

Jiaju Zhou · Guirong Xie · Xinjian Yan

# Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities,  
Natural Sources and Applications

## Vol.5

Isolated Compounds T-Z  
References, TCM Plants and Congeners

 Springer

Encyclopedia of Traditional Chinese Medicines  
Molecular Structures, Pharmacological Activities,  
Natural Sources and Applications



Jiaju Zhou • Guirong Xie • Xinjian Yan

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Traditional Chinese Medicines  
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Vol. 5: Isolated Compounds T-Z

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# Encyclopedia of Traditional Chinese Medicines

Molecular Structures, Pharmacological Activities, Natural Sources and Applications

## Contents

Preface .....	vii
Introduction .....	ix
How to Use This Book .....	xix
Abbreviations and Symbols .....	xxv
Cancer Cell Codes .....	xxix
<b>Volume 1 Isolated Compounds (A-C)</b>	
A (entries 1~2071) .....	3
B (entries 2072~2835) .....	241
C (entries 2836~4594) .....	327
<b>Volume 2 Isolated Compounds (D-G)</b>	
D (entries 4595~6656) .....	3
E (entries 6657~7700) .....	225
F (entries 7701~8043) .....	343
G (entries 8044~9185) .....	383
<b>Volume 3 Isolated Compounds (H-M)</b>	
H (entries 9186~10927) .....	3
I (entries 10928~11806) .....	187
J (entries 11807~11990) .....	283
K (entries 11991~12399) .....	308
L (entries 12400~13280) .....	356
M (entries 13281~15227) .....	459
<b>Volume 4 Isolated Compounds (N-S)</b>	
N (entries 15228~15880) .....	3
O (entries 15881~16484) .....	73
P (entries 16485~18281) .....	142
Q (entries 18282~18455) .....	350
R (entries 18456~19091) .....	375
S (entries 19092~20574) .....	453

**Volume 5 Isolated Compounds (T-Z)**

T (entries 20575~22170) .....	3
U (entries 22171~22301) .....	184
V (entries 22302~22625) .....	201
W (entries 22626~22742) .....	238
X (entries 22743~22856) .....	254
Y (entries 22857~22960) .....	270
Z (entries 22961~23033) .....	284
References for Isolated Compounds .....	293
TCM Plants and Congeners (entries T0001~T6926) .....	347

**Volume 6 Indexes**

Compound Pharmacological Activity Index .....	3
Compound Molecular Formula Index .....	65
Compound Name Synonym Index .....	285
TCM Plant English Name Index .....	347
TCM Plant PIN-YIN/Chinese Name Index .....	458
TCM Plant Traditional Effect Index .....	580
TCM Plant Traditional Indication Index .....	624

# Preface

A significant preoccupation of modern traditional Chinese medicine (TCM) research has been the characterization of TCM components, such as pertain to their isolation, purification, structural determination, and pharmacological activity. As a reference tool, this *Encyclopedia of Traditional Chinese Medicines* presents a comprehensive and integrative work on surveying TCM plant sources, chemistry, pharmacology and medicinal effects and indications in a systematic manner.

This encyclopedia is an integrated achievement of a long-term TCM research project by the authors at the Chinese Academy of Sciences<sup>[1-4]</sup>, involving three parts and now organized in six volumes:

Part I (Volumes 1 to 4 and part of Volume 5) provides structural, physical, pharmacological and natural source information on 23,033 isolated chemicals captured from 5,535 references, basically up to year 2005. A great deal of effort has been paid on overlapping or contradictory data in order to provide readers with an accurate and reliable resource.

Part II (last part of Volume 5) describes 6,926 TCM plants and congeners, together with their medicinal effects and indications. The contents of Part I and Part II are all organized in alphabetical order.

Part III (Volume 6) includes seven indexes produced by a computer program. Based on the indexes, users can readily find concerned contents in multiple ways.

With this encyclopedia, the authors attempt to provide a bridge for the communication between the TCM system and Western medicinal systems, and a platform with multiple-subjects in support of research and development of the health sciences.

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Sep, 2010, Beijing

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# Introduction

This encyclopedia mainly consists two parts - compound and plant. Its core content is the structural and pharmacological information of 23,033 phytochemicals, as well as medical effects and indications of 6,926 plant species from which the phytochemicals were isolated. The compounds, i.e. phytochemicals, are ordered alphabetically, and their ordinal numbers are used as compound unique codes. The plant species are coded from T0001 to T6926. With this code system, the complicated “many to many” relationship between compounds and plants can be clearly expressed, and any individual compound or plant could be located easily in this 6 volumes book.

## 1. Compound Entry

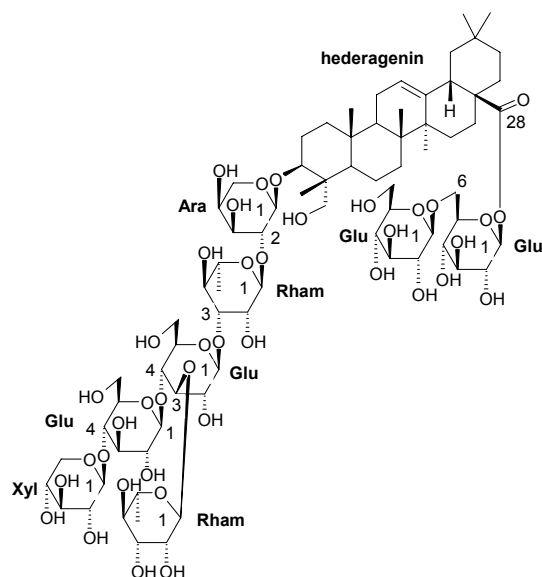
**Format of Compound Entry.** A compound entry starts with a title line, in which there are two items: the compound’s unique code and main name. Following the title line is the compound physical, pharmacological and source information, which may include 8 items:

**Title line (code number, main name)**

- A. Synonyms of the compound (if any);
- B. CASRN number (if any);
- C. Formula (relative molecular mass);
- D. Physicochemical properties;
- E. Pharmacological data (if any);
- F. Source(s);
- G. Reference(s);
- H. Graphic structure.

**Chemical Names and Synonyms.** Generally, a compound may have one scientific name and several trivial names. In the encyclopedia, based on original articles, we select one name as the “main name” (appeared at the title line of each compound entry), and use it to alphabetically order the 23,033 compounds in the first 5 volumes. The main name is either a scientific name or a trivial name. All of other names of each compound, if any, are presented after the title line.

**Stereochemistry of Chemical Structure.** We protracted all compound structures down to atom-bond level including complicated glycosides, with stereo-chemical information based on the data in the original papers. For example, the structure with full stereochemistry of compound 22,834 (isolated from CHUAN XU DUAN *Dipsacus asperoides*) is:



3-*O*-[ $\beta$ -*D*-Xylopyranosyl(1 $\rightarrow$ 4)]- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 4)]  
 [ $\alpha$ -*L*-rhamnopyranosyl(1 $\rightarrow$ 3)]- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 3)-  
 $\alpha$ -*L*-rhamnopyranosyl(1 $\rightarrow$ 2)- $\alpha$ -*L*-arabinopyranosyl hederagenin-  
 28-*O*- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranoside

**Normalization of Pharmacological Data.** More than 8,000 TCM components in this encyclopedia have a variety of pharmacological data, which are valuable not only for the study of TCM, but also for the development of Western medicine. Because different expressions are used for the same kind of data in different articles, we have to define and normalize thousands pharmacological terms, so that the data could be expressed by a unified way, and be easily understood by readers.

The pharmacological terms in the encyclopedia are presented by a multi-layered structure. In the top layer, there are around 20 types of pharmacological activity terms, they are cytotoxic (*in vitro* anticancer), antineoplastic (*in vivo* anticancer), antibacterial, antifungal, antiviral, anti-HIV, anti-inflammatory, antioxidant, antimalarial, enzyme inhibitors, NO production inhibitors, cardiovascular activity, smooth muscle relaxant and stimulant, toxin and medium lethal dose LD<sub>50</sub>, and so forth. For each term there is a regulation about how to describe related pharmacological data. The following is an example:

**Term name** (*in vitro/in vivo*,  
 target cell **1**, quantitative data,  
 control Compound, control's data;  
 target cell **2**, quantitative data,  
 control Compound, control's data;  
 target cell **3**, quantitative data,  
 control Compound, control's data;  
 terse description of related mechanism if any).

Under the subtitle “Pharm:” of compound entry 248 (17-Acetoxyabda-7,12(*E*),14-triene), a set of bio-data is presented as follows:

Pharm: **Cytotoxic** (*in vitro*,  
 BT474 human galactophore cancer cell,  $IC_{50} = 4.7\mu\text{g/mL}$ ,  
 control Doxorubicin hydrochloride,  $IC_{50} = 0.08\mu\text{g/mL}$ ;  
 CHAGO human undifferentiated lung cancer cell,  $IC_{50} = 5.7\mu\text{g/mL}$ ,  
 control Doxorubicin hydrochloride,  $IC_{50} = 2.3\mu\text{g/mL}$ ;  
 HepG2 human liver cancer cell,  $IC_{50} = 6.5\mu\text{g/mL}$ ,  
 control Doxorubicin hydrochloride,  $IC_{50} = 0.9\mu\text{g/mL}$ ;  
 Kato3 human gastric cancer cell,  $IC_{50} = 5.3\mu\text{g/mL}$ ,  
 control Doxorubicin hydrochloride,  $IC_{50} = 1.7\mu\text{g/mL}$ ;  
 SW620 human colorectal adenocarcinoma cell,  $IC_{50} = 5.6\mu\text{g/mL}$ ,  
 control Doxorubicin hydrochloride,  $IC_{50} = 1.1\mu\text{g/mL}$ ).

In order to standardize abbreviations of cancer cells, such as BT474, CHAGO, etc., we defined and used 270 cancer cell codes (CCC) in the encyclopedia. For explanations of these codes, please see “Cancer Cell Codes in the Pharmacological Models” in Volume 1 of the encyclopedia.

By means of the formatted and structuralized methods, we normalized expressions of most pharmacological data appeared in the encyclopedia. For complete information of all 3367 normalized pharmacological activity terms, please see “Compound Pharmacological Activities Index” in Volume 6.

## 2. Plant Entry

**One Species One Entry.** Conventionally, a TCM name may include more than one plant species that have the same medical functions; therefore, a plant may not have an independent TCM entry and may be described under a TCM name. In this book, modern botany classification regulation is adopted and each plant species has an independent entry.

For example, traditional Chinese medicine DAN SHEN includes three species. They are equivalent in both effects and indications in TCM practice. In this encyclopedia, we defined three plant entries for each one of them.

T5680 *Salvia miltiorrhiza* (Lamiaceae); DAN SHEN; Danshen;  
 T5681 *Salvia miltiorrhiza* f. *alba* (Lamiaceae); BAI HUA DAN SHEN; Whiteflower Danshen;  
 T5688 *Salvia przewalskii* (Lamiaceae); GAN XI SHU WEI CAO; Przewalsk Sage.

With this method, we are able to smoothly link TCM information with that of modern botany.

**Simplified Latin Name.** For each TCM plant or TCM congener, four names are used in the encyclopedia. They are Latin name, English name, PIN-YIN name and Chinese

name, while the Chinese name only appears in TCM Plants PIN-YIN/Chinese Names Index” not in the main part of the book. For plant Latin name (e.g. scientific name), we use a simplified nomenclature, in which the nomenclator(s) information is not included. For example the Latin name of Chinese Angelica (DANG GUI) in the encyclopedia is “*Angelica sinensis*”, not “*Angelica sinensis* (Oliv.) Diels”.

**Family Name.** According to the “International Code of Botanical Nomenclature” (2007), the following eight authoritative family names are used in the encyclopedia. The family names of long usage, which are not used in are the encyclopedia, indicated in parentheses:

Apiaceae (Umbelliferae);  
 Arecaceae (Palmae);  
 Asteraceae (Compositae);  
 Brassicaceae (Cruciferae);  
 Clusiaceae (Guttiferae);  
 Fabaceae (Leguminosae);  
 Lamiaceae (Labiatae) and  
 Poaceae (Gramineae).

**PIN-YIN Name and Chinese Name.** A simplified PIN-YIN name system is used in the encyclopedia. That is not to include the four-tone mark. However, there are exceptions. Among the thousand PIN-YIN names in the book, there are seven confusing cases. For each mistakable name, a superscript is attached to the name for indicating its four-tone in order to distinguish it from other plant species. For example: BAI MAO GEN<sup>(1)</sup> and BAI MAO GEN<sup>(4)</sup> are two different TCM plants:

T3416 *Imperata cylindrica* var. *major* (Poaceae); BAI MAO GEN<sup>(1)</sup>; Lalang Grass Rhizome.  
 T3309 *Hydrastis canadensis* (Ranunculaceae); BAI MAO GEN<sup>(4)</sup>; Golden-seal.

Other six cases are:

T1449 *Cirsium japonicum* (Asteraceae); DA JI<sup>(4)</sup>; Japanese Thistle.  
 T2608 *Euphorbia pekinensis* (Euphorbiaceae); DA JI<sup>(3)</sup>; Peking Euphorbia.  
 T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*] (Asteraceae); MU<sup>(3)</sup> JU; Mayweed.  
 T0197 *Aegle marmelos* (Rutaceae); MU<sup>(4)</sup> JU; Sepiaria.  
 T1039 *Bruguiera gymnorrhiza* (Rhizophoraceae); MU LAN<sup>(3)</sup>; Common Bruguiera.  
 T3423 *Indigofera tinctoria* (Fabaceae); MU LAN<sup>(2)</sup>; True Indigo.  
 T6798 *Vitis vinifera* (Vitaceae); PU<sup>(2)</sup> TAO; European Grape.  
 T6267 *Syzygium jambos* (Myrtaceae); PU<sup>(3)</sup> TAO; Roseapple.  
 T2107 *Dendrobium nobile* (Orchidaceae); SHI HU<sup>(4)</sup>; Noble Dendrobium.  
 T2646 *Evodia rutaecarpa* var. *officinalis* (Rutaceae); SHI HU<sup>(3)</sup>; Official Evodia.  
 T1221 *Caryopteris divaricata* (Verbenaceae); YOU<sup>(2)</sup>; Divaricate Bluebeard.  
 T1478 *Citrus grandis* (Rutaceae); YOU<sup>(4)</sup>; Pummelo.

**Translation of TCM Effects Terms.** In the Volume 5 of the encyclopedia, 6,926 TCM Plant entries list in alphabetical order of *Latin names*, including 2,923 original TCM plants (including few of animals)<sup>[R01-R04]</sup> and 4,003 congeners (including a few of non-TCM medicinal plants). For each TCM plant, two most important features are traditional TCM effects and indications.

For preparing this encyclopedia, one of the greatest challenges is how to correctly translate each TCM term into correspondent English, so that Western readers are able to understand the true meaning of the content in the book. After comparing several translation systems, we decided to use Wiseman's terminological system<sup>[R05-R07]</sup> for this book.

Wiseman's system obeys two most important principles: (1). The English-language terms should be faithful to the original concepts in traditional Chinese medicine. (2). The English-language TCM terminology should be flexible enough to allow modifications and extensions so that derivative effects can be described by a structuralized manner. For instance, the term "quicken blood" describes a general effect meaning "activating blood flow" or "promoting blood circulation". Elaboration of this term produces "quicken blood and transform stasis", "quicken blood and relieve pain", "quicken blood and regulate menstruation", and so on. The following illustrations are an example of the structuralized expressions related to the term "quicken blood":

quicken blood and disinhibit water  
 quicken blood and dispel stasis  
 quicken blood and dispel wind  
 quicken blood and disperse swelling  
 quicken blood and disperse welling abscess  
 quicken blood and dissipate binds  
 quicken blood and dissipate stasis  
 quicken blood and free menstruation  
 quicken blood and free network vessels  
 quicken blood and free vessels  
 quicken blood and joint bones  
 quicken blood and move *qi*  
 quicken blood and move stasis  
 quicken blood and nourish heart  
 quicken blood and promote milk  
 quicken blood and quiet spirit  
 quicken blood and regulate menstruation  
 quicken blood and relieve pain  
 quicken blood and resolve toxin  
 quicken blood and settle pain  
 quicken blood and soothe sinews  
 quicken blood and stanch bleeding  
 quicken blood and strengthen sinews  
 quicken blood and transform stasis  
 quicken blood and vessels

**Translation of TCM Indications Terms.** Based on Wiseman's terminological system, "Chinese-English Dictionary of Traditional Chinese Medicine" compiled by Guangzhen Gao *et al.*<sup>[R08]</sup>, "An English-Chinese Medical Dictionary, Second Edition" compiled by Weiyi Chen *et al.*<sup>[R09]</sup>, and other reference dictionaries, we defined over 3,800 standard indication terms for translating TCM indications terms from Chinese to English. Among the 3,800 terms, 2,526 terms are actually used in the encyclopedia, in which 85% terms are traditional TCM terms and the rest 15% are common modern medicinal terms. Some typical examples of traditional TCM indication terms are as follows:

*yin* vacuity internal heat  
*yin* vacuity lung dryness  
*yin* vacuity tidal fever  
 chest impediment  
 chest impediment and heart pain  
 chest impediment and heart pain over back  
 chest oppression and pain  
 chest oppression with breathe hard  
 distention pain in rib-side  
 distention pain in stomach duct  
 distention pain in stomach duct and abdomen  
 externally contracted summer heat-damp  
 externally contracted wind evil  
 externally contracted wind-cold  
 externally contracted wind-heat  
 knocks and falls  
 sores  
 sores clove boil  
 swelling of sores and boils  
 sore scab and lichen  
 toxin swelling of sores

In summary, this encyclopedia provides a collection of more than 23,000 TCM chemical components isolated from natural resources and a large number of pharmacological activity data of these components. It may be used not only as a handbook to look for structures and pharmacological activities of TCM chemical components and source plant information, but also a fundamental platform for studying TCM with a systematic and integrative approach.

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# How to Use the Books

## 1. Three Kinds of “Many to Many” Relationships

To help readers effectively search and use of the books, authors strongly suggest readers being familiar with the structure of the encyclopedia and certain important linkers or pointers between different data sets.

Firstly, in order to avoid confusing cases, please keep in mind the following three features of the book:

(a) In the encyclopedia, all of pharmacological data belong to compounds, not to plants. In other words, the encyclopedia doesn't include plants' pharmacological data.

(b) All effect and indication terms belong to TCM plants, not to compounds. And almost all of effect terms as well as 85% indication terms are pure Chinese traditional concepts.

(c) In the encyclopedia, there are three kinds of “many to many” relationships: (i), compounds to plants, which is the most important relationship. (ii), pharmacological data to compounds in the molecular level only. (iii), plants to effects/indications in the species level.

Pharm. data ↔ Compound 1		Plant T0001 ↔ effects, indications
Pharm. data ↔ Compound 2		Plant T0002 ↔ effects, indications
Pharm. data ↔ Compound 3	↔	Plant T0003 ↔ effects, indications
.....		.....
Pharm. data ↔ Compound 23032		Plant T6925 ↔ effects, indications
Pharm. data ↔ Compound 23033		Plant T6926 ↔ effects, indications
(Molecular level)		(Species level)

### Sketch Map of Three Important “Many to Many” Relationships

## 2. Seven Useful Indexes

In Volume 6, there are seven indexes for data searching.

The indexes 1-3 are tools to search compounds from different starting-points:

**Index 1** (Compound Pharmacological Activity Index) links pharmacological terms

with related compound codes. For example, if there is a question as:

“Which compounds have *in vitro* cytotoxic activity against human breast cancer cells?”

From the index 1, the answer can easily be obtained as follows:

Cytotoxic, BC hmn breast cancer cells 24, 349, 526, 2244, 3416, 3429, 3708, 4775, 5095, 6759, 6759, 6759, 12453, 12454, 15494, 15495, 18515, 20671.

Cytotoxic, BC-1 hmn breast cancer cells 1277, 2260, 5064, 5327, 6759, 6759, 8220, 8221, 8222, 8235, 10250, 10297, 10511, 11353, 13489, 13490, 13491, 13492, 13493, 13494, 13495, 15919, 17008, 18866, 20809.

Cytotoxic, BCA-1 hmn breast cancer cells 6759, 13468, 13469, 13470, 15739.

Cytotoxic, Bcap37 hmn breast cancer cells 843, 11392, 13123, 16183, 17717, 18499.

Then, from compounds code numbers, one can get detailed data for each compound.

**Index 2** (Compound Molecular Formula Index) connects a molecular formula to its all isomers. For example, there are five isomers with formula  $C_{45}H_{76}O_{18}$ :

$C_{45}H_{76}O_{18}$

Abutiloside F, 40

Asp-IV, 1905

Asp-V, 1906

Trigoneoside IIIa, 21669

Trigoneoside IIIb, 21670

**Index 3** (Compound Synonym Index) is useful for searching a compound from a known name. A strong suggestion to readers is that when searching a compound from a known name, to search twice probably is necessary: firstly from entry title in the encyclopedia text and then from the index 3.

The indexes 4–7 are tools to search TCM plants:

**Index 4** (TCM Plant English Name Index) links a Plant English Name to other names of the plant, for example:

Chinese Angelica = T0495 *Angelica sinensis* = DANG GUI

Siberian Phlojodicarpus = T4804 *Phlojodicarpus sibiricus* = ZHANG GUO QIN

Dahurian Angelica = T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] = BAI ZHI

Gigantic Angelica = T0483 *Angelica gigas* = CHAO XIAN DANG GUI

Narrowleaf Angelica = T0476 *Angelica anomala* = XIA YE DANG GUI

**Index 5** (TCM Plant PIN-YIN and Chinese Name Index) links PIN-YIN name to Latin name and/or English name, for example:

BAI HUA QIAN HU = T4768 *Peucedanum praeruptorum* = Whiteflower Hogfennel

BAI HUA SHE GAN = T3457 *Iris dichotoma* = Vesper Iris

BAI HUA SHE SHE CAO = T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] = Spreading Hedyitis

**Index 6** (TCM Plant Traditional Effects Index) and **Index 7** (TCM Plant Traditional Indications Index) connect specific effect and/or indication to related plants.

For example, to search all plants with effect “nourish heart and quiet spirit”, the result is:

**nourish heart and quiet spirit:**

T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*],  
 T1292 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*],  
 T1381 *Choerospondias axillaris*,  
 T4194 *Menyanthes trifoliata*,  
 T4400 *Nelumbo nucifera*,  
 T4902 *Pimpinella thelungiana*,  
 T5108 *Polygonum multiflorum*,  
 T5497 *Rhodiola kirilowii*,  
 T5701 *Salvia yunnanensis*.

If searching all plants with indication “angina pectoris” (a modern medicinal term), “externally contracted wind-cold” (a TCM term), and “externally contracted wind-heat” (a TCM term), you will obtain the following results:

**angina pectoris:** T1215 *Carthamus tinctorius*, T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1775 *Crataegus pinnatifida*, T1778 *Crataegus pinnatifida* var. *major*, T2274 *Dryobalanops aromatica*, T2389 *Epimedium acuminatum*, T2390 *Epimedium brevicornum*, T2392 *Epimedium davidii*, T2394 *Epimedium elongatum*, T2398 *Epimedium koreanum*, T2401 *Epimedium pubescens*, T2402 *Epimedium sagittatum*, T2404 *Epimedium sutchuenense*, T2406 *Epimedium wushanense*, T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*], T2848 *Ganoderma lucidum*, T2964 *Ginkgo biloba*, T3388 *Ilex chinensis* [Syn. *Ilex purpurea*], T3396 *Ilex pubescens*, T3397 *Ilex pubescens* var. *glaber*, T3875 *Liriope spicata* var. *prolifera*, T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*], T3926 *Loropetalum chinense*, T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*, T4507 *Ophiopogon japonicus*, T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], T4953 *Piper longum*, T5312 *Pueraria edulis*, T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], T5316 *Pueraria omeiensis*, T5318 *Pueraria phaseoloides*, T5320 *Pueraria thomsonii*, T5680 *Salvia miltiorrhiza*, T5681 *Salvia miltiorrhiza* f. *alba*, T5688 *Salvia przewalskii*, T6510 *Trichosanthes kirilowii*, T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], T6584 *Typha angustata*, T6585 *Typha angustifolia*, T6587 *Typha latifolia*.

**externally contracted wind-cold:** T4039 *Magnolia grandiflora*, T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], T4446 *Notopterygium incisum*, T4956 *Piper mullesua*, T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*].

**externally contracted wind-heat:** T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*], T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], T1933 *Cyclea sutchuenensis*, T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], T3819 *Ligusticum brachylobum*, T4413 *Nepeta cataria*, T4761 *Peucedanum longshengens*, T4768 *Peucedanum praeruptorum*, T4769 *Peucedanum rubricaulis*, T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*], T6793 *Vitex trifolia*.

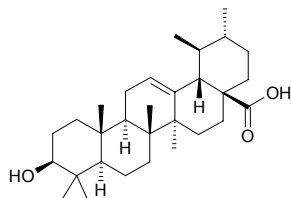
### 3. Data Survey Example of Compound Entry

At last, we would like to take Ursolic acid (compound code 22270 in the books) as a data survey example. Under this compound there are a quite number of data as follows:

**22270 Ursolic acid**

$\beta$ -Ursolic acid [77-52-1] C<sub>30</sub>H<sub>48</sub>O<sub>3</sub> (456.72).

White solid powder (chloroform–methanol), mp 298~294°C, 265~267°C.

**Pharm: (27 items)**

- Cytotoxic** (KB, ED<sub>50</sub> > 25µg/mL, control Doxorubicin, ED<sub>50</sub> = 0.12µg/mL; Hep3B, ED<sub>50</sub> > 25µg/mL, control Doxorubicin, ED<sub>50</sub> = 0.14µg/mL; Colon205, ED<sub>50</sub> > 25µg/mL, control Doxorubicin, ED<sub>50</sub> = 0.10µg/mL; HeLa, ED<sub>50</sub> > 25µg/mL, control Doxorubicin, ED<sub>50</sub> = 0.11µg/mL)<sup>[4369]</sup>;
- cytotoxic** (*in vitro*, HONE-1 cell, IC<sub>50</sub> = (8.8±1.5)µmol/L, control Etoposide, IC<sub>50</sub> = (0.5±0.2)µmol/L, *cis*-Platin, IC<sub>50</sub> = (3.2±0.5)µmol/L; KB cell, IC<sub>50</sub> = (8.2±2.7)µmol/L, Etoposide, IC<sub>50</sub> = (0.9±0.3)µmol/L, *cis*-Platin, IC<sub>50</sub> = (4.4±0.9)µmol/L; HT29 cell, IC<sub>50</sub> = (4.7±1.5)µmol/L, Etoposide, IC<sub>50</sub> = (2.4±0.5)µmol/L, *cis*-Platin, IC<sub>50</sub> = (5.7±1.1)µmol/L)<sup>[5254]</sup>;
- antineoplastic** (liver cancer cells *in vitro*, mus ascites carcinoma *in vivo*, life was prolonged);
- antibacterial** (*Escherichia coli*, IZD = 13~15mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10~12mm, control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 13~15mm; control Chloramphenicol, IZD = 16~20mm, control DMSO (4%), IZD < 10mm)<sup>[5315]</sup>;
- antibacterial** (*Staphylococcus* spp. *in vitro*, MIC = 300µg/mL, gram-positive bacteria *in vitro*, MIC = 50~400µg/mL, gram-negative bacteria *in vitro*, MIC = 200~800µg/mL, microzyme *in vitro*, MIC = 100~700µg/mL);
- antitubercular** (*Mycobacterium tuberculosis*, MIC = 41.9µg/mL, cytotoxic, Vero cells, IC<sub>50</sub> = 46.5µg/mL, SI (IC<sub>50</sub>/MIC) = 1.11, positive control Rifampin, MIC = 0.03µg/mL, IC<sub>50</sub> = 98.3µg/mL, SI = 3277)<sup>[4986]</sup>;
- anticonvulsant** (induced by corazol);
- anti-inflammatory** (rat, induced by embedding woolball, 12.5mg/(kg·d) ip, 7 days, effective);
- anti-inflammatory** (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE<sub>2</sub> release)<sup>[5016]</sup>;
- COX-2 enzyme selective inhibitor** (mean IC<sub>50</sub> of isomers = 130µmol/L)<sup>[4415]</sup>;
- COX-2 enzyme inhibitor** (PMA-treated hmn mammary and oral epithelial cells, molecular mechanisms is mediated by a cAMP response element in the COX-2 promoter, associated with inhibition of protein kinases)<sup>[4415]</sup>;
- antipyretic** (clearly reduces normal body temperature of rat);
- reduces serum transaminase** (animal, 100mg/kg);
- antitrypanosomal** (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2µmol/L, control Gentian violet, MLC = 6.2µmol/L)<sup>[2579]</sup>;
- mucin release stimulator** (acts directly on airway mucin-secreting cells, increased mucin release (40~50)% above control at the highest concentrations 0.00001~0.001mol/L, possible use to treatment of chronic airway diseases)<sup>[4084]</sup>;
- platelet aggregation inhibitor** (2~5mg/mL collagen-induced, IC<sub>50</sub> = (511±4)µmol/L, control ASA, IC<sub>50</sub> = (420±3)µmol/L; 1~4µmol/L epinephrine-induced with 0.8~1.0mg/mL collagen, IC<sub>50</sub> = (82.6±2.8)µmol/L, ASA, IC<sub>50</sub> = (53.0±4.5)µmol/L; 10~40µmol/L Sodium arachidonate-induced with 0.8~1.0mg/mL collagen, IC<sub>50</sub> =

(669±12)μmol/L, ASA, IC<sub>50</sub> = (66.0±2.1)μmol/L; 1~5μmol/L PGH<sub>2</sub>/TXA<sub>2</sub> receptor agonist U46619-induced with 0.8~1.0mg/mL collagen, IC<sub>50</sub> > 1000μmol/L, ASA, IC<sub>50</sub> = (340±12)μmol/L)<sup>[4994]</sup>;

**tissue factor inhibitor inactive**<sup>[5387]</sup>;

**antirheumatic**<sup>[5341]</sup>;

**anti-diabetic**<sup>[5341]</sup>;

**antiulcer**<sup>[5341]</sup>;

**hypolipidemic**<sup>[5341]</sup>;

**anti-atherosclerotic**<sup>[5341]</sup>;

**anti-HIV**<sup>[5341]</sup>;

**TGF-β1 antagonist** (inhibits the binding of <sup>125</sup>I-TGF-β1 to its receptor in Balb/c 3T3 cell, IC<sub>50</sub> = (6.9±0.8)μmol/L, suggests TGF-β1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)<sup>[5496]</sup>;

**glucocorticoid** (enhances glycogen in liver, reduces glycogen in heart and striated muscles);

**LD<sub>50</sub>** (mus, ip) = 680mg/kg.

### Sources: (52 species)

BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (whole herb: mean content of 16 origins = 0.211%)<sup>[5508]</sup>;

BI LU GOU TENG *Uncaria tomentosa*,

CHE QIAN *Plantago asiatica* (whole herb: content scope = 0.28%~2.32%, mean content = 0.97%)<sup>[5508]</sup>;

CHI NAN *Syzygium buxifolium*,

CHONG YA YAO *Isodon ternifolius*,

CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*],

DA CHE QIAN *Plantago major*,

DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.016%)<sup>[5508]</sup>,

DAN SHEN *Salvia miltiorrhiza*,

DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0064%dw),

DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.414%)<sup>[5508]</sup>; leaf: mean content = 0.573%)<sup>[5508]</sup>;

DU ZHONG *Eucommia ulmoides*,

DUAN TING SHAN MAI DONG *Liriope muscari* (tuber),

GOU GU YE *Ilex cornuta* (leaf: mean content = 0.96%)<sup>[5508]</sup>,

GUANG JING QIAN CAO *Rubia wallichiana* (stem),

HONG HUA LU TI CAO *Pyrola incarnata* (whole herb: content = 2.06%)<sup>[5508]</sup>,

HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content = 0.455%),

JIAN YE TOU WU GEN *Ligularia sagitta*,

LIAN QIAN CAO *Glechoma lungituba*,

LIAN QIAO *Forsythia suspensa*,

LIU QIU SHE GEN CAO *Ophiorrhiza liukiensis* (whole herb),

MA BIAN CAO *Verbena officinalis* (whole herb: mean content of 5 batch samples = 0.227%)<sup>[5508]</sup>,

MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00012%dw),

MAO PAO TONG *Paulownia tomentosa*,

MAO XU CAO *Clerodendranthus spicatus*,

MU GUA *Chaenomeles sinensis*,

NV ZHEN ZI *Ligustrum lucidum*,

PI PA YE *Eriobotrya japonica* (dried leaf: mean content = 0.677%)<sup>[5508]</sup>,

PI PA YE *Eriobotrya japonica* (stem and leaf),

PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.276%)<sup>[5508]</sup>,

RI BEN LU TI CAO *Pyrola japonica*,



RONG SHU *Ficus microcarpa* (aerial root),  
 SHAN DI XIANG CHA CAI *Isodon oresbia*,  
 SHAN LI HONG *Crataegus pinnatifida* var. *major*,  
 SHAN ZHA *Crataegus pinnatifida* (fruit: content scope = 0.31%~0.56%)<sup>[5501]</sup>,  
 SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: content  
 scope = 0.24%~0.32%)<sup>[5501]</sup>, mean content = 0.263%)<sup>[5508]</sup>,  
 SHI NAN *Photinia serrulata* (leaf: mean content = 1.50%)<sup>[5508]</sup>,  
 SHI SHENG BIAN LEI *Gentianopsis paludosa*,  
 SHI YE *Diospyros kaki* (dried leaf: mean content = 0.784%)<sup>[5508]</sup>,  
 SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root),  
 SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.030%)<sup>[5508]</sup>,  
 SUO YANG *Cynomorium songaricum* (fleshy stem: content = 0.78%)<sup>[5508]</sup>,  
 WEI LING CAI *Potentilla chinensis*,  
 WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit),  
 XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.780%)<sup>[5508]</sup>,  
 YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%),  
 YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 3 origins =  
 0.399%)<sup>[5508]</sup>,  
 YI LANG QING LAN *Dracocephalum kotschyi*,  
 ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content =  
 0.041%)<sup>[5508]</sup>,  
 ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 3.00%)<sup>[5508]</sup>,  
*Cussonia bancoensis*,  
 Occurs in many plants.

**Ref:** 4, 367, 428, 454, 501, 592, 595, 600, 658, 660, 2579, 3005, 3061, 4084, 4163, 4369,  
 4415, 4527, 4767, 4772, 4986, 4994, 5016, 5254, 5315, 5382, 5387, 5341, 5496, 5501,  
 5508.

# Abbreviations and Symbols

12(S)-HETE	12(S)-Hydroxy-5,8,10,14-EicosaTetraEnoic acid	cAMP-PDE	cAMP-phosphodiesterase
<sup>125</sup> I-TGF- $\beta$ 1	<sup>125</sup> I-Transforming Growth Factor- $\beta$ 1	CAPE	Caffeic Acid Phenethyl Ester
5-FU	5-FluoroUracil	CB	cytochalasin B
5-HT	5-HydroxyTryptamine (serotonin)	CC	macrophage inflammatory protein (MIP-1 $\beta$ ), monocyte chemotactic protein (MCP-2), and C lymphotactin (ltn) (a chemokine family)
95%FL (=CI <sub>95</sub> )	95% Fiducial Limits (=95% Confidence Interval)	CC <sub>0</sub>	Minimum cytotoxic concentration
AA	Arachidonic Acid	CC <sub>50</sub>	IC <sub>50</sub> of cytotoxicity (concentration of the 50% cytotoxic effect)
AAPH	2,2'-Azo-bis-(2-AmidinoPropane)-diHydrochloride	CCR1	chemokine receptor 1
ABTS <sup>+</sup>	2,2'-Azino-Bis-(3-ethylbenzThiazoline 6-Sulphonic acid), radical	CD	concentration required to double enzyme (induction) activity
ACAT	Acyl-CoA Cholesterol acyltransferase	CD	Concentration required to double quinone reductase (induction) activity
ACE	Angiotensin Converting Enzyme	CD <sub>50</sub>	medium Convulsive Dose
Ach	Acetylcholine	cGMP	cyclic guanosine monophosphate
AChE	Acetylcholinesterase	cGMP-PDE	cGMP-phosphodiesterase
ACTH	AdrenoCorticoTropic Hormone	CGN	<i>cis</i> -Golgi network
AD	Alzheimer's disease	CGRP	Calcitonin gene-related peptide
ADM	adriamycin	CHO	Chinese hamster ovarian
ADP	adenosine diphosphate	CI	Chemopreventive index (=IC <sub>50</sub> /CD)
AG	aminoguanidine	CI <sub>95</sub> (=95%FL)	95% Confidence Interval (=95% Fiducial Limits)
AggRt	aggregation rate	CIC	complete inhibiting concentration
AIDS	acquired immunodeficiency syndrome	CIMC	complete inhibiting minimum concentration
ALS	amyotrophic lateral sclerosis	CINC-1	cytokine-induced neutrophil chemoattractant 1
ALT	alanine aminotransferase	CMV	Cytomegalovirus
AMP	adenosine monophosphate	CNQX	6-Cyano-7-nitroquinoxaline-2,3-dione (non-NMDA receptor antagonist)
AMV	avian myeloblastosis virus	CNS	central nervous system
AP	angina pectoris	ConA	concanavalin A
AP-1	activator protein-1	COX	cyclooxygenase
APN	Aminopeptidase N	COX-1	cyclooxygenase-1
APV	<i>dl</i> -2-Amino-5-phosphonovaleric acid (a competitive antagonist of the NMDA receptor)	COX-2	cyclooxygenase-2
aq.	aqueous solution	CPT	camptothecin
ASA	AcetylSalicylic Acid	CRF	corticotrophin releasing factor
AST	aspartate transaminase; aspartate aminotransferase	CRH-1	corticotrophin releasing hormone-1
AT-III	Antithrombase-III	CRP	C-reactive protein
ATPase	Adenosine triphosphatase	CV-3988	<i>rac</i> -3-( <i>N</i> -octadecylcarbomoyloxy)-2-methoxypropyl 2-thiazoliethyl phosphate
AZT	3'-azido-3'-deoxythymidine	CVS	cardiac vascular system
BACE1	$\beta$ -Secretase	CXC	Stromal cell-derived factor (SDF)-1 $\alpha$ and IL-8 (a chemokine)
BChE	Butyrylcholinesterase	CYP1A	Cytochrome P450 1A
bFGF	basic Fibroblast Growth Factor	CYP2D6	Cytochrome P450 2D6
BHA	Butylated HydroxyAnisole; 3- <i>tert</i> -Butyl-4-HydroxyAnisole	CYP3A4	Cytochrome P450 3A4
BHT	Butylated HydroxyToluene	d	day
bid	bis in die (Latin)	DCFH	2',7'-dichlorodihydrofluorescein dye
BLM	bleomycin	DDDP	DNA-dependent DNA polymerase
bp	boiling point	dec	decomposition
BST	Brine Shrimp lethality bioassay = Brine Shrimp Test	<i>D</i> -GalN	<i>D</i> -galactosamine
<i>c</i>	concentration		
C5a	complement 5a		
cAMP	cyclic adenosine monophosphate		

DGAT	Diacylglycerol acyltransferase	GSH	Glutathione; <i>N</i> -( <i>N</i> - <i>L</i> - $\gamma$ -Glutamyl- <i>L</i> -cysteinyl)glycine
dil.	dilute	GTP	Guanosine TriPhosphate
DIZ	Diameter of Inhibitory Zone	GVHR	Graft-Versus-HostReaction
DMBA	9,10-dimethyl-1,2-benzanthracene (carcinogen); 7,12-dimethylbenz[ <i>a</i> ]anthracene (carcinogen)	h	hour
DMDP	(2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i> )-2,5-DihydroxyMethyl-3,4-Dihydroxy-Pyrrolidine	HAD	hmn immunodeficiency virus associated dementia
DMSO	DiMethyl SulphOxide	HBeAg	hmn type B Hepatitis, e Antigen
DNA	deoxyribonucleic acid	HBsAg	hmn type B Hepatitis, Surface Antigen
DNJ	1-Deoxynojirimucin (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	HBV	Hepatitis B Virus
DOX	doxorubicin	HC <sub>50</sub>	medium Hemolytic Concentration
DPI	Diphenyleneiodonium	HCoV-229E	hmn coronavirus strain 229E
DPPH	1,1-DiPhenyl-2-PicrylHydrazyl free radical	HD	Huntington's disease
DS8000	Dextran sulphate, prepared from average Mr 8000	HER rat	Hypertensive Essential Rat
DSCG	DiSodium ChromoGlycate (anti-allergic agent)	HIV	hmn immunodeficiency virus
dw	dried weight	HIV-1	hmn immunodeficiency virus type 1
E.A.	Enzyme Activity	HIV-1 IN	hmn immunodeficiency virus type 1 integrase
EBV-EA	Epstein-Barr Virus Early Antigen	HIV-1 RT	hmn immunodeficiency virus type 1 reverse transcriptase
EC	Effective Concentration	HIV-RT	hmn immunodeficiency virus reverse transcriptase
EC <sub>50</sub>	medium Effective Concentration	hmn	human
ED	Effective Dose	HSV-1	herpes simplex virus 1
ED <sub>25</sub>	Effective Dose for 25%	HSV-2	herpes simplex virus 2
ED <sub>50</sub>	medium Effective Dose (in some cases for the medium Effective Concentration)	HVA	homovanillic acid
EGCG (EGCg)	(-)-Epigallocatechin gallate	hydroxyl radical	OH <sup>•</sup>
EGF	Epidermal Growth Factor (it protects MPP <sup>+</sup> -induced cell death)	ia	intra-arterial injection
EGFR	Epidermal Growth Factor Receptor	IAA	indole-3-acetic acid
ELAM-1	Endothelial-Leukocyte Adhesion Molecule-1	IC	Inhibiting Concentration
ELISA	Enzyme-Linked ImmunoSorbent Assay	IC <sub>50</sub>	median Inhibiting Concentration
eotaxin	eosinophilous cytotoxin	IC <sub>100</sub>	Absolute Inhibiting Concentration
ERK	Extracellular signal-Regulated Kinase	ICAM-1	Intercellular Cell Adhesion Molecule-1
ET	experimental times	ICR	Imprinting Control Region mouse
FAG	Fagomine (one kind of polyhydroxy alkaloid, glucosidase inhibitor)	id	intradermal injection
FCA	Freund's complete adjuvant	ID	Inhibiting Dose
FI	Feeding Index (= ((C-T)/(C+T)×100)	ID <sub>50</sub>	Median Inhibiting Dose
Flu-A	influenza virus type A	IFN	interferon
fMLP	<i>N</i> -formyl- <i>L</i> -Methionyl- <i>L</i> -Leucyl- <i>L</i> -Phenylalanine	IFN- $\gamma$	Interferon- $\gamma$
fp	freezing point	IgE	Immunoglobulin E
FR <sub>50</sub>	Feeding ratio when the consumed area of control disc (CCD) is 50% [FR = CTD(consumed area of treated disc)/CCD]	IgG	Immunoglobulin G
fw	fresh weight	IL	interleukin
G6PD	Glucose-6-Phosphate Dehydrogenase	IL-1	Interleukin-1
GABA	$\gamma$ -aminobutyric acid	IL-1 $\alpha$	interleukin-1 $\alpha$
GaIN	galactosamine	IL-1 $\beta$	interleukin-1 $\beta$
GI	growth inhibition	IL-2	Interleukin-2
GI <sub>50</sub>	the concentration of sample necessary to inhibit the growth to 50% of the control	IL-4	Interleukin-4
Glu	glutamate	IL-6	Interleukin-6
GOT	Glutamate-Oxaloacetate Transaminase	IL-8	Interleukin-8
Gp	Gastro protective effect	IL-10	Interleukin-10
gpg	guinea pig	IL-12	Interleukin-12
GPT	GlutamicPyruvic Transaminase	im	intramuscular injection
GRO	Growth-Related Oncogene	<i>in vitro</i>	<i>in vitro</i>
		<i>in vivo</i>	<i>in vivo</i>
		Indo	indomethacin
		iNOS	inducible Nitric Oxide Synthase
		InRt	inhibitive rate
		ip	intraperitoneal injection

i.t.	intrathecal injection	MMP	Matrix MetalloProteinases
iv	intravenous injection	MMP-2	Matrix MetalloProteinase-2
IZA	Inhibition Zone Area (mm <sup>2</sup> )	mp	melting point
IZD	Inhibition Zone Diameter (mm)	mPGES	microsomal ProstaGlandin E Synthase
J774.A1	murine monocyte/macrophage cell J774.A1	MPP+	1-methyl-4-phenylpyridinium ion (neurotoxin)
JNK	c-Jun NH <sub>2</sub> -terminal kinase	MRSA	Methicillin-Resistant <i>Staphylococcus aureus</i>
KD <sub>50</sub>	Dose required to Knock down 50% of the population of insects	MSSA	Methicillin-Sensitive <i>Staphylococcus aureus</i>
LC <sub>50</sub>	concentration at which only 50% of the cell are viable	MTC	Minimal Toxic Concentration
LC <sub>50</sub>	concentration of inhibiting luminous intensity 50%	MTT	A Cytotoxicity measurement method (tetrazolium-based colorimetric assay used for cytotoxicity bioassay, see Rubinstein L. V., et al., <i>Nat. Cancer Inst.</i> , 82, 1113-1118, 1990)
LCIC	Lowest Complete Inhibition Concentration	mus	mouse
LD	Lethal Dose	<i>n</i>	number of parallel experiments
LD <sub>100</sub>	100% Lethal Dose	nAChR	neuronal nicotinic AcetylCholine Receptor
LD <sub>50</sub>	medium Lethal Dose	NADH	reduced nicotinamide adenine dinucleotide
LDH	lactate dehydrogenase	NADPH	cytochrome C reductase
LDL	Low Density Lipoprotein	NCCLS	A standard antibacterial activity test method (see Wayne P. A., "National Committee for Clinical Laboratory Standards Performance Standards for Antimicrobial Disk Susceptibility Tests," 6th ed., Approved standards M2-A6. NCCLS, 1997)
L-NA	N <sup>o</sup> -L-nitroarginine	NDGA	Nordihydroguaiaretic acid
L-NMMA	N <sup>G</sup> -monomethyl-L-arginine	NEP	Neutral EndoPeptidase
LOX	Lipoxygenase	NF	Nuclear Factor
LPO	lipid peroxidation	NF-κB	Nuclear Factor κB
LPS	lipopolysaccharide	NFAT	Nuclear Factor of Activated T cell
LTB <sub>4</sub>	Leukotriene B <sub>4</sub>	NGF	Nerve Growth Factor
LTC <sub>4</sub>	Leukotriene C <sub>4</sub>	NMDA	N-methyl-D-aspartate
LTD <sub>4</sub>	Leukotriene D <sub>4</sub>	NO	nitric oxide
MA	maytenfolic acid	non-oral	paraoral
MA	maslinic acid	NOR1	(+/-)-(E)-4-methyl-2-[(E)-hydroxyimino]-5-nitro-6-methoxy-3-hexenamid
MA	minimal amount	NOS-2	Nitric oxide synthase type-2
MABA	Microplate Alamar Blue Assay	OCIF	OsteoClastogenesis-Inhibitory Factor
MAC-1	integrin MAC-1	oral	oral
MAO-A	Monoamine oxidase A	OVA	ovalbumin
MAO-B	Monoamine oxidase B	oxazolone	oxazolone
MAPK	Mitogen-Activated Protein Kinase	OZ	opsonized zymosan
MCC	Minimum Cytocidal Concentration	P450	Cytochrome P450
MCP	Monocyte Chemotactic Protein	PAF	Platelet Activating Factor
MCTHBE	Minimum Concentration for Total Haemolysis of Bovine Erythrocytes (µg/mL)	PAF	Platelet Aggregation Factor
MDA	Methylene Dihydroxy Amphetamine	PAI-1	Plasminogen Activator Inhibitor type 1
MDA	Malondialdehyde	Para-3 (=PIV3)	Parainfluenza type 3 virus
MDR	MultiDrug Resistance	PBMC	hmn Peripheral Blood Mononuclear Cell
MED	Minimal Effective Dose	PCA reaction	Passive Cutaneous Anaphylaxis reaction
MFC	Minimal Fungicidal Concentration	PD	Parkinson's Disease
MIA	Minimal Inhibitory Amounts (µg/disc)	PD	a cytotoxic model
MIC	Minimum Inhibitory Concentration	pD2 (=pEC <sub>50</sub> )	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC <sub>50</sub> )
MIC <sub>80</sub>	Minimal Inhibitive Concentration for 80%	PDE	phosphodiesterase
MIC <sub>90</sub>	Minimal Inhibitive Concentration for 90%	PDTC	pyrrolidine dithiocarbamate
min	minute	PEBP2αA	polyoma enhancer binding protein 2αA
MIP-1α/β	macrophage inflammatory protein	pEC <sub>50</sub>	negative logarithm (-logM) of the concentration required to produce 50% of the maximum response (EC <sub>50</sub> )
MIQ	Minimum inhibitory quantity (µg)		
MK-801	dizocipline maleate (a non-competitive antagonist of the NMDA receptor)		
MLC	Minimum Lethal Concentration		
MLD	Minimum Lethal Dose		
MMDC	Minimal Morphological Deformation Concentration		
MMOC	Mouse Mammary Organ Culture model		

PEG	PolyEthylene Glycol	Singlet oxygen	$^1\text{O}_2$
PEP	Prolyl endopeptidase (a serine protease)	SIZ	sulfisoxazole
pet. ether	petroleum ether	SNP	sodium nitroprusside
PFTase	farnesylprenyltransferase	SOD	Superoxide dismutase
PGD <sub>2</sub>	prostaglandin D <sub>2</sub>	sp.	species
PGE <sub>2</sub>	prostaglandin E <sub>2</sub>	SP-A	pulmonary surfactant Protein A
PGF <sub>2<math>\alpha</math></sub>	prostaglandin F <sub>2<math>\alpha</math></sub>	spp.	species (plural)
PGH <sub>2</sub>	prostaglandin H <sub>2</sub>	SRSA	Slow-Reacting Substance of Anaphylaxis
PGI <sub>2</sub>	prostacyclin (prostaglandin I <sub>2</sub> )	StRt	Stimulatory Rate
PHA	phytohemagglutinin	STZ	streptozotocin
Phe	Phenylephrine	superoxide anion	$\text{O}_2^{\bullet-}$
pIC <sub>50</sub>	negative logarithm (-logM) of IC <sub>50</sub>	SuRt	survival rate
PK	protein kinase	Syn.(= ‡)	Synonym
PKC	protein kinase C	T/C	survival ratio
PLA <sub>2</sub>	phospholipase A <sub>2</sub>	TACE	$\alpha$ -Secretase (a serine protease)
PMA (=TPA)	Phorbol-12-Myristate-13-Acetate	TBARS	ThioBarbituric Acid Reactive Substance assay
PMNs	polymorphonuclear cell	TC <sub>50</sub>	50% cytoToxic Concentration
pNPPase	<i>p</i> -nitrophenylphosphate enzyme	TCM	Traditional Chinese Medicines
POA	pentacyclic oxindole alkaloids	TFP	Trifluoperazine (calmodulin antagonist)
PPase1	Protein serine/threonine Phosphatase	TGF- $\beta_1$	Transforming Growth Factor- $\beta_1$
PRA	Plaque Reduction Assay	TGI	Total Growth Inhibition, concentration at which no growth was observed
PTH	parathyroid hormone	TI	Therapeutic Index (=IC <sub>50</sub> /EC <sub>50</sub> )
PTN	parthenolide	TNF- $\alpha$	Tumor Necrosis Factor- $\alpha$
PTP1B	Protein Tyrosine Phosphatase 1B	TOA	tetracyclic oxindole alkaloids
QR	quinone reductase	topo II	DNA topoisomerase II
RA	rheumatoid arthritis	TP	Thymidine phosphorylase
Raji	EBV-transformed B cell line	tPA	tissue Plasminogen Activator
rat	white rat	TPA (=PMA)	12- <i>O</i> -tetradecanoyl phorbol 13-acetate
rbt	rabbit	TrkA	proto-oncogene TrkA
RDDP	RNA-dependent DNA polymerase	TXA <sub>2</sub>	thromboxane A <sub>2</sub>
RDS	Respiratory Distress Syndrome	TXB <sub>2</sub>	thromboxane B <sub>2</sub>
rel-InRt	relative inhibitive rate (taking the control compound as 100%)	UDP-MurNac	UDP- <i>N</i> -acetylmuramic acid
RM	Relative Mobility	VCAM-1	Vascular Cell Adhesion Molecule-1
RNA	ribonucleic acid	VCR	vincristine
RNase H	inherent ribonuclease H	VEGF	Vascular Endothelial Growth Factor
ROS	reactive oxygen species (they are involved in the genesis of various cancers, arteriosclerosis, rheumatism and ageing)	Veraguensin	veraguensin
RSV	Respiratory Syncytial Virus	VHR DS-PTPase	VHR Dual-Specificity Protein Tyrosine Phosphatase
RT	Reverse Transcriptase	VHR protein	Vaccina open reading-frame H1-Related protein phosphatase
RT-PCR	reverse-transcribed polymerase chain reaction	VP-16	A positive control for cytotoxic assay (Sigma product)
sALT	serum alanine transaminase	VRE	Vancomycin-Resistant <i>Enterococci</i> sp
sAST	serum aspartate transaminase	VSE	Vancomycin-Sensitive <i>Enterococci</i> sp
sc	subcutaneous injection	VSV	Vesicular Stomatitis Virus
SC <sub>50</sub>	Half-maximal radical Scavenging Concentration	ww	wet weight
SC <sub>50</sub>	50% Scavenging Concentration	XTT	sodium 3'-[1-(phenylaminocarbonyl)-3,4-tetrazolium] bis(4-methoxy-6-nitrobenzene)sulfonic acid
ScRt	scavenging rate	†	homonym mark
SDF	Stromal cell-Derived Factor	‡ (=Syn.)	synonym mark
SGOT	serum Glutamic Oxalacetic Transaminase	*	the name is given by the authors of the books
SGPT	serum Glutamic Pyruvic Transaminase		
SHR rat	Spontaneously Hypertensive Rats		
SI	Selective index = cytotoxic CC <sub>50</sub> /target EC <sub>50</sub>		
SI	Selective index = cytotoxic IC <sub>50</sub> /target IC <sub>50</sub>		
SI	Selective index = cytotoxic IC <sub>50</sub> /target MIC		

# Cancer Cell Codes

This set of codes for 270 cancer cells, named as **CCC code**, are defined and tried out in the books for the first time by the authors.

<b>1A9</b>	hmn ovarian cancer (cell).	<b>CaEs-17</b>	hmn esophageal cancer (cell).
<b>212</b>	inducible <i>Ha-ras</i> oncogene transformed from the NIH/3T3 cell line.	<b>CAKI</b>	hmn renal cancer (cell).
<b>308</b>	cultured mouse epidermal cells.	<b>CAKI-1</b>	hmn renal cancer (cell).
<b>3LL</b>	mus Lewis lung cancer (cell).	<b>Calu1</b>	hmn lung cancer (cell).
<b>3PS</b>	mouse leukemia (cell).	<b>Capan1</b>	pancreas cancer (cell).
<b>780-6</b>	renal cancer (cell).	<b>Capan2</b>	pancreas cancer (cell).
<b>9KB</b>	hmn epidermoid nasopharyngeal carcinoma (cell).	<b>CaSki</b>	hmn cervical carcinoma (cell).
<b>9L</b>	rat glioma (cell).	<b>CEM</b>	leukemia (cell).
<b>9PS</b>	mouse lymphocytic leukemia (cell).	<b>CHAGO</b>	hmn undifferentiated lung cancer (cell).
<b>A2780</b>	hmn ovarian cancer (cell).	<b>CNE</b>	hmn nasopharyngeal carcinoma (cell).
<b>A375</b>	hmn melanoma (cell).	<b>Col1</b>	hmn colorectal cancer (cell).
<b>A431</b>	hmn epidermic cancer (cell).	<b>Col2</b>	hmn colorectal cancer (cell).
<b>A498</b>	hmn renal cancer (cell).	<b>COLO320DM</b>	hmn colorectal cancer (cell).
<b>A549</b>	hmn non-small cell lung cancer (cell).	<b>Colon205</b>	colorectal cancer (cell).
<b>ACHN</b>	hmn renal cancer (cell).	<b>Colon26-L5</b>	mus colorectal cancer (cell).
<b>AGS</b>	gastric adenocarcinoma (cell).	<b>COS-7</b>	monkey kidney cells.
<b>APM1840</b>	hmn leukemia (cell).	<b>CPAE</b>	calf pulmonary arterial endothelial cells.
<b>B16</b>	mouse melanoma (cell).	<b>CT-26</b>	mus colorectal cancer (cell).
<b>B16(F-10)</b>	mouse melanoma (cell).	<b>CTV1</b>	hmn leukemia (cell).
<b>BAEC</b>	bovine aortic endothelial cells.	<b>CXF94L</b>	hmn tumor (cell).
<b>BC</b>	hmn breast cancer (cell).	<b>DLD</b>	hmn colorectal adenocarcinoma (cell).
<b>BC-1</b>	hmn breast cancer (cell).	<b>DLD-1</b>	hmn colorectal adenocarcinoma (cell).
<b>BCA-1</b>	hmn breast cancer (cell).	<b>DMS114</b>	hmn lung cancer (cell).
<b>Bcap37</b>	hmn breast cancer (cell).	<b>DMS273</b>	hmn lung cancer (cell).
<b>Bel7402</b>	hmn liver cancer (cell).	<b>DU145</b>	prostatic cancer (cell).
<b>Bel7405</b>	hmn liver cancer (cell).	<b>EAC</b>	Ehrlich ascites cancer (cell).
<b>BGC823</b>	hmn gastric cancer (cell).	<b>EJ-1</b>	hmn bladder cancer (cell).
<b>BIU87</b>	bladder cancer (cell).	<b>FM3A</b>	mus breast cancer (cell).
<b>BL6</b>	mouse melanoma (cell).	<b>H.Ep.-2</b>	hmn cutis cancer cells in throat.
<b>Bowes</b>	skin cancer cells.	<b>H116</b>	hmn colorectal cancer (cell).
<b>Bre04</b>	hmn breast cancer (cell).	<b>H9</b>	lymphocytes.
<b>BSY1</b>	breast cancer (cell).	<b>HBC4</b>	breast cancer (cell).
<b>BT474</b>	hmn galactophore cancer (cell).	<b>HBC5</b>	breast cancer (cell).
<b>BT549</b>	hmn galactophore cancer (cell).	<b>HCC2998</b>	hmn colorectal cancer (cell).
<b>BXPC3</b>	pancreas cancer (cell).	<b>HCT</b>	hmn colorectal cancer (cell).
<b>C6</b>	rat glioma (cell).	<b>HCT116</b>	hmn colorectal cancer (cell).
<b>CA</b>	hmn liver cancer (cell).	<b>HCT15</b>	hmn colorectal cancer (cell).

**HCT8** hmn colorectal cancer (cell).  
**HEK-293** hmn epithelial kidney cell.  
**HEL** hmn embryonic lung fibrocytes.  
**HeLa** culture cervical epithelial cancer (cell) from Henrietta Lack.  
**HeLa ATCC-17** hmn cervical epithelial cancer (cell).  
**HeLa-S3** hmn cervical epithelial cancer (cell).  
**HELF** normal hmn embryo lung fibroblasts.  
**Hep2** hmn liver cancer (cell).  
**Hep2,2,15** hmn liver cancer (cell) transfected with hepatitis B virus.  
**Hep3B** hmn liver cancer (cell).  
**Hepa** hmn liver cancer (cell).  
**Hepa1c1c7** mus liver cancer (cell).  
**Hepa59T/VGH** hmn liver cancer (cell).  
**HepG2** hmn liver cancer (cell).  
**HEPZ** hmn epithelial cancer (cell).  
**HFF** hmn foreskin fibroblasts.  
**HGF** normal hmn gingival fibroblast cells.  
**HL-60** hmn acute promyelocytic leukemia (cell).  
**HM02** hmn melanoma (cell).  
**HMC-1** hmn leukemic mast cells.  
**HMEC** hmn microvascular endothelial cells.  
**HO-8910** hmn ovarian cancer (cell).  
**HOG.R5** green fluorescent protein (GFP)-based reporter cell.  
**HONE-1** hmn nasopharyngeal carcinoma (cell).  
**HOP-62** non-small cell lung cancer (cell).  
**Hs578T** hmn breast cancer (cell).  
**Hs740T** hmn gastric cancer (cell).  
**Hs742T** hmn breast cancer (cell).  
**Hs756T** hmn gastric cancer (cell).  
**HSC-2** hmn oral squamous cell carcinoma cells.  
**HSG** hmn salivary gland tumor (cell).  
**HT** sarcoma (cell).  
**HT1080** hmn fibrosarcoma (cell).  
**HT29** hmn colorectal cancer (cell).  
**HT3** hmn cervical carcinoma (cell).  
**hTERT-RPE1** hmn telomerase reverse transcriptase-retinal pigment epithelial cells.  
**Huh7** hmn hepatoma (cell).  
**HUVEC** hmn umbilical vein endothelial cell.  
**Jurkat-T** hmn T-cell leukemia (cell).  
**K562** hmn leukemia (cell).  
**K562/ADM** hmn leukemia (cell) of adriamycin-resistant.  
**Kato3** hmn gastric cancer (cell).  
**KB** hmn nasopharyngeal carcinoma (cell).  
**KB15** hmn nasopharyngeal carcinoma (cell).  
**KB16** hmn nasopharyngeal carcinoma (cell).  
**KB3** hmn nasopharyngeal carcinoma (cell).  
**KBV200** MDR nasopharyngeal carcinoma (cell).  
**KB-VIN** vincristine-resistant nasopharyngeal carcinoma (cell).  
**Ketr3** hmn renal cancer (cell).  
**KG-1** hmn leukemia (cell).  
**KM12** hmn colorectal cancer (cell).  
**KM20L2** hmn colorectal cancer (cell).  
**KU-1** hmn bladder cancer (cell).  
**L<sub>1210</sub>** Lymphocytic leukemia (cell).  
**L5178Y** lymphosarcoma (cell).  
**L-6** rat skeletal myoblasts.  
**L<sub>615</sub>** mouse spleen leukemia (cell).  
**L<sub>7212</sub>** mouse leukemia (cell).  
**L-929** fibrosarcoma (cell).  
**LLC** mouse Lewis lung cancer (cell).  
**LMTK** mouse fiber cells.  
**LNCaP** hmn prostatic cancer (cell).  
**LNCaP-FGC** hmn prostatic cancer (cell).  
**LO2** hmn liver cell.  
**LoVo** hmn colorectal cancer (cell).  
**LoVo/Doxo** hmn colorectal cancer cell, drug-resistant subclone.  
**LOX** melanoma (cell).  
**LOX-IMVI** melanoma (cell).  
**LS174T** colorectal cancer (cell).  
**Lu04** hmn lung cancer (cell).  
**Lu1** hmn lung cancer (cell).  
**LXFL529L** hmn large cell lung cancer (cell).  
**M1** mus myelocytic leukemia (cell).  
**M14** melanoma (cell).  
**M4BEU** hmn melanoma (cell).  
**M5076** ovarian sarcoma (cell).  
**Ma7373** mus breast cancer (cell).  
**MALME-3M** melanoma (cell).  
**MBT-2** mus bladder cancer (cell).  
**MCF7** hmn breast cancer (cell).  
**MCF7/6** hmn breast cancer (cell).  
**MCF7/ADR-RES** hmn breast cancer (cell).  
**MCF7-ras** hmn breast cancer (cell).  
**MDA231** hmn breast cancer (cell).  
**MDA-MB-231** hmn breast cancer (cell).  
**MDA-MB-435** hmn breast cancer (cell).  
**MDCK** Madin-Darby Canine.  
**MEL-28** hmn melanoma cell.  
**Meth-A** Meth-A sarcoma (cell).  
**MGe803** hmn gastric adenocarcinoma (cell).  
**MH-60** mus leukemia (cell).  
**MI4** melanoma (cell).  
**MIA-PaCa-2** hmn pancreas cancer (cell).  
**MK1** hmn gastric cancer (cell).  
**MKN1** hmn gastric cancer (cell).  
**MKN28** hmn gastric cancer (cell).  
**MKN45** hmn gastric cancer (cell).  
**MKN7** hmn gastric cancer (cell).  
**MKN74** hmn gastric cancer (cell).  
**MM1** highly invasive clone isolated from parental rat ascites hepatoma AH130 cells.  
**Molt4** hmn lymphoma (cell).  
**Mono-Mac-6** mononuclear cells.  
**MQc80-3** gastric adenocarcinoma (cell).  
**MRC-5** hmn diploid embryonic cells.

**MS301** mus breast cancer (cell).  
**MS310** mus breast cancer (cell).  
**N04** hmn neuroma (cell).  
**NCI-H1417** hmn small cell lung cancer (cell).  
**NCI-H187** hmn small cell lung cancer (cell).  
**NCI-H226** hmn non-small cell lung cancer (cell).  
**NCI-H23** hmn lung cancer (cell).  
**NCI-H460** hmn lung cancer (cell).  
**NCI-H522** hmn lung cancer (cell).  
**NK/LY** ascites cancer (cell).  
**NSCLC-N6** hmn non-small cell lung cancer (cell).  
**NUGC** hmn gastric cancer (cell).  
**NUGC-3** hmn gastric cancer (cell).  
**NUGC-4** hmn gastric cancer (cell).  
**OVCAR-2780** ovarian adenocarcinoma (cell).  
**OVCAR-3** ovarian adenocarcinoma (cell).  
**OVCAR-4** ovarian adenocarcinoma (cell).  
**OVCAR-5** ovarian adenocarcinoma (cell).  
**OVCAR-8** ovarian adenocarcinoma (cell).  
**P1534** mus, transplanted leukemia (cell).  
**P<sub>388</sub>** mouse lymphocytic leukemia (cell).  
**P<sub>388</sub>/ADM** mouse lymphocytic leukemia (cell) of adriamycin-resistant.  
**PACA-2** hmn pancreas cancer (cell) .  
**PANC1** pancreas cancer (cell).  
**PBMC** peripheral blood mononuclear cells.  
**PC12** hmn lung cancer (cell).  
**PC3** hmn prostatic cancer (cell).  
**PC-6** hmn lung cancer (cell).  
**PLC/PRF/5** hmn liver cancer (cell).  
**PSN1** hmn pancreas cancer (cell).  
**PTX10** ovarian cancer cells with  $\beta$ -tubulin mutation.  
**QGY-7703** hmn liver cancer (cell).  
**RAW264.7** mouse macrophages.  
**RBL-2H3** rat basophilic cells.  
**RL33** rbt lung cancer (cell).  
**RPMI-7951** melanoma (cell).  
**RPMI-8226** leukemia (cell).  
**RXF-393** renal cancer (cell).  
**RXF-631L** renal cancer (cell).  
**S<sub>180</sub>** mouse sarcoma (cell).  
**S37** mouse sarcoma (cell).  
**Sea7901** hmn gastric adenocarcinoma (cell).  
**SCL** hmn gastric cancer (cell).  
**SCL-37'6** hmn gastric cancer (cell).  
**SCL-6** hmn gastric cancer (cell).  
**SCL-9** hmn gastric cancer (cell).  
**SF268** hmn brain tumor (cell).  
**SF295** hmn brain tumor (cell).  
**SF539** hmn brain tumor (cell).  
**SGC** hmn gastric cancer (cell).  
**SGC7901** hmn gastric cancer (cell).  
**SiHa** hmn cervical carcinoma (cell).  
**SKBR3** hmn breast cancer (cell).  
**SKCO1** colorectal cancer (cell).  
**SK-MEL** hmn caucasian melanoma (cell).  
**SK-MEL-2** hmn melanoma (cell).  
**SK-MEL-28** hmn melanoma (cell).  
**SK-MEL-5** hmn melanoma (cell).  
**SK-MES-1** bronchogenic carcinoma cell.  
**SK-OV-3** ovarian adenocarcinoma (cell).  
**SMMC-7721** hmn liver cancer (cell).  
**SNB75** hmn brain tumor (cell).  
**SNB78** hmn brain tumor (cell).  
**SNU638** hmn gastric adenocarcinoma (cell).  
**SR** leukemia (cell).  
**St4** gastric cancer (cell).  
**SVR** mouse endothelial cells.  
**SW620** hmn colorectal adenocarcinoma (cell).  
**T24** hmn liver cancer (cell).  
**T24S** hmn bladder cancer (cell).  
**T47D** hmn breast cancer (cell).  
**T98G** hmn caucasian glioblastoma (cell).  
**TK10** renal cancer (cell).  
**Tmolt3** hmn leukemia (cell).  
**U14** mouse cervical carcinoma (cell).  
**U251** brain tumor (cell).  
**U373** caucasian glioblastoma (cell).  
**U4** mouse cervical carcinoma (cell).  
**U-87-MG** caucasian glioblastoma (cell).  
**U937** hmn monocytic leukemia (cell).  
**UACC62** melanoma (cell).  
**UO-31** renal cancer (cell).  
**Vero** green monkey kidney tumour (cell).  
**W<sub>256</sub>** rat Walker sarcoma (cell).  
**WEHI-164** mus fibrosarcoma (cell).  
**WHCO1** hmn esophageal cancer (cell).  
**WI-38** hmn lung fibrocyte (normal hmn diploid fibrocyte).  
**WiDr** colorectal adenocarcinoma (cell).  
**Wish** transformed epithelial tumour (cell).  
**XF-498** hmn tumor (cell).  
**ZR-75-1** hmn breast cancer (cell).





# **Volume 5**

## **Isolated Compounds (T-Z)**

### **References**

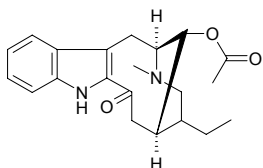
## **TCM Plants and Congeners**



# T

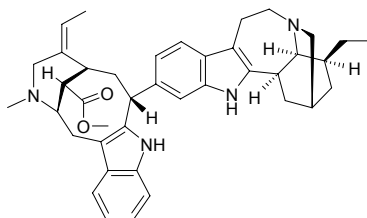
## 20575 Tabernaemontanine

$C_{21}H_{26}N_2O_3$  (354.45). Acicular crystals (ethyl acetate), mp 219–222°C,  $[\alpha]_D^{25} = -57.5^\circ$  ( $c = 1$ , chloroform); hydrochloride crystals (acetone), mp 230–233°C. **Pharm:** Antibacterial (against 30 different pathogenic bacterial strains, 3.7% solution, InRt = 17%); cytotoxic (KB); used in treatment of arteriosclerosis, cerebral wounds and dysemia; vasodilator (dog, iv, 0.5–5.0mg/kg). **Source:** DONG FANG GOU YA HUA *Ervatamia orientalis*. **Ref:** 658.



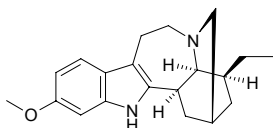
## 20576 Tabernamine

$C_{40}H_{48}N_4O_2$  (616.85). **Pharm:** Antineoplastic (P<sub>388</sub>). **Source:** YUE HAN SI TONG SHAN MA CHA *Tabernaemontana johnstonii*. **Ref:** 658.



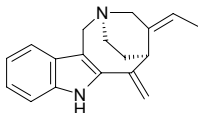
## 20577 Tabernanthine

$C_{20}H_{26}N_2O$  (310.44). **Pharm:** CNS activity; binding activity to benzodiazepine receptor. **Source:** family Apocynaceae spp. **Ref:** 658.



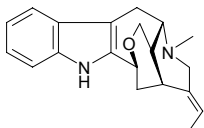
## 20578 Tabernoschizine

Pericalline [2122-36-3]  $C_{18}H_{20}N_2$  (264.37). mp 198–199°C. **Pharm:** Analgesic; antibacterial (*Shigella* sp., *Salmonella* sp., *Escherichia* sp., *Bacillus termo*, *Pseudomonas maltophilia*, *Staphylococcus* sp.); antiviral (spodiomyelitis virus). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CU MAO GUO BAI JIAN MU *Aspidosperma dasycarpon*. **Ref:** 6, 658, 1521.



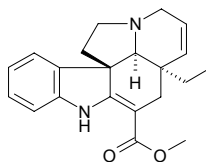
## 20579 19-(Z)-Taberpsychine

$C_{20}H_{24}N_2O$  (308.43). Oil,  $[\alpha]_D = -180^\circ$ . **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14, 411, 416.



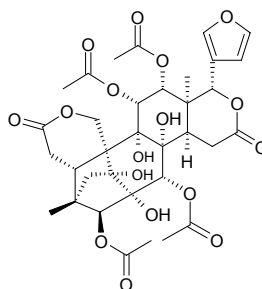
## 20580 Tabersonine

$C_{21}H_{24}N_2O_2$  (336.44). **Pharm:** Antihypertensive. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2, 658.



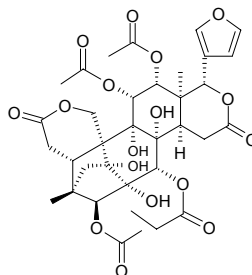
## 20581 Tabulalide A

$C_{34}H_{40}O_{17}$  (720.69). White amorphous powder,  $[\alpha]_D = -44^\circ$  ( $c = 0.21$ , MeOH). **Source:** MA LIAN *Chukrasia tabularis* (root cortex). **Ref:** 3868.



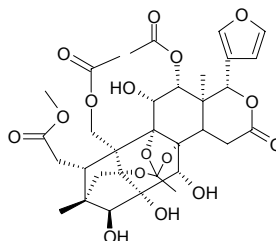
## 20582 Tabulalide B

$C_{35}H_{42}O_{17}$  (734.71). White amorphous powder,  $[\alpha]_D = -37^\circ$  ( $c = 0.14$ , MeOH). **Source:** MA LIAN *Chukrasia tabularis* (root cortex). **Ref:** 3868.



## 20583 Tabulalide C

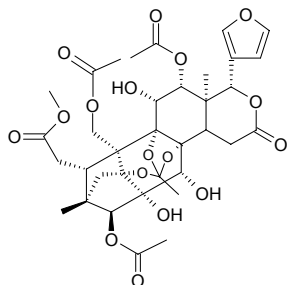
$C_{33}H_{40}O_{16}$  (692.68). White amorphous powder,  $[\alpha]_D = -49^\circ$  ( $c = 0.28$ , MeOH). **Source:** MA LIAN *Chukrasia tabularis* (root cortex). **Ref:** 3868.



**20584 Tabulalide D**

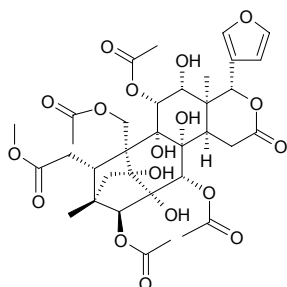
$C_{35}H_{42}O_{17}$  (734.71). White amorphous powder,  $[\alpha]_D = -52^\circ$  ( $c = 0.16$ , MeOH).

Source: MA LIAN *Chukrasia tabularis* (root cortex). Ref: 3868.

**20585 Tabulalide E**

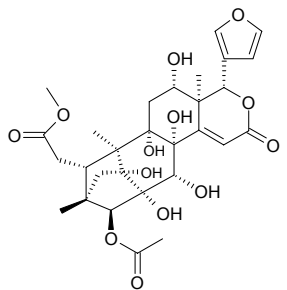
$C_{35}H_{44}O_{18}$  (752.73). White amorphous powder,  $[\alpha]_D = -2.9^\circ$  ( $c = 0.07$ , MeOH).

Source: MA LIAN *Chukrasia tabularis* (root cortex). Ref: 3868.

**20586 Tabularin**

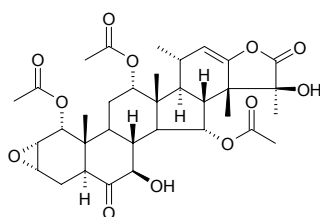
$C_{29}H_{36}O_{13}$  (592.60). White amorphous powder,  $[\alpha]_D = +41^\circ$  ( $c = 0.19$ , MeOH).

Source: MA LIAN *Chukrasia tabularis* (root cortex). Ref: 3868.

**20587 Taccalonolide E**

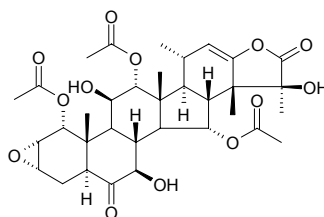
$C_{34}H_{44}O_{12}$  (644.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

*Schizocapsa plantaginea*]. Ref: 293.

**20588 Taccalonolide F**

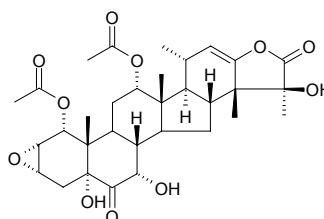
$C_{34}H_{44}O_{13}$  (660.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

*Schizocapsa plantaginea*]. Ref: 293.

**20589 Taccalonolide G**

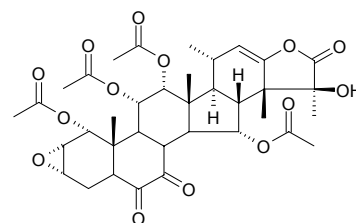
$C_{32}H_{42}O_{11}$  (602.68). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

*Schizocapsa plantaginea*]. Ref: 293.

**20590 Taccalonolide H**

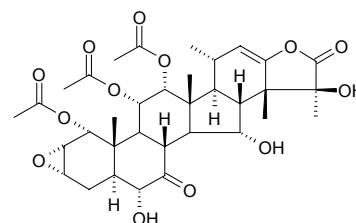
$C_{36}H_{44}O_{14}$  (700.74). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

*Schizocapsa plantaginea*]. Ref: 293.

**20591 Taccalonolide I**

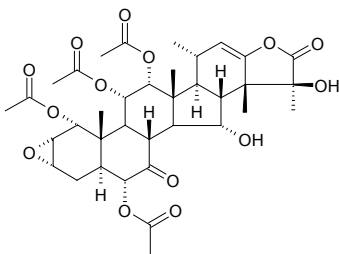
$C_{34}H_{44}O_{13}$  (660.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn.

*Schizocapsa plantaginea*]. Ref: 293.

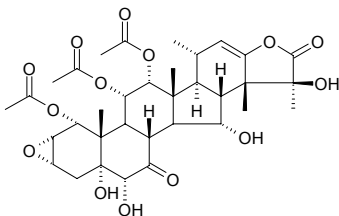


**20592 Taccalonolide J**

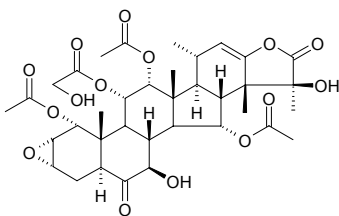
$C_{36}H_{46}O_{14}$  (702.76). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20593 Taccalonolide K**

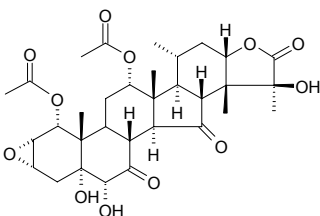
$C_{34}H_{44}O_{14}$  (676.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20594 Taccalonolide L**

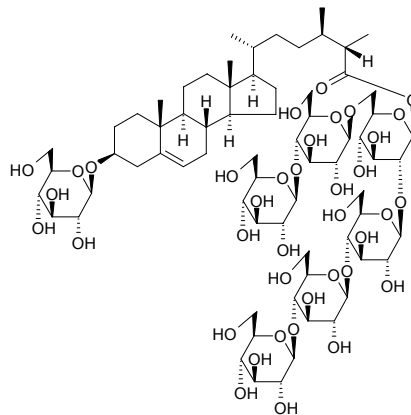
$C_{36}H_{46}O_{15}$  (718.76). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20595 Taccalonolide M**

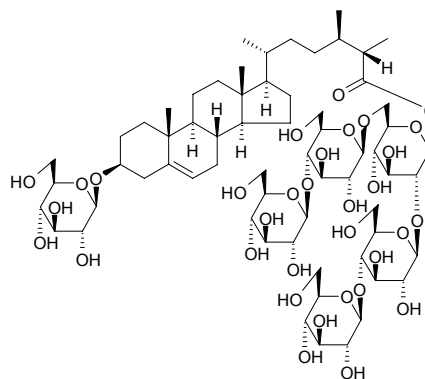
$C_{32}H_{42}O_{12}$  (618.68). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20596 Taccasteroside A**

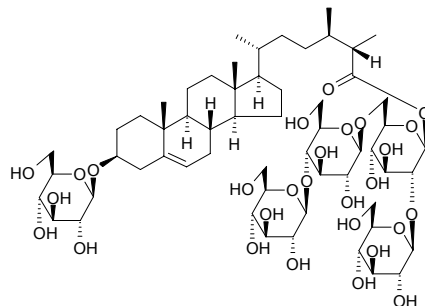
(24*R*,25*S*)-3β-[(β-*D*-Glucopyranosyl)oxy]ergost-5-en-26-oic acid *O*-β-*D*-glucopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl ester  $C_{70}H_{116}O_{38}$  (1565.68). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2568.

**20597 Taccasteroside B**

(24*R*,25*S*)-3β-[(β-*D*-Glucopyranosyl)oxy]ergost-5-en-26-oic acid *O*-β-*D*-glucopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl ester  $C_{64}H_{106}O_{33}$  (1403.54). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2568.

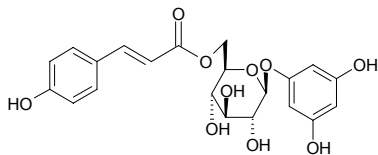
**20598 Taccasteroside C**

(24*R*,25*S*)-3β-[(β-*D*-Glucopyranosyl)-oxy]ergost-5-en-26-oic acid *O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl ester  $C_{58}H_{96}O_{28}$  (1241.40). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2568.

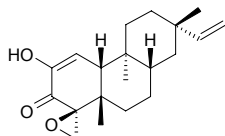


**20599 Tadehaginoside**

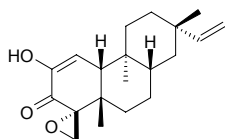
$C_{21}H_{22}O_{10}$  (434.40). White acicular crystals ( $CH_3OH$ ), mp 121~123°C,  $[\alpha]_D^{28} = -14.7^\circ$  ( $c = 0.2$ ,  $CH_3OH$ ). Source: HU LU CHA *Tadehagi triquetrum*. Ref: 777.

**20600 Tagalsin A**

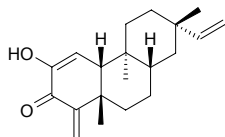
$C_{20}H_{28}O_3$  (316.44). Pale yellow needle crystals, mp 67~69°C,  $[\alpha]_D^{25} = +69.26^\circ$  ( $c = 0.054$ ,  $CHCl_3$ ). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20601 Tagalsin B**

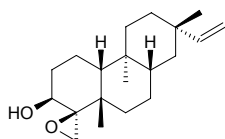
$C_{20}H_{28}O_3$  (316.44). White solid, mp 66~68°C,  $[\alpha]_D^{25} = +165^\circ$  ( $c = 0.06$ ,  $CHCl_3$ ). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20602 Tagalsin C**

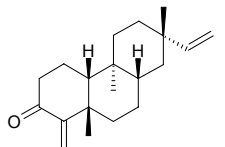
$C_{20}H_{28}O_2$  (300.44). Yellow oil,  $[\alpha]_D^{25} = +92.3^\circ$  ( $c = 0.05$ ,  $CHCl_3$ ). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20603 Tagalsin D**

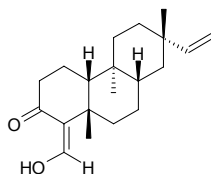
$C_{20}H_{32}O_2$  (304.48). White solid, mp 64~66°C,  $[\alpha]_D^{25} = +38.4^\circ$  ( $c = 0.074$ ,  $CHCl_3$ ). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20604 Tagalsin E**

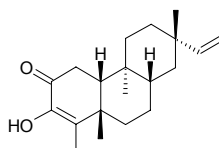
$C_{20}H_{30}O$  (286.46). Yellow solid, mp 73~75°C,  $[\alpha]_D^{25} = +7.85^\circ$  ( $c = 0.07$ ,  $CHCl_3$ ). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20605 Tagalsin F**

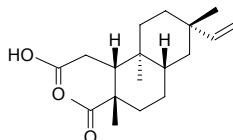
$C_{20}H_{30}O_2$  (302.46). White solid, mp 98~99°C,  $[\alpha]_D^{25} = +34.86^\circ$  ( $c = 0.072$ ,  $CHCl_3$ ). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20606 Tagalsin G**

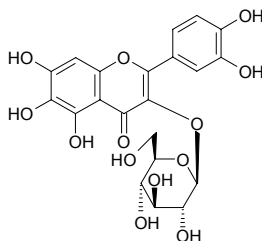
$C_{20}H_{30}O_2$  (302.46). Colorless oil,  $[\alpha]_D^{25} = +55.97^\circ$  ( $c = 0.09$ ,  $CHCl_3$ ). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20607 Tagalsin H**

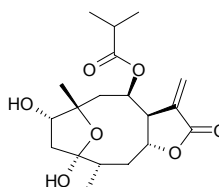
$C_{19}H_{30}O_3$  (306.45). White powder, mp 101~102°C. Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20608 Tagetiin**

$C_{21}H_{20}O_{13}$  (480.39). mp 203°C (dec). Source: WAN SHOU JU *Tagetes erecta*. Ref: 6.

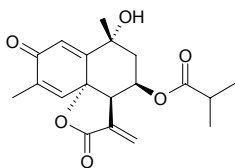
**20609 Tagitinin A**

$C_{19}H_{28}O_7$  (368.43). Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts). Ref: 4622.

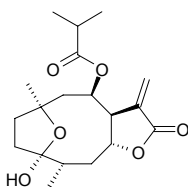


**20610 Tagitinin C**

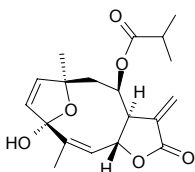
$C_{19}H_{22}O_6$  (346.38). **Pharm:** Cytotoxic (antiproliferative, Col2 cells,  $IC_{50} = 0.7\mu\text{g/mL}$ ); cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells,  $4\mu\text{g/mL}$ , activity denotes percentage of cells differentiated = 20.2%); cytotoxic (MMOC model, inhibits DMBA-induced preneoplastic lesion formation,  $10\mu\text{g/mL}$ , rel-InRt = 44.4%, control DMBA, rel-InRt = 100%). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts, 13.9%dw). **Ref:** 4622.

**20611 Tagitinin D**

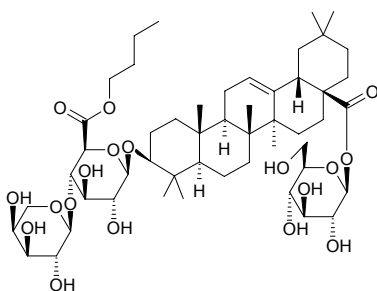
Tirotundin [56377-67-4]  $C_{19}H_{28}O_6$  (352.43). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts). **Ref:** 4622.

**20612 Tagitinin F**

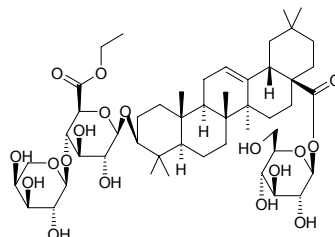
$C_{19}H_{24}O_6$  (348.40). Colorless acicular crystals (benzene-hexane), mp  $128\sim 130^\circ\text{C}$ ,  $[\alpha]_D = -144^\circ$  ( $c = 1$ , ethanol). **Pharm:** Antineoplastic (mus P<sub>388</sub>, 1.25mg/kg, biotic prolonged rate = 61%). **Source:** MO XI GE XIANG RI KUI *Tithonia tagiliflora*. **Ref:** 661.

**20613 Taibaienoside I**

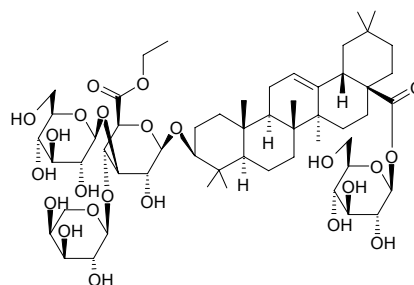
3-*O*-[ $\alpha$ -*L*-Arabinofuranosyl (1→4)-6'-*O*-*n*-butyl- $\beta$ -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- $\beta$ -*D*-glucopyranoside  $C_{51}H_{82}O_{18}$  (983.21). White acicular crystals (chloroform-methanol), mp  $177\sim 180^\circ\text{C}$ ,  $[\alpha]_D^{20} = -20.23^\circ$  ( $c = 0.54$ , methanol). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 394.

**20614 Taibaienoside II**

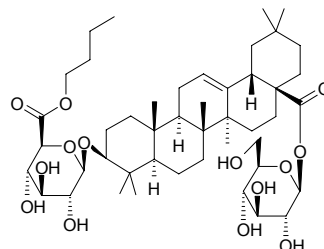
3-*O*-[ $\alpha$ -*L*-Arabinofuranosyl-(1→4)-6'-*O*-ethyl- $\beta$ -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- $\beta$ -*D*-glucopyranoside  $C_{49}H_{78}O_{18}$  (955.16). White crystalline powder, mp  $194\sim 195^\circ\text{C}$ ,  $[\alpha]_D^{20} = -22.85^\circ$  ( $c = 0.41$ , methanol). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 394.

**20615 Taibaienoside III**

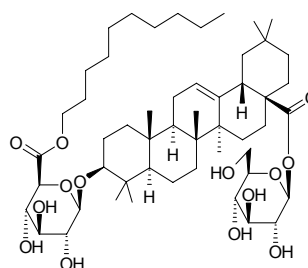
3-*O*-[ $\beta$ -*D*-Glucopyranosyl-(1→3)[ $\alpha$ -*L*-arabinofuranosyl-(1→4)]-6'-*O*-ethyl- $\beta$ -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- $\beta$ -*D*-glucopyranoside  $C_{55}H_{88}O_{23}$  (1117.30). White crystalline powder, mp  $194\sim 195^\circ\text{C}$ ,  $[\alpha]_D^{20} = -22.85^\circ$  ( $c = 0.41$ , methanol). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 394.

**20616 Taibaienoside IV**

$C_{46}H_{74}O_{14}$  (851.09). White crystalline powder, mp  $181\sim 184^\circ\text{C}$ ,  $[\alpha]_D^{20} = +8.12^\circ$  ( $c = 0.23$ , MeOH). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 470.

**20617 Taibaienoside V**

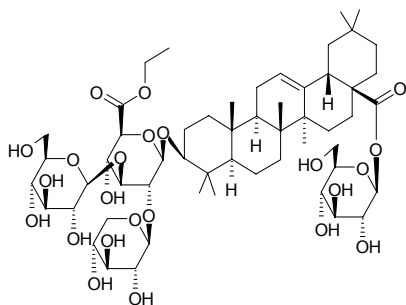
$C_{52}H_{86}O_{14}$  (935.26). White crystalline powder, mp  $162\sim 164^\circ\text{C}$ . **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 470.



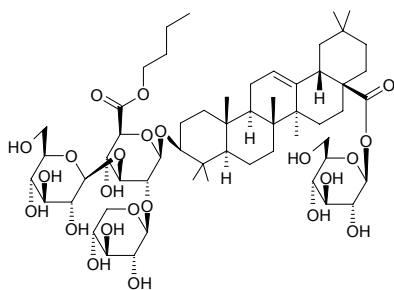


**20618 Taibaienoside VII**

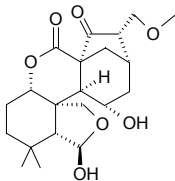
3-*O*-[ $\beta$ -*D*-Xylopyranosyl-(1 $\rightarrow$ 2)][ $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 3)]-6'-*O*-ethyl- $\beta$ -*D*-glucuronopyranosyl] oleanolic acid-28-*O*- $\beta$ -*D*-glucopyranoside C<sub>55</sub>H<sub>88</sub>O<sub>23</sub> (1117.30). White crystalline powder, mp 207~209°C. Source: TAI BAI CONG MU *Aralia taibaiensis*. Ref: 359.

**20619 Taibaienoside VIII**

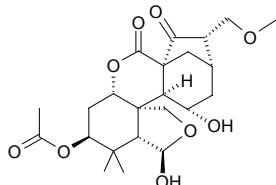
3-*O*-[ $\beta$ -*D*-Xylopyranosyl-(1 $\rightarrow$ 2)][ $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 3)]-6'-*O*-butyl- $\beta$ -*D*-glucuronopyranosyl]oleanolic acid-28-*O*- $\beta$ -*D*-glucopyranoside C<sub>57</sub>H<sub>92</sub>O<sub>23</sub> (1145.35). White crystalline powder, mp 212~213°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +4.90° (*c* = 0.82, methanol). Source: TAI BAI CONG MU *Aralia taibaiensis*. Ref: 359.

**20620 Taibaijaponicain A**

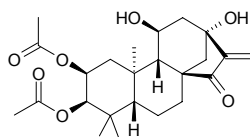
6 $\beta$ ,11 $\alpha$ -Dihydroxy-16 $\alpha$ -methoxymethyl-6,20-epoxy-6,7-seco-*ent*-kaur-15-one-1,7-olide C<sub>21</sub>H<sub>30</sub>O<sub>7</sub> (394.47). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>17</sup> = -104.7° (*c* = 0.49, acetone). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*] (leaf and branch). Ref: 5192.

**20621 Taibaijaponicain B**

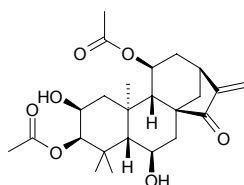
3 $\beta$ -Acetoxy-6 $\beta$ ,11 $\alpha$ -dihydroxy-16 $\alpha$ -methoxymethyl-6,20-epoxy-6,7-seco-*ent*-kaur-15-one-1,7-olide C<sub>23</sub>H<sub>32</sub>O<sub>9</sub> (452.51). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>17</sup> = -98.6° (*c* = 0.5, acetone). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*] (leaf and branch). Ref: 5192.

**20622 Taibairubescensin A**

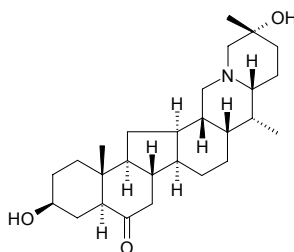
2 $\beta$ ,3 $\beta$ -Diacetoxy-11 $\beta$ ,13 $\alpha$ -dihydroxy-*ent*-kaur-16-en-15-one C<sub>24</sub>H<sub>34</sub>O<sub>7</sub> (434.53). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>17</sup> = 49.3° (*c* = 0.5, CHCl<sub>3</sub>). Source: DONG LING CAO *Rabdosia rubescens*. Ref: 765, 4067.

**20623 Taibairubescensin B**

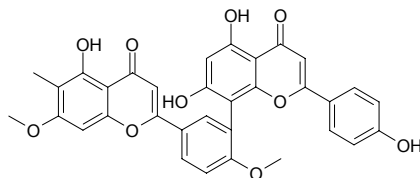
3 $\beta$ ,11 $\beta$ -Diacetoxy-2 $\beta$ ,6 $\alpha$ -dihydroxy-*ent*-kaur-16-en-15-one C<sub>24</sub>H<sub>34</sub>O<sub>7</sub> (434.53). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>17</sup> = -34° (*c* = 1, CHCl<sub>3</sub>). Source: DONG LING CAO *Rabdosia rubescens*. Ref: 765, 4067.

**20624 Taipaienine**

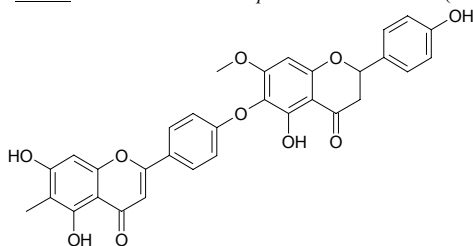
C<sub>27</sub>H<sub>43</sub>NO<sub>3</sub> (429.65). Acicular crystals, mp 120~122°C, [ $\alpha$ ]<sub>D</sub><sup>28</sup> = +12.9° (*c* = 0.31, MeOH). Source: NING XIA BEI MU *Fritillaria taipaiensis* var. *ningxiaensis*. Ref: 271.

**20625 Taiwanhomoflavone A**

C<sub>33</sub>H<sub>24</sub>O<sub>10</sub> (580.55). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (leaf: yield = 0.00087%dw). Ref: 4759.

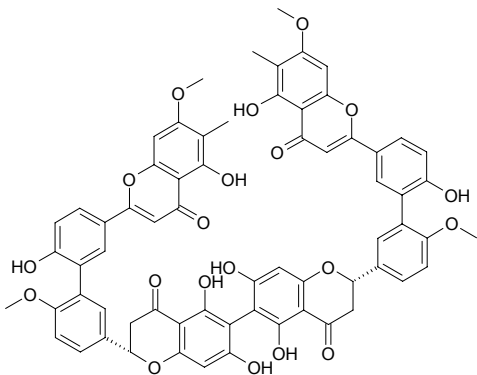
**20626 Taiwanhomoflavone B**

C<sub>32</sub>H<sub>24</sub>O<sub>10</sub> (568.54). Pale yellow powder. Pharm: Cytotoxic (KB oral epidermoid carcinoma, ED<sub>50</sub> = 3.8 $\mu$ g/mL, Hep3B hepatoma cells, ED<sub>50</sub> = 3.5 $\mu$ g/mL). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig). Ref: 4253.

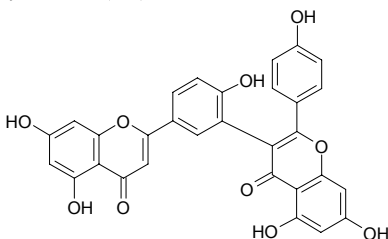


**20627 Taiwanhomoflavone C**

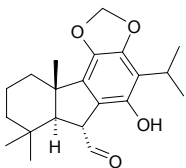
Di(5,7,4"-trihydroxy-2,3-dihydro-4',7"-dimethoxy-6"-methyl-3',3"-biflavanyl)-6,6-tetraflavone C<sub>66</sub>H<sub>50</sub>O<sub>20</sub> (1163.12). Yellow amorphous solid,  $[\alpha]_D^{28} = +44^\circ$  ( $c = 0.114$ , MeOH). **Source:** TAI WAN CU FEI *Cephalotaxus wilsoniana* (leaf; yield = 0.00096%dw). **Ref:** 4759.

**20628 Taiwaniaflavone**

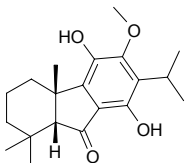
C<sub>30</sub>H<sub>18</sub>O<sub>10</sub> (538.47). **Source:** TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). **Ref:** 4297.

**20629 Taiwaniaquinol A**

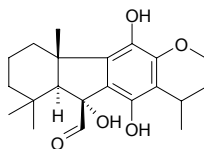
C<sub>21</sub>H<sub>28</sub>O<sub>4</sub> (344.45).  $[\alpha]_D^{22} = +80.5^\circ$  ( $c = 0.38$ , CHCl<sub>3</sub>). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC<sub>50</sub> = (8.3±0.4)μmol/L, control Etoposide, IC<sub>50</sub> = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20630 Taiwaniaquinol B**

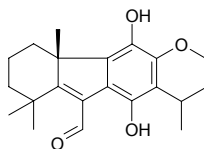
C<sub>20</sub>H<sub>28</sub>O<sub>4</sub> (332.44).  $[\alpha]_D^{22} = -50.1^\circ$  ( $c = 0.27$ , CHCl<sub>3</sub>). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC<sub>50</sub> > 10μmol/L, control Etoposide, IC<sub>50</sub> = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20631 Taiwaniaquinol C**

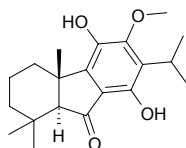
C<sub>21</sub>H<sub>30</sub>O<sub>5</sub> (362.47). Yellowish amorphous,  $[\alpha]_D^{23} = -10.5^\circ$  ( $c = 0.32$ , CHCl<sub>3</sub>);  $[\alpha]_D^{22} = -10.5^\circ$  ( $c = 0.32$ , CHCl<sub>3</sub>). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC<sub>50</sub> = (8.1±0.7)μmol/L, control Etoposide, IC<sub>50</sub> = (1.1±0.02)μmol/L)<sup>[5045]</sup>. **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 4409, 5045.

**20632 Taiwaniaquinol D**

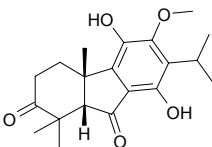
C<sub>21</sub>H<sub>28</sub>O<sub>4</sub> (344.45). Red-orange gum,  $[\alpha]_D^{23} = -80.2^\circ$  ( $c = 0.32$ , CHCl<sub>3</sub>);  $[\alpha]_D^{22} = -80.2^\circ$  ( $c = 0.32$ , CHCl<sub>3</sub>). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC<sub>50</sub> = (3.5±0.1)μmol/L, control Etoposide, IC<sub>50</sub> = (1.1±0.02)μmol/L)<sup>[5045]</sup>. **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 4409, 5045.

**20633 Taiwaniaquinol E**

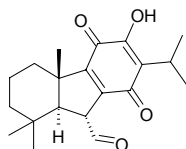
C<sub>20</sub>H<sub>28</sub>O<sub>4</sub> (332.44). Yellowish gum,  $[\alpha]_D^{22} = -8.3^\circ$  ( $c = 0.32$ , CHCl<sub>3</sub>). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC<sub>50</sub> > 10μmol/L, control Etoposide, IC<sub>50</sub> = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20634 Taiwaniaquinol F**

C<sub>20</sub>H<sub>26</sub>O<sub>5</sub> (346.43). Yellowish gum,  $[\alpha]_D^{22} = -5.2^\circ$  ( $c = 0.32$ , CHCl<sub>3</sub>). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC<sub>50</sub> > 10μmol/L, control Etoposide, IC<sub>50</sub> = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

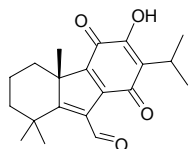
**20635 Taiwaniaquinone A**

C<sub>20</sub>H<sub>26</sub>O<sub>4</sub> (330.43).  $[\alpha]_D^{22} = -210.5^\circ$  ( $c = 0.34$ , CHCl<sub>3</sub>). **Pharm:** Cytotoxic (*in vitro*, KB cells, IC<sub>50</sub> = (6.9±0.3)μmol/L, control Etoposide, IC<sub>50</sub> = (1.1±0.02)μmol/L). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

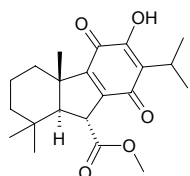


**20636 Taiwaniaquinone D**

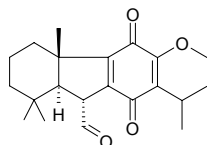
$C_{20}H_{24}O_4$  (328.41).  $[\alpha]_D^{22} = -5.6^\circ$  ( $c = 0.54$ ,  $CHCl_3$ ). **Pharm:** Cytotoxic (*in vitro*, KB cells,  $IC_{50} = (7.2 \pm 0.05) \mu\text{mol/L}$ , control Etoposide,  $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$ ). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20637 Taiwaniaquinone E**

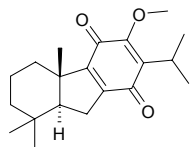
$C_{21}H_{28}O_5$  (360.45).  $[\alpha]_D^{22} = -205.5^\circ$  ( $c = 0.34$ ,  $CHCl_3$ ). **Pharm:** Cytotoxic (*in vitro*, KB cells,  $IC_{50} > 10 \mu\text{mol/L}$ , control Etoposide,  $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$ ). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20638 Taiwaniaquinone F**

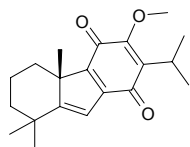
$C_{21}H_{28}O_4$  (344.45). Orange amorphous,  $[\alpha]_D^{23} = -166.2^\circ$  ( $c = 0.29$ ,  $CHCl_3$ );  $[\alpha]_D^{22} = -116.2^\circ$  ( $c = 0.29$ ,  $CHCl_3$ ). **Pharm:** Cytotoxic (*in vitro*, KB cells,  $IC_{50} = (4.4 \pm 0.34) \mu\text{mol/L}$ , control Etoposide,  $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$ )<sup>[5045]</sup>. **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 4409, 5045.

**20639 Taiwaniaquinone G**

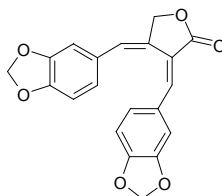
$C_{20}H_{28}O_3$  (316.44). Yellowish amorphous solid,  $[\alpha]_D^{22} = -120.8^\circ$  ( $c = 0.29$ ,  $CHCl_3$ ). **Pharm:** Cytotoxic (*in vitro*, KB cells,  $IC_{50} > 10 \mu\text{mol/L}$ , control Etoposide,  $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$ ). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20640 Taiwaniaquinone H**

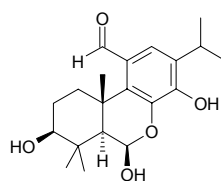
$C_{20}H_{26}O_3$  (314.43). Red-orange amorphous solid,  $[\alpha]_D^{22} = -9.0^\circ$  ( $c = 0.29$ ,  $CHCl_3$ ). **Pharm:** Cytotoxic (*in vitro*, KB cells,  $IC_{50} > 10 \mu\text{mol/L}$ , control Etoposide,  $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$ ). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20641 Taiwanin A**

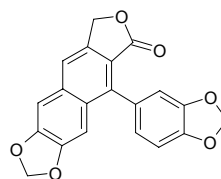
$C_{20}H_{14}O_6$  (350.33). **Pharm:** Cytotoxic (A549,  $ED_{50} = 0.2 \mu\text{mol/L}$ ,  $ED_{50} = 0.4 \mu\text{g/mL}$ , control Adriamycin,  $ED_{50} = 0.01 \mu\text{mol/L}$ ,  $ED_{50} = 0.02 \mu\text{g/mL}$ ; MCF7,  $ED_{50} = 0.2 \mu\text{mol/L}$ ,  $ED_{50} = 0.5 \mu\text{g/mL}$ , Adriamycin,  $ED_{50} = 0.1 \mu\text{mol/L}$ ,  $ED_{50} = 0.1 \mu\text{g/mL}$ ; HT29,  $ED_{50} = 0.1 \mu\text{mol/L}$ ,  $ED_{50} = 0.3 \mu\text{g/mL}$ , Adriamycin,  $ED_{50} = 0.1 \mu\text{mol/L}$ ,  $ED_{50} = 0.1 \mu\text{g/mL}$ ). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 5088.

**20642 Taiwaninal**

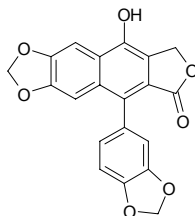
$C_{20}H_{28}O_5$  (348.44). Yellowish solid, mp 160~162°C,  $[\alpha]_D^{25} = -23.5^\circ$  ( $c = 0.19$ ,  $CHCl_3$ ). **Source:** TAI WAN SHAN *Taiwania cryptomerioides*. **Ref:** 2526.

**20643 Taiwanin C**

$C_{20}H_{12}O_6$  (348.32). **Pharm:** Cytotoxic (A549,  $ED_{50} = 5.8 \mu\text{mol/L}$ ,  $ED_{50} = 16.7 \mu\text{g/mL}$ , control Adriamycin,  $ED_{50} = 0.01 \mu\text{mol/L}$ ,  $ED_{50} = 0.02 \mu\text{g/mL}$ ; MCF7,  $ED_{50} = 4.1 \mu\text{mol/L}$ ,  $ED_{50} = 11.7 \mu\text{g/mL}$ , Adriamycin,  $ED_{50} = 0.1 \mu\text{mol/L}$ ,  $ED_{50} = 0.1 \mu\text{g/mL}$ ; HT29,  $ED_{50} = 14.3 \mu\text{mol/L}$ ,  $ED_{50} = 41.1 \mu\text{g/mL}$ , Adriamycin,  $ED_{50} = 0.1 \mu\text{mol/L}$ ,  $ED_{50} = 0.1 \mu\text{g/mL}$ ). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 5088.

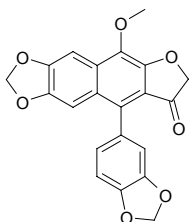
**20644 Taiwanin E**

$C_{20}H_{12}O_7$  (364.31). **Pharm:** Cytotoxic (A549,  $ED_{50} = 1.2 \mu\text{mol/L}$ ,  $ED_{50} = 3.4 \mu\text{g/mL}$ , control Adriamycin,  $ED_{50} = 0.01 \mu\text{mol/L}$ ,  $ED_{50} = 0.02 \mu\text{g/mL}$ ; MCF7,  $ED_{50} = 0.5 \mu\text{mol/L}$ ,  $ED_{50} = 1.4 \mu\text{g/mL}$ , Adriamycin,  $ED_{50} = 0.1 \mu\text{mol/L}$ ,  $ED_{50} = 0.1 \mu\text{g/mL}$ ; HT29,  $ED_{50} = 0.6 \mu\text{mol/L}$ ,  $ED_{50} = 1.5 \mu\text{g/mL}$ , Adriamycin,  $ED_{50} = 0.1 \mu\text{mol/L}$ ,  $ED_{50} = 0.1 \mu\text{g/mL}$ ). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 5088.

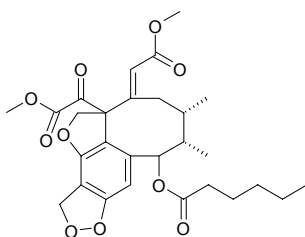


**20645 Taiwanin E methyl ether**

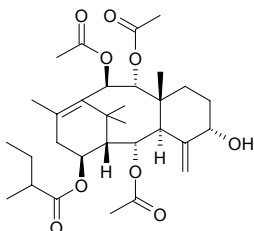
$C_{21}H_{14}O_7$  (378.34). mp 227~230°C. Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*], QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.0045%dw). Ref: 6, 4712.

**20646 Taiwanschirin D**

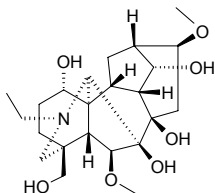
$C_{28}H_{34}O_{10}$  (530.58). Source: *Kadsura matsudai*. Ref: 2436.

**20647 Taiwanxan**

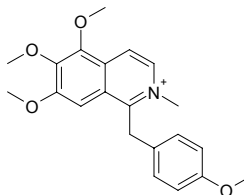
$C_{31}H_{46}O_9$  (562.71). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20648 Takaosamine**

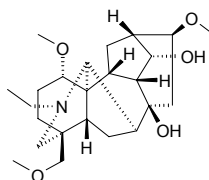
[71239-56-0]  $C_{23}H_{37}NO_7$  (439.55). mp 174~175°C,  $[\alpha]_D^{20} = +61.2^\circ$  ( $c = 0.41$ ,  $CHCl_3$ ). Source: RI BEN WU TOU *Aconitum japonicum*. Ref: 1521.

**20649 Takatonine**

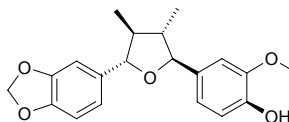
$C_{21}H_{24}NO_4$  (354.43). Source: XIAO TANG SONG CAO *Thalictrum minus*, YAN GUO CAO *Thalictrum thunbergii*. Ref: 6, 1521.

**20650 Talatisamine**

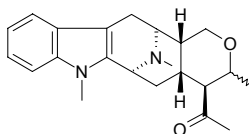
$C_{24}H_{39}NO_5$  (421.58). Colorless crystals, mp 151~152°C. Pharm: Anti-inflammatory; blocks sympathetic ganglia (dog iv, 20mg/kg); antihypertensive; LD<sub>50</sub> (mus iv) = 115mg/kg. Source: BAN HUA WU TOU *Aconitum variegatum*, DA DU WU TOU *Aconitum franchetii* (dried tuberoid: content = 0.017%)<sup>[5508]</sup>, FU ZI *Aconitum carmichaeli*, GAN QING WU TOU *Aconitum tanguticum*, GUA YE WU TOU *Aconitum hemsleyanum*, LIN DI WU TOU *Aconitum nemorum*, MIAN NING WU TOU *Aconitum legendrei*, TA LA WU TOU *Aconitum talassicum*, WU TOU *Aconitum carmichaeli*, ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (tuberoid: yield = 0.019%dw)<sup>[4678]</sup>. Ref: 2, 658, 2203, 3171, 4678, 5508.

**20651 Talaumidin**

(7*S*,7'*S*,8*S*,8'*S*)-4-Hydroxy-3-methoxy-3',4'-methylenedioxy-7,7'-epoxilignan  $C_{20}H_{22}O_5$  (342.40). Pharm: Neurotrophic (primary culture of rat cortical neurons; trophic withdrawal model, 3~30μmol/L, protects cell death caused by deprivation of serum). Source: GONG XING MA DOU LING *Aristolochia arcuata* (root). Ref: 4999.

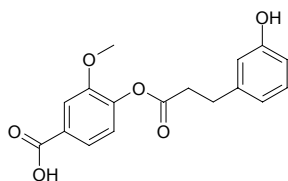
**20652 Talcarpine**

$C_{22}H_{28}N_2O_2$  (352.48). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0026%). Ref: 3020.

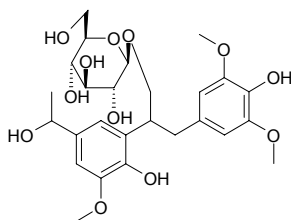


**20653 Tamariscina ester A**

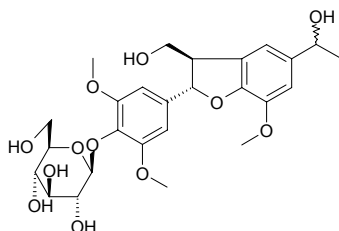
$C_{17}H_{16}O_6$  (316.31). White needles (MeOH), mp 109~110°C. Source: JUAN BAI *Selaginella tamariscina* (whole herb). Ref: 4828.

**20654 Tamariscinoside B**

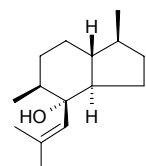
1-Hydroxy-2-[2-hydroxy-3-methoxy-5-(1-hydroxyethyl)-phenyl]-3-(4-hydroxy-3,5-dimethoxy)-propane-1-*O*- $\beta$ -*D*-glucuronopyranoside  $C_{26}H_{36}O_{12}$  (540.57). White amorphous powder, mp 241~242°C,  $[\alpha]_D^{25} = -24^\circ$  ( $c = 0.75$ ,  $H_2O$ ). Source: JUAN BAI *Selaginella tamariscina* (whole herb). Ref: 4835.

**20655 Tamariscinoside C**

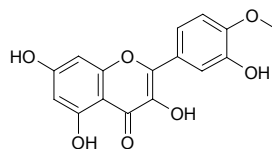
(7*S*,8*R*)-7,8-Dihydro-7-(4-hydroxy-3,5-dimethoxyphenyl)-8-hydroxymethyl-[1'-(7-hydroxyethyl)-5'-methoxyl] benzofuran-4-*O*- $\beta$ -*D*-glucopyranoside  $C_{26}H_{34}O_{12}$  (538.55). Colorless powder, easily soluble in MeOH and  $H_2O$ , mp 238~240°C. Source: JUAN BAI *Selaginella tamariscina* (whole herb). Ref: 4850.

**20656 Tamariscol**

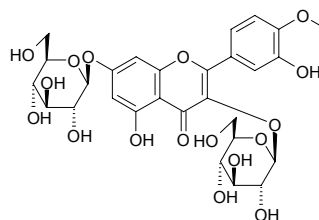
$C_{15}H_{26}O$  (222.37). Source: CHUAN ZHU ER YE TAI *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*]. Ref: 660.

**20657 Tamarixetin**

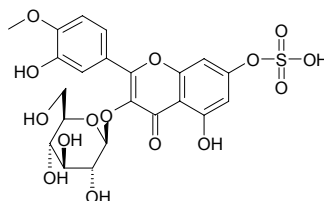
3,5,7,3'-Tetrahydroxy-4'-methoxy flavone  $C_{16}H_{12}O_7$  (316.27). Source: HUANG HUA HAO *Artemisia annua*. Ref: 660.

**20658 Tamarixetin 3-*O*- $\beta$ -*D*-glucopyranoside 7-*O*- $\beta$ -*D*-glucopyranoside**

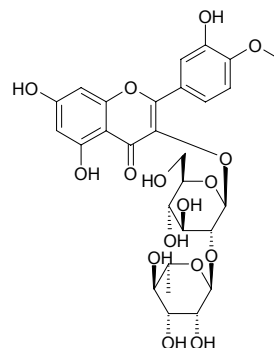
$C_{28}H_{32}O_{17}$  (640.56). Source: *Zanthoxylum* sp. Ref: 2176.

**20659 Tamarixetin 3-glucoside-7-sulphate**

$C_{23}H_{22}O_{15}S$  (538.42). Source: SHUI LIAO *Polygonum hydropiper*. Ref: 660.

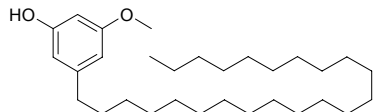
**20660 Tamarixetin 3-*O*-neohesperidoside**

3-[[2-*O*-(6-Deoxy- $\alpha$ -*L*-mannopyranosyl)- $\beta$ -*D*-glucopyranosyl]oxy]-5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4*H*-1-benzopyran-4-one  $C_{28}H_{32}O_{16}$  (624.56). Yellow amorphous powder (MeOH), mp 180~190°C (dec),  $[\alpha]_D^{20} = -78^\circ$  ( $c = 0.001$ , DMSO). Pharm: Nitric oxide production inhibitor inactive ( $IC_{50} > 100\mu g/mL$ ). Source: SUI ZHUANG BI QIAO JIANG *Costus spicatus* (leaf) Ref: 3898.

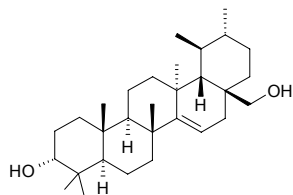


**20661 Tamarixinol**

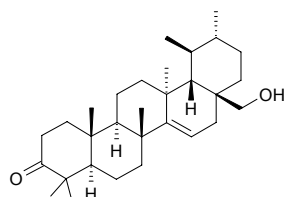
$C_{30}H_{54}O_2$  (446.75). Yellow white granular crystals, mp 77~78°C (anhydrous ethanol), easily soluble in hexane, chloroform and anhydrous ethanol. Source: CHENG LIU *Tamarix chinensis*. Ref: 115.

**20662 Tamarixol**

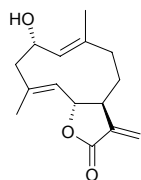
$C_{30}H_{50}O_2$  (442.73). White acicular crystals, mp 252~253°C (acetic ester). Source: CHENG LIU *Tamarix chinensis*. Ref: 115.

**20663 Tamarixone**

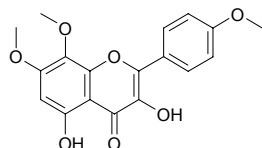
$C_{30}H_{48}O_2$  (440.72). White crystalline powder, mp 238~240°C (anhydrous ethanol). Source: CHENG LIU *Tamarix chinensis*. Ref: 115.

**20664 Tamaulipin A**

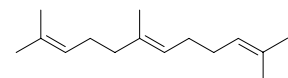
$C_{15}H_{20}O_3$  (248.33). Pharm: Antineoplastic; cytotoxic. Source: MI HUA TUN CAO *Ambrosia confertiflora*, BAI CI GUO TUN CAO *Ambrosia dumosa*. Ref: 658.

**20665 Tambulin**

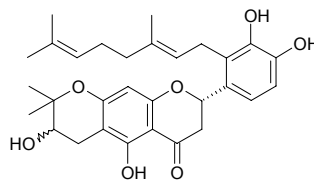
$C_{18}H_{16}O_7$  (344.32). Source: CI HUA JIAO *Zanthoxylum acanthopodium*, SHUANG SE JIN GUANG JU *Rudbeckia bicolor*. Ref: 1521.

**20666 Tanacetene**

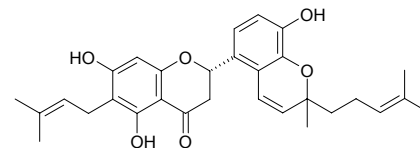
2,6,11-Trimethyl-dodesa-2,6,10-triene  $C_{15}H_{26}$  (206.37). Yellowish oil. Source: CHANG YE AI JU *Tanacetum longifolium*. Ref: 1934.

**20667 Tanariflavanone A**

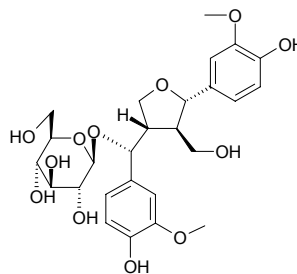
$C_{30}H_{36}O_7$  (508.62). Greenish oil,  $[\alpha]_D^{24.6} = +26.8^\circ$  ( $c = 0.6$ ,  $CHCl_3$ ). Source: XUE TONG *Macaranga tanarius* (fallen leaf). Ref: 3062.

**20668 Tanariflavanone B**

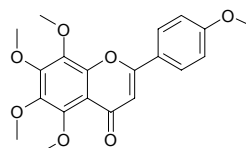
$C_{30}H_{34}O_6$  (490.6). Brownish oil,  $[\alpha]_D^{24.6} = +28.2^\circ$  ( $c = 0.5$ ,  $CHCl_3$ ). Source: XUE TONG *Macaranga tanarius* (fallen leaf). Ref: 3062.

**20669 Tanegoside**

$C_{26}H_{34}O_{12}$  (538.55). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**20670 Tangeretin**

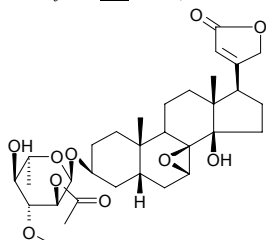
5,6,7,8,4'-Pentamethoxyflavone [481-53-8]  $C_{20}H_{20}O_7$  (372.38). Rods or needles (EtOAc), mp 154°C, mp 150~151°C. Pharm: Antineoplastic (induces leucocyte inhibiting growth of HL-60 leukemia cell, dissolves cancer cell); cytotoxic (number of tumor cell lines, antiproliferative, induces differentiation of HL-60 cells *in vitro* in a concentration-dependent manner)<sup>[5369]</sup>; cytotoxic (inhibits invasion of mus MO4 cells into embryonic chick heart fragments *in vitro*)<sup>[5369]</sup>; antiviral; antibacterial; antifungal; feeding pregnant rat (10mg/kg, death rate of filial generation 83%); smooth muscle relaxant. Source: HUA ZHOU YOU *Citrus grandis* var. *tomentosa*, JIN GAN *Fortunella japonica*, JIN JU *Fortunella margarita*, JU PI *Citrus reticulata*, ZHI SHI *Citrus aurantium*, *Citrus* sp. Ref: 2, 6, 658, 979, 1521, 2194, 2867, 5369.



**20671 Tanghinin**

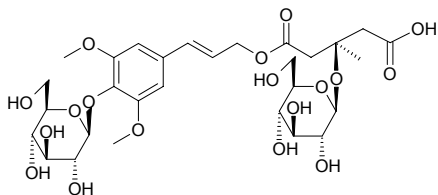
[25390-16-3] C<sub>32</sub>H<sub>46</sub>O<sub>10</sub> (590.72). **Pharm:** Cytotoxic (KB, ED<sub>50</sub> = 1.29 μg/mL, BC, ED<sub>50</sub> = 0.77 μg/mL, NCI-H187, ED<sub>50</sub> = 2.3 μg/mL)<sup>[2594]</sup>; cardiotoxic.

**Source:** NIU XIN QIE ZI *Cerbera manghas*, TAN MANG GUO *Tanghinia venenifera*. **Ref:** 1521, 2594.

**20672 Tangshenoside I**

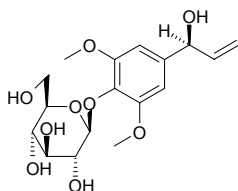
C<sub>29</sub>H<sub>42</sub>O<sub>18</sub> (678.65). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.073%<sup>[5508]</sup>).

**Ref:** 2, 660, 5508.

**20673 Tangshenoside II**

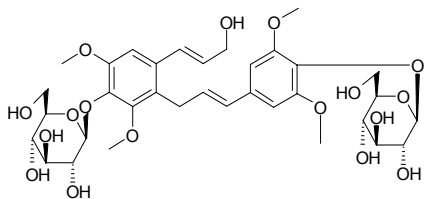
C<sub>17</sub>H<sub>24</sub>O<sub>9</sub> (372.38). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*.

**Ref:** 2, 660.

**20674 Tangshenoside III**

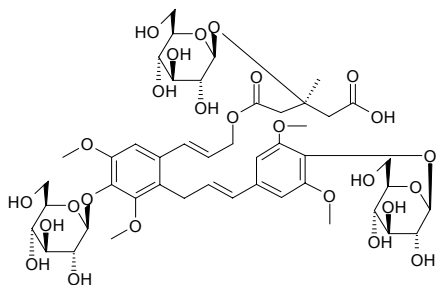
C<sub>34</sub>H<sub>46</sub>O<sub>17</sub> (726.74). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*.

**Ref:** 2, 660.

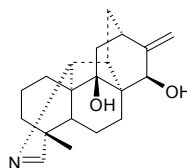
**20675 Tangshenoside IV**

C<sub>46</sub>H<sub>64</sub>O<sub>26</sub> (1033.01). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*.

**Ref:** 2, 660.

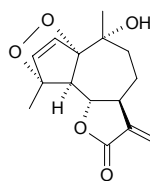
**20676 Tangutimine**

C<sub>20</sub>H<sub>27</sub>NO<sub>2</sub> (313.44). Colorless crystals, mp 252~253°C, [α]<sub>D</sub><sup>20</sup> = +93.0° (c = 0.166, CH<sub>3</sub>OH). **Source:** GAN QING WU TOU *Aconitum tanguticum*. **Ref:** 2203.

**20677 Tanparthin-α-peroxide**

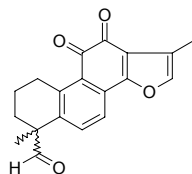
C<sub>15</sub>H<sub>18</sub>O<sub>5</sub> (278.31). **Source:** YI KUA *Artemisia myriantha* (aerial parts).

**Ref:** 4618.

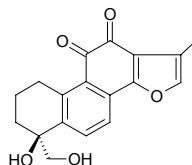
**20678 Tanshinaldehyde**

Tanshinaldehyde II C<sub>19</sub>H<sub>16</sub>O<sub>4</sub> (308.34). Dark red acicular crystals, mp 223~225°C. **Source:** BAI HUA DAN SHEN *Salvia miltiorrhiza* f. *alba*.

**Ref:** 185.

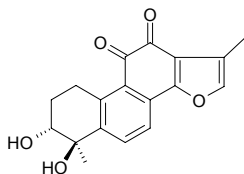
**20679 Tanshindiol A**

(+)-Tanshindiol A [97411-46-6] C<sub>18</sub>H<sub>16</sub>O<sub>5</sub> (312.33). Orange red scale substance (EtOAc), mp 222°C; jacinth acicular crystals, mp 222~223°C, [α]<sub>D</sub> = +10.5° (c = 0.55, methanol). **Pharm:** Tuberculostatic (hmn *Mycobacterium tuberculosis* H37Rv, MIC = 5mg/L); cytotoxic (A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC<sub>50</sub> = 0.2~0.8 μg/mL); restores miocardia force after anoxia (rat, 5 μmol/L, restoring rate = 33.3%). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660, 721, 900, 1521.

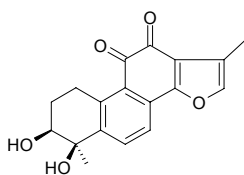


**20680 Tanshindiol B**

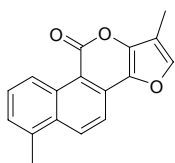
Przewaquinone D [97465-70-8] C<sub>18</sub>H<sub>16</sub>O<sub>5</sub> (312.33). Jacinth lamellar crystals (ethyl acetate), mp 210°C, [α]<sub>D</sub> = -30.0° (c = 0.02, chloroform). **Pharm:** Tuberculostatic (hmn *Mycobacterium tuberculosis* H37Rv MIC = 5mg/L); cytotoxic (A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC<sub>50</sub> = 0.4~1.0μg/mL); restores miocardia force after anoxia (rat, 25μmol/L, restoring rate = 34.3%). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660, 721, 900.

**20681 Tanshindiol C**

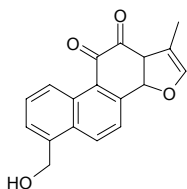
Przewaquinone E [97465-71-9] C<sub>18</sub>H<sub>16</sub>O<sub>5</sub> (312.33). Jacinth lamellar crystals (ethyl acetate), mp 222°C; 213~215°C. **Pharm:** Tuberculostatic (hmn *Mycobacterium tuberculosis* H37Rv MIC = 5mg/L); cytotoxic (A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC<sub>50</sub> = 0.3~0.9μg/mL); restores miocardia force after anoxia (rat, 25μmol/L, restoring rate = 27.5%). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660, 721.

**20682 Tanshinlactone**

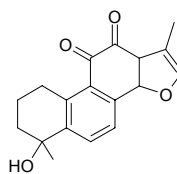
C<sub>17</sub>H<sub>12</sub>O<sub>3</sub> (264.28). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 2.

**20683 Tanshinol A**

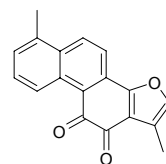
[189290-28-6] C<sub>18</sub>H<sub>12</sub>O<sub>4</sub> (292.29). Amaranth acicular crystals (dichloromethane), mp 230~235°C. **Pharm:** Induces hyperplasia (hmn A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC<sub>50</sub> = 0.7~3.0μg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 721, 1157.

**20684 Tanshinol B**

[319490-69-2] C<sub>18</sub>H<sub>16</sub>O<sub>4</sub> (296.33). Red acicular crystals (dichloromethane), mp 185~189°C, [α]<sub>D</sub> = 0° (c = 0.1, methanol). **Pharm:** Induces hyperplasia (hmn A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC<sub>50</sub> = 0.8~3.7μg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 721, 1157.

**20685 Tanshinone I**

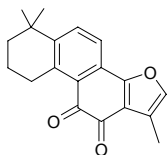
[568-73-0] C<sub>18</sub>H<sub>12</sub>O<sub>3</sub> (276.29). mp 233~234°C. **Pharm:** Antibacterial; estrogenic activity; acetylcholinesterase (AChE) inhibitor (IC<sub>50</sub> > 50μmol/L, Argentinin A, IC<sub>50</sub> = 42.8μmol/L)<sup>[4944]</sup>; MAO A inhibitor (hmn recombinant MAO A, IC<sub>50</sub> = 84μmol/L)<sup>[5032]</sup>; iNOS inhibitor (RAW267.4 cells, LPS-induced, IC<sub>50</sub> = 13.5μmol/L)<sup>[5032]</sup>; immunosuppressant (lymphocyte transformation assay control group concanavalin A, 5μg/mL, InRt = 12%, 20μg/mL, InRt = 22%, 80μg/mL, InRt = 37%, control Dexamethasone, 50μg/mL, InRt = 63%)<sup>[4260]</sup>. **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: mean content = 0.123%<sup>[5508]</sup>), the compound was isolated from the plant by Manzo Nakao et al. in 1941<sup>[5505]</sup>, GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.16%<sup>[5508]</sup>), HONG GEN CAO *Salvia prionitis* (dried root: content = 0.035%<sup>[5508]</sup>), HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = 0.002%<sup>[5508]</sup>), JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.002%<sup>[5508]</sup>), KA LA BA DAN SHEN *Salvia karabachensis*, LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.021%<sup>[5508]</sup>), MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.007%<sup>[5508]</sup>), NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.024%<sup>[5508]</sup>), NI DAN SHEN *Salvia sinica* (dried root: content = 0.009%<sup>[5508]</sup>), SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.154%<sup>[5508]</sup>), YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: mean content = 0.12%<sup>[5508]</sup>), ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.090%<sup>[5508]</sup>). **Ref:** 4, 658, 4260, 4538, 4944, 5032, 5505, 5508.





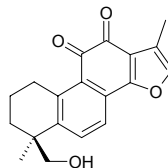
**20686 Tanshinone IIa**

[568-72-9] C<sub>19</sub>H<sub>18</sub>O<sub>3</sub> (294.35). mp 198~200°C. **Pharm:** Antibacterial (*Escherichia coli*, MIC = 50µg/mL; *Staphylococcus aureus* ATCC-25923, MIC = 100µg/mL; *Bacillus pyocyaneus* ATCC-27853, MIC = 50µg/mL; hemolytic streptococcus, MIC = 12.5µg/mL); antithrombotic; used in treatment of myocardial ischemia and myocardial infarction; acetylcholinesterase (AChE) inhibitor (IC<sub>50</sub> > 140µmol/L, Argentatin A, IC<sub>50</sub> = 42.8µmol/L)<sup>[4944]</sup>; iNOS inhibitor (RAW267.4 cells, LPS-induced, IC<sub>50</sub> > 50µmol/L)<sup>[5032]</sup>; anti-inflammatory (NO, IL-1β, IL-6 and TNF-α production inhibitor, suppresses expression of iNOS)<sup>[5481]</sup>; immunosuppressant (lymphocyte transformation assay, control group Concanavalin A, 5µg/mL, InRt = -24%, 20µg/mL, InRt = 35%, 80µg/mL, InRt = 46%, control Dexamethasone, 50µg/mL, InRt = 63%)<sup>[4260]</sup>. **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: content scope = 0.068%~1.52%, mean content = 0.609%<sup>[5508]</sup>), GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: mean content = 0.942%<sup>[5508]</sup>), HONG GEN CAO *Salvia prionitis* (dried root: content = 0.019%<sup>[5508]</sup>), HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = trace)<sup>[5508]</sup>, JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.004%<sup>[5508]</sup>), LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.168%<sup>[5508]</sup>), MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.118%<sup>[5508]</sup>), NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.095%<sup>[5508]</sup>), NAN OU DAN SHEN *Salvia sclarea*, NI DAN SHEN *Salvia sinica* (dried root: content = 0.002%<sup>[5508]</sup>), SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.462%<sup>[5508]</sup>), YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.193%<sup>[5508]</sup>), ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.398%<sup>[5508]</sup>). **Ref:** 2, 4, 658, 4260, 4538, 4909, 4944, 5032, 5481, 5501, 5508.

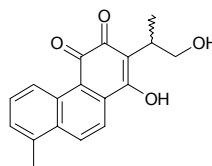
**20687 Tanshinone IIb**

C<sub>19</sub>H<sub>18</sub>O<sub>4</sub> (310.35). mp 200~204°C. **Pharm:** Antibacterial (*Escherichia coli*, MIC = 25µg/mL; *Staphylococcus aureus* ATCC-25923, MIC = 50µg/mL; *Bacillus pyocyaneus* ATCC-27853, MIC = 25µg/mL; hemolytic streptococcus, MIC = 25µg/mL; *Staphylococcus aureus* and its drug-resistant strains). **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.020%<sup>[5508]</sup>), GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.015%<sup>[5508]</sup>), HONG GEN CAO *Salvia prionitis* (dried root: content = 0.001%<sup>[5508]</sup>), HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = trace<sup>[5508]</sup>), JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = trace<sup>[5508]</sup>), LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.003%<sup>[5508]</sup>), MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content =

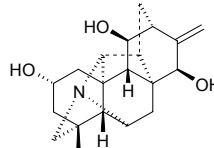
0.001%<sup>[5508]</sup>), NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.006%<sup>[5508]</sup>), NI DAN SHEN *Salvia sinica* (dried root: content = 0.001%<sup>[5508]</sup>), SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.034%<sup>[5508]</sup>), YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.015%<sup>[5508]</sup>), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.026%<sup>[5508]</sup>). **Ref:** 2, 4, 658, 4909, 5508.

**20688 Tanshinone VI**

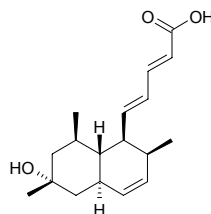
[121064-74-2] C<sub>18</sub>H<sub>16</sub>O<sub>4</sub> (296.32). Jacinth acicular crystals, mp 185~189°C (dec), [α]<sub>D</sub><sup>30</sup> = +47.0° (c = 0.1, chloroform). **Pharm:** Protects cardiac muscle from lack of blood; restores miocardia force after anoxia. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 932, 1162.

**20689 Tanwusine**

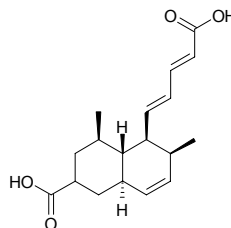
C<sub>20</sub>H<sub>27</sub>NO<sub>3</sub> (329.44). **Source:** GAN QING WU TOU *Aconitum tanguticum*. **Ref:** 660.

**20690 Tanzawaic acid E**

C<sub>18</sub>H<sub>26</sub>O<sub>3</sub> (290.41). Yellowish oil, [α]<sub>D</sub><sup>20</sup> = +45.5° (c = 0.110, MeOH). **Source:** *Penicillium steckii*. **Ref:** 3960.

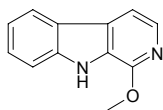
**20691 Tanzawaic acid F**

C<sub>18</sub>H<sub>24</sub>O<sub>4</sub> (304.39). Yellowish oil, [α]<sub>D</sub><sup>20</sup> = +10.0° (c = 0.040, MeOH). **Source:** *Penicillium steckii*. **Ref:** 3960.

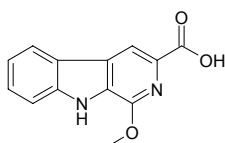


**20692 Taraxacine A**

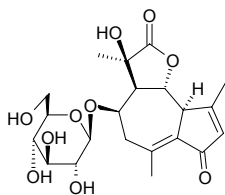
$C_{12}H_{10}N_2O$  (198.23). Pale yellow syrup. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh aerial parts). Ref: 4345.

**20693 Taraxacine B**

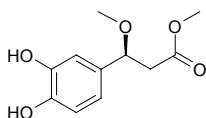
$C_{13}H_{10}N_2O_3$  (242.24). Pale yellow syrup. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh aerial parts). Ref: 4345.

**20694 Taraxafolide**

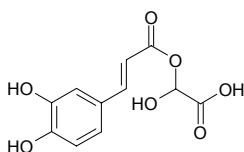
$C_{21}H_{28}O_{10}$  (440.45). Colorless oil,  $[\alpha]_D = -9.47^\circ$  ( $c = 0.09$ ,  $H_2O$ ). Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). Ref: 4488.

**20695 Taraxafolin**

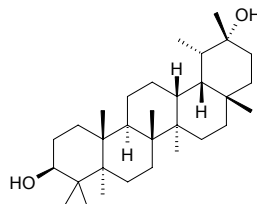
$C_{11}H_{14}O_5$  (226.23). Colorless syrup. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh aerial parts). Ref: 4345.

**20696 (+)-Taraxafolin B**

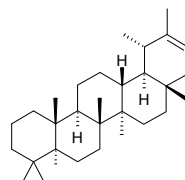
$C_{11}H_{10}O_7$  (254.20). Brown powder (MeOH). mp > 280°C,  $[\alpha]_D = +130^\circ$  ( $c = 0.56$ ,  $H_2O$ ). Pharm: Antioxidant (DPPH scavenger, weaker than control Vitamin E). Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). Ref: 4488.

**20697 Taraxastane-3β,20α-diol**

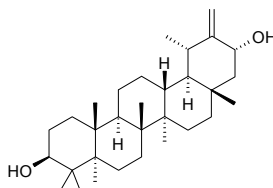
$C_{30}H_{50}O_2$  (444.75). Pharm: Cytotoxic (SMMC-7721,  $IC_{50} = (104.1 \pm 4.3) \mu g/mL$ , control Vincristine,  $IC_{50} = (63.2 \pm 1.8) \mu g/mL$ ; B16,  $IC_{50} = (79.7 \pm 5.6) \mu g/mL$ , Vincristine,  $IC_{50} = (70.7 \pm 2.8) \mu g/mL$ ; HeLa,  $IC_{50} = (71.8 \pm 4.4) \mu g/mL$ , Vincristine,  $IC_{50} = (67.2 \pm 2.2) \mu g/mL$ ); antibacterial (*Bacillus subtilis*, IZD =  $(13.7 \pm 0.7) mm$ , control Chloramphenicol, IZD =  $(14.5 \pm 1.1) mm$ ; *Escherichia coli*, IZD =  $(14.8 \pm 0.8) mm$ , Chloramphenicol, IZD =  $(14.9 \pm 1.3) mm$ ; *Staphylococcus aureus*, IZD =  $(14.5 \pm 1.6) mm$ , Chloramphenicol, IZD =  $(15.1 \pm 1.2) mm$ ). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

**20698 ψ-Taraxastene**

20-Taraxastene  $C_{30}H_{50}$  (410.73). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 660.

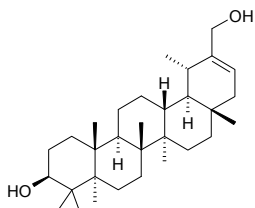
**20699 Taraxast-20(30)-ene-3β,21α-diol**

$C_{30}H_{50}O_2$  (442.73). Colorless crystals, mp 256~258°C ( $CHCl_3$ -MeOH),  $[\alpha]_D^{25} = +225^\circ$  ( $c = 0.09$ ,  $CHCl_3$ ). Pharm: Cytotoxic (SMMC-7721,  $IC_{50} = (125.3 \pm 4.7) \mu g/mL$ , control Vincristine,  $IC_{50} = (63.2 \pm 1.8) \mu g/mL$ ; B16,  $IC_{50} = (87.4 \pm 4.7) \mu g/mL$ , Vincristine,  $IC_{50} = (70.7 \pm 2.8) \mu g/mL$ ; HeLa,  $IC_{50} = (98.7 \pm 2.2) \mu g/mL$ , Vincristine,  $IC_{50} = (67.2 \pm 2.2) \mu g/mL$ ); antibacterial (*Bacillus subtilis*, IZD =  $(11.5 \pm 0.7) mm$ , control Chloramphenicol, IZD =  $(14.5 \pm 1.1) mm$ ; *Escherichia coli*, IZD =  $(14.5 \pm 1.9) mm$ , Chloramphenicol, IZD =  $(14.9 \pm 1.3) mm$ ; *Staphylococcus aureus*, IZD =  $(8.5 \pm 1.9) mm$ , Chloramphenicol, IZD =  $(15.1 \pm 1.2) mm$ ). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

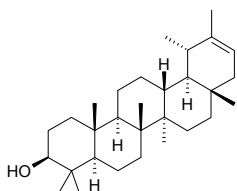


**20700 Taraxast-20-ene-3 $\beta$ ,30-diol**

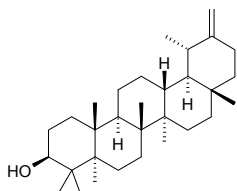
$C_{30}H_{50}O_2$  (442.73). Colorless crystals, mp 198–200°C (CHCl<sub>3</sub>–MeOH),  $[\alpha]_D^{25} = +116^\circ$  ( $c = 0.35$ , CHCl<sub>3</sub>). **Pharm:** Cytotoxic (SMMC-7721, IC<sub>50</sub> = (176.3±2.4)μg/mL, control Vincristine, IC<sub>50</sub> = (63.2±1.8)μg/mL; B16, IC<sub>50</sub> = (20.1±2.6)μg/mL, Vincristine, IC<sub>50</sub> = (70.7±2.8)μg/mL; HeLa, IC<sub>50</sub> = (86.3±5.0)μg/mL, Vincristine, IC<sub>50</sub> = (67.2±2.2)μg/mL); antibacterial (*Bacillus subtilis*, IZD = (14.0±1.0)mm, control Chloramphenicol, IZD = (14.5±1.1)mm; *Escherichia coli*, IZD = (13.7±1.4)mm, Chloramphenicol, IZD = (14.9±1.3)mm; *Staphylococcus aureus*, IZD = (14.7±1.5)mm, Chloramphenicol, IZD = (15.1±1.2)mm). **Source:** *Saussurea petrovii* (whole herb). **Ref:** 5219.

**20701 Taraxast-20-ene-3 $\beta$ -ol**

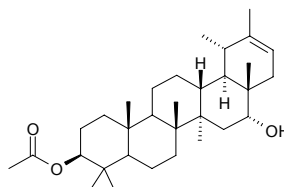
$C_{30}H_{50}O$  (426.73). **Pharm:** Cytotoxic (SMMC-7721, IC<sub>50</sub> = (131.8±1.9)μg/mL, control Vincristine, IC<sub>50</sub> = (63.2±1.8)μg/mL; B16, IC<sub>50</sub> = (86.4±4.5)μg/mL, Vincristine, IC<sub>50</sub> = (70.7±2.8)μg/mL; HeLa, IC<sub>50</sub> = (123.6±2.2)μg/mL, Vincristine, IC<sub>50</sub> = (67.2±2.2)μg/mL); antibacterial (*Bacillus subtilis*, IZD = (12.0±0.6)mm, control Chloramphenicol, IZD = (14.5±1.1)mm; *Escherichia coli*, IZD = (13.6±0.6)mm, Chloramphenicol, IZD = (14.9±1.3)mm; *Staphylococcus aureus*, IZD = (9.1±1.4)mm, Chloramphenicol, IZD = (15.1±1.2)mm). **Source:** *Saussurea petrovii* (whole herb). **Ref:** 5219.

**20702 Taraxast-20(30)-ene-3 $\beta$ -ol**

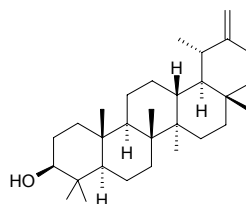
$C_{30}H_{50}O$  (426.73). **Pharm:** Cytotoxic (SMMC-7721, IC<sub>50</sub> = (142.7±3.3)μg/mL, control Vincristine, IC<sub>50</sub> = (63.2±1.8)μg/mL; B16, IC<sub>50</sub> = (98.2±3.1)μg/mL, Vincristine, IC<sub>50</sub> = (70.7±2.8)μg/mL; HeLa, IC<sub>50</sub> = (117.3±4.6)μg/mL, Vincristine, IC<sub>50</sub> = (67.2±2.2)μg/mL); antibacterial (*Bacillus subtilis*, IZD = (11.1±1.2)mm, control Chloramphenicol, IZD = (14.5±1.1)mm; *Escherichia coli*, IZD = (12.8±1.3)mm, Chloramphenicol, IZD = (14.9±1.3)mm; *Staphylococcus aureus*, IZD = (8.3±0.5)mm, Chloramphenicol, IZD = (15.1±1.2)mm). **Source:** *Saussurea petrovii* (whole herb). **Ref:** 5219.

**20703 Taraxaster-20-en-3 $\beta$ ,16 $\alpha$ -diol-3-acetate**

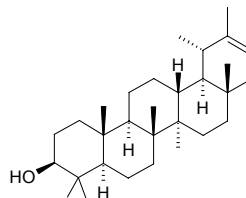
$C_{32}H_{52}O_3$  (484.77). Colorless acicular crystals (CHCl<sub>3</sub>), mp 244–246°C,  $[\alpha]_D^{20} = -32.0^\circ$  ( $c = 0.1$ , CHCl<sub>3</sub>). **Source:** BAO JING KU MAI CAI *Ixeris sonchifolia*. **Ref:** 2110.

**20704 Taraxasterol**

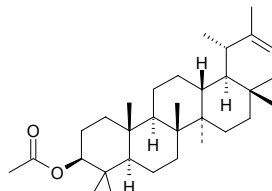
[1059-14-9]  $C_{30}H_{50}O$  (426.73). **Source:** JIN FEI CAO *Inula japonica*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], PU GONG YING *Taraxacum mongolicum*, XUAN FU HUA *Inula britannica*, YAO YONG PU GONG YING *Taraxacum officinale*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*. **Ref:** 2, 660.

**20705  $\psi$ -Taraxasterol**

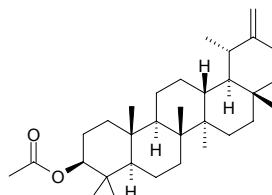
$C_{30}H_{50}O$  (426.73). mp 217–219°C. **Source:** YAO YONG PU GONG YING *Taraxacum officinale*. **Ref:** 6, 660.

**20706  $\psi$ -Taraxasteryl acetate**

$C_{32}H_{52}O_2$  (468.77). **Source:** DA JI<sup>(4)</sup> *Cirsium japonicum*, XIAO JI *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], XU DUAN JU *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*]. **Ref:** 660.

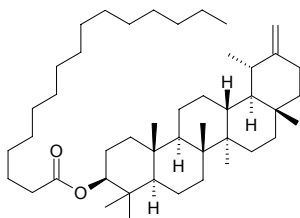
**20707 Taraxasteryl acetate**

$C_{32}H_{52}O_2$  (468.77). mp 256–257°C. **Source:** CHENG GAN CAO *Eupatorium japonicum*, DA JI<sup>(4)</sup> *Cirsium japonicum*. **Ref:** 6.

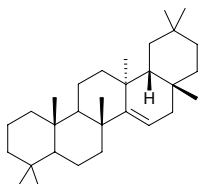


**20708 Taraxasteryl palmitate**

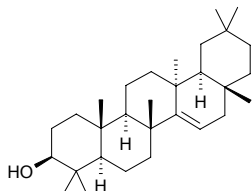
$C_{46}H_{80}O_2$  (665.15). **Source:** CHENG GAN CAO *Eupatorium japonicum*, E BU SHI CAO *Centipeda minima*, PEI LAN *Eupatorium fortunei*, ZAN SHI LONG DAN *Gentiana thunbergii*. **Ref:** 6, 660.

**20709 Taraxer-14-ene**

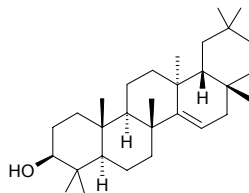
$C_{30}H_{50}$  (410.73). **Source:** DAO LUAN YE FU SHI JUE *Lemmaphyllum microphyllum* var. *obovatum*, SHUI LONG GU *Polypodium niponicum*. **Ref:** 660.

**20710 Taraxer-14-en-3β-ol**

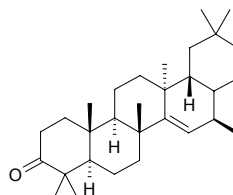
$C_{30}H_{50}O$  (426.73). mp 278~280°C,  $[\alpha]_D^{20} = +2^\circ$ . **Pharm:** Anti-inflammatory (*in vivo*, mouse ear edema induced by TPA, 0.5mg/ear, orl, InRt = 57.06%). **Source:** JIA MA SHU *Sterculia foetida* (leaf). **Ref:** 4924.

**20711 Taraxerol**

[127-22-0]  $C_{30}H_{50}O$  (426.73). mp 282~283°C. **Pharm:** Antilucerative; inhibits gastric acid secretion; cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines,  $IC_{50} > 100\mu\text{mol/L}$ )<sup>[3057]</sup>; cytotoxic inactive (A2780 ovarian cancer cell line,  $IC_{50} = 16.6\text{mg/mL}$ )<sup>[5379]</sup>; inhibits degranulation and release of  $\beta$ -hexosaminidase (RBL-2H3 cells, 100 $\mu\text{mol/L}$ , InRt = (-3.0±0.9)%, control Curcumin, 100 $\mu\text{mol/L}$ , InRt = (62.6±1.0)%, did not affect the enzyme activity of  $\beta$ -hexosaminidase)<sup>[4163]</sup>; antioxidant inactive (*in vitro*, DPPH scavenger,  $IC_{50} > 500\mu\text{mol/L}$ ; control Vitamin E,  $IC_{50} = 20.1\mu\text{mol/L}$ )<sup>[4784]</sup>. **Source:** BIAN TAO *Mangifera persiciformis*, CHUAN DANG SHEN *Codonopsis tangshen* (dried root: content = 0.0117%)<sup>[5508]</sup>, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.0100%)<sup>[5508]</sup>, JIN CAO *Hedyotis acutangula*, MU SHU DI SHANG BU FEN *Manihot esculenta*, QIU HUA DANG SHEN *Codonopsis subglobosa* (dried root: content = 0.0050%)<sup>[5508]</sup>, QUE MEI TENG *Sageretia theezans* [Syn. *Sageretia thea*], RI BEN AN XI XIANG JING PI *Styrax japonica* (stem cortex: yield = 0.00073%dw)<sup>[4787]</sup>, SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (dried root: mean content = 0.0276%)<sup>[5508]</sup>, YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.014%), YAO YONG PU GONG YING *Taraxacum officinale*, YI HE GUO *Ventilago leiocarpa* (stem)<sup>[3057]</sup>, *Diospyros* sp., *Lithocarpus* sp., *Canarium* sp. **Ref:** 2, 515, 550, 658, 660, 3057, 4163, 4787, 5379, 5508.

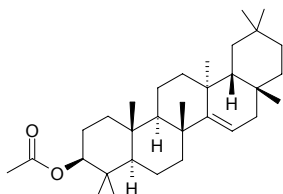
**20712 Taraxerone**

$C_{30}H_{48}O$  (424.72). mp 242~244°C. **Pharm:** Cytotoxic inactive (A2780 ovarian cancer cell line,  $IC_{50} = 25.8\text{mg/mL}$ )<sup>[5379]</sup>. **Source:** FU RONG JU GEN *Crossostephium chinense*, HUO YANG LE *Euphorbia antiquorum*, JU QU *Cichorium intybus*, MU SHU DI SHANG BU FEN *Manihot esculenta*. **Ref:** 6, 620, 5379.

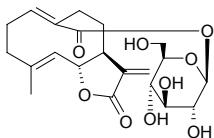


**20713 Taraxeryl acetate**

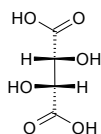
$C_{32}H_{52}O_2$  (468.77). mp 301~302°C ( $C_6H_6$ -EtOAc), 304~305°C. Source: BI LI *Ficus pumila*, CHUAN DANG SHEN *Codonopsis tangshen* (dried root: content = 0.0077%<sup>[5508]</sup>), CI SAN JIA *Acanthopanax trifoliatum*, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.0041%<sup>[5508]</sup>), FU SANG YE *Hibiscus rosa-sinensis*, FU RONG JU GEN *Crossostephium chinense*, MAO LIAN HAO *Artemisia vestita*, QIU HUA DANG SHEN *Codonopsis subglobosa*, SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (dried root: content = 0.0075%<sup>[5508]</sup>), XIE WEI JU *Koelipnia linearis* (aerial parts). Ref: 2, 6, 474, 660, 3912, 5508.

**20714 Taraxinic acid-1'-O-β-D-glucopyranoside**

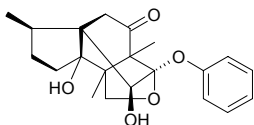
$C_{21}H_{28}O_9$  (424.45). Colorless needles (EtOH-Et<sub>2</sub>O), mp 186~188°C,  $[\alpha]_D^{22} = -57.7^\circ$  (CH<sub>3</sub>OH,  $c = 0.45$ ). Pharm: Antiulcer (gastrelcoma, mus *in vivo*, protects gastric mucosa, in dose 80mg/kg orl effectly inhibits stomach damaga due to aspirin). Source: DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), YUAN JING HUAN YANG SHEN *Crepis napifera*. Ref: 2216, 4488, 5357.

**20715 Tartaric acid**

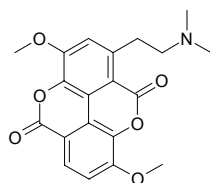
2,3-Dihydroxybutanedioic acid [526-83-0]  $C_4H_6O_6$  (150.09). mp (L) 170°C. Source: CU LIU GUO *Hippophae rhamnoides*, DA ZAO *Ziziphus jujuba*, DU ZHONG *Eucommia ulmoides*, HU ZHANG YE *Polygonum cuspidatum*, PU<sup>(2)</sup> TAO *Vitis vinifera*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], SUAN JIAO *Tamarindus indica*, *Pelargonium* sp. Ref: 2, 660.

**20716 Tashironin**

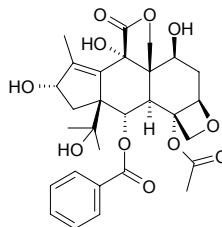
$C_{21}H_{26}O_5$  (358.44). Pharm: Neurotrophic bioassay inactive (primary culture of rat cortical neurons, 0.1~10μmol/L). Source: *Illicium merrillianum* (pericarp). Ref: 3046.

**20717 Taspine**

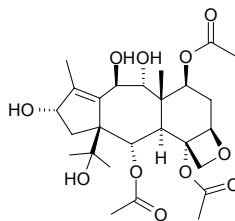
Thaspine  $C_{20}H_{19}NO_6$  (369.38). Pharm: Antibacterial (*Mycobacterium tuberculosis*, EC = 1:1000000); antineoplastic (RNA tumor virus); anti-inflammatory (rat, swollen foot model caused by carrageenan); LD<sub>50</sub> (orl, chloride) = 518mg/kg. Source: DE LA KE BA DOU *Croton draconoide*, HONG MAO QI *Leontice robustum*, LAI KE BA DOU *Croton lechleri*, SI MI SHI MU DAN CAO *Leontice smirnowii*. Ref: 6, 658, 660.

**20718 Tasumatrol A**

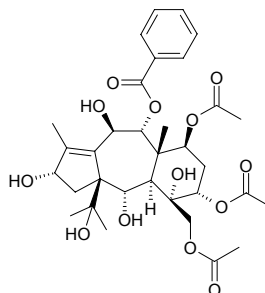
$C_{29}H_{34}O_{11}$  (558.59). Amorphous solid,  $[\alpha]_D^{25} = -12^\circ$  ( $c = 0.1$ , MeOH). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4359.

**20719 Tasumatrol B**

$C_{26}H_{38}O_{11}$  (526.59). Amorphous solid,  $[\alpha]_D^{25} = -7.6^\circ$  ( $c = 0.2$ , MeOH). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4359.

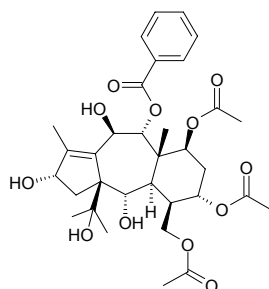
**20720 Tasumatrol E**

$C_{33}H_{44}O_{13}$  (648.71). Colorless powder,  $[\alpha]_D^{25} = +36^\circ$  ( $c = 0.1$ , MeOH). Pharm: Cytotoxic (*in vitro*, 30μg/mL: A498, InRt = 100%; NCI-H226, InRt = 84.8%; A549, InRt = 91.3%; PC3, InRt = 94.7%; control Taxol, 30μg/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4800.

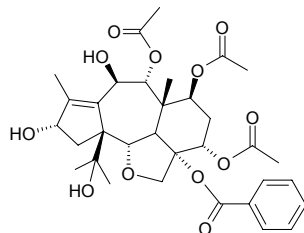


**20721 Tasumatrol F**

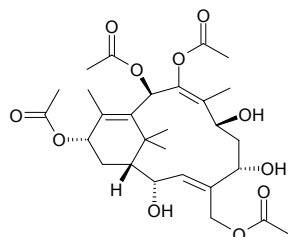
$C_{33}H_{44}O_{12}$  (632.71). Colorless powder,  $[\alpha]_D^{25} = +28^\circ$  ( $c = 0.1$ , MeOH). **Pharm:** Cytotoxic (*in vitro*, 30 $\mu$ g/mL: A498, InRt = 83.0%; NCI-H226, InRt = 78.5%; A549, InRt = 72.6%; PC3, InRt = 95.0%; control Taxol, 30 $\mu$ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4800.

**20722 Tasumatrol G**

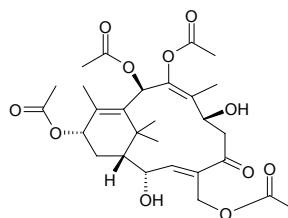
$C_{33}H_{42}O_{12}$  (630.70). Colorless powder,  $[\alpha]_D^{25} = -32^\circ$  ( $c = 0.1$ , MeOH). **Pharm:** Cytotoxic (*in vitro*, 30 $\mu$ g/mL: A498, InRt = 15.3%; NCI-H226, InRt = 78.9%; A549, InRt = 24.1%; PC3, InRt = 58.9%; control Taxol, 30 $\mu$ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4800.

**20723 Tasumatrol M**

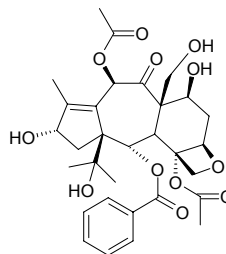
$C_{28}H_{40}O_{11}$  (552.62). Colorless powder,  $[\alpha]_D^{25} = +43^\circ$  ( $c = 0.2$ , MeOH). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4479.

**20724 Tasumatrol N**

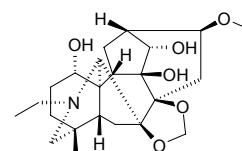
$C_{28}H_{38}O_{11}$  (550.61). Colorless powder,  $[\alpha]_D^{25} = +14^\circ$  ( $c = 0.2$ , MeOH). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4479.

**20725 Tasumatrol O**

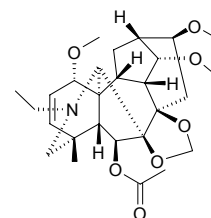
$C_{31}H_{38}O_{12}$  (602.64). Colorless powder,  $[\alpha]_D^{25} = -40^\circ$  ( $c = 0.2$ , MeOH). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). **Ref:** 4479.

**20726 Tatsidine**

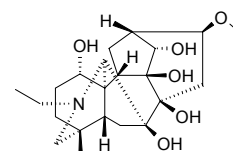
$C_{23}H_{35}NO_6$  (421.54). **Source:** KANG DING CUI QUE HUA *Delphinium tatsienense*. **Ref:** 660.

**20727 Tatsiensine**

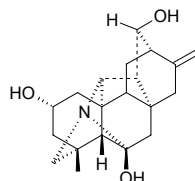
$C_{27}H_{39}NO_7$  (489.61). White amorphous powder. **Source:** QIN LING CUI QUE HUA *Delphinium giraldii*, KANG DING CUI QUE HUA *Delphinium tatsienense*, ZHAN MAO CUI QUE HUA *Delphinium kamaonense* var. *glabrescens*. **Ref:** 660, 2506.

**20728 Tatsinine**

$C_{22}H_{35}NO_6$  (409.53). **Source:** KANG DING CUI QUE HUA *Delphinium tatsienense*. **Ref:** 660.

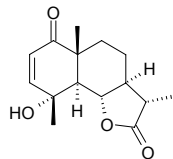
**20729 Tatsirine**

$C_{20}H_{27}NO_3$  (329.44). **Source:** KANG DING CUI QUE HUA *Delphinium tatsienense*. **Ref:** 660.

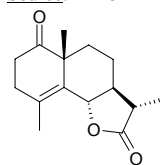


**20730 Tauremisin A**

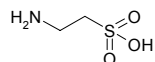
Vulgarin; Tauremisin; Judaicin  $C_{15}H_{20}O_4$  (264.32). Colorless acicular crystals (ethanol), mp 174–175°C,  $[\alpha]_{546nm}^{27} = +48.7^\circ$  ( $c = 3.86$ , chloroform). **Pharm:** Antineoplastic; cardiotoxic; cytotoxic; diuretic (rat, orl, 10mg/kg, amount of urine increases 44%); CNS activity (increases coronary flow and slows heart rate, cat and rbt, 1mg/kg iv). **Source:** NIU HAO *Artemisia taurica*, BEI AI *Artemisia vulgaris*, LU DE WEI HAO *Artemisia ludoviciana*. **Ref:** 660, 661.

**20731 Taurin**

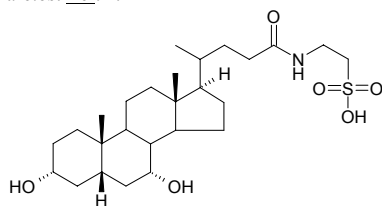
[23522-05-6]  $C_{15}H_{20}O_3$  (248.32). Colorless acicular crystals, mp 110–113°C. **Source:** MAO LIAN HAO *Artemisia vestita*. **Ref:** 474.

**20732 Taurine**

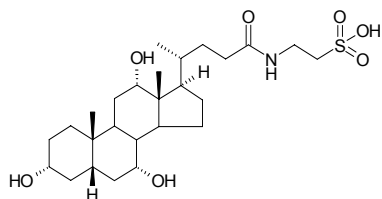
[107-35-7]  $C_2H_7NO_3S$  (125.15). mp 317°C (dec), 328°C. **Pharm:** Antiarrhythmic; antibacterial (*Staphylococcus* spp.); anti-inflammatory; antipyretic; cardiotoxic; choleric; antihepatotoxic; hypoglycemic (rbt, iv; dog, orl); antihypertensive (rat, cat and rbt, injection in ventricle); skeletal muscle relaxant; antagonist to muscle rigidity. **Source:** QUAN XIE *Buthus martensi*, GOU QI ZI *Lycium chinense*, NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis* (gallstone: content scope = 0.54%–0.89%<sup>[5501]</sup>). **Ref:** 2, 658, 660, 5501.

**20733 Taurochenodeoxycholic acid**

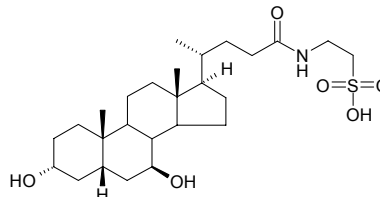
$C_{26}H_{45}NO_6S$  (499.72). **Source:** XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. **Ref:** 2.

**20734 Taurocholic acid**

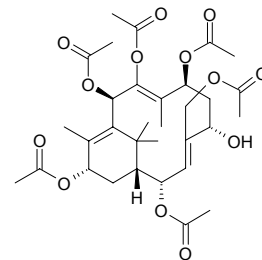
Cholaic acid; Cholytaurine; N-Choloyl-taurine [81-24-3]  $C_{26}H_{45}NO_7S$  (515.72). mp 125°C (dec). **Pharm:** Lipase accelerator; Choleric (bile secretion promotor). **Source:** XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. **Ref:** 2, 658.

**20735 Tauroursodeoxycholic acid**

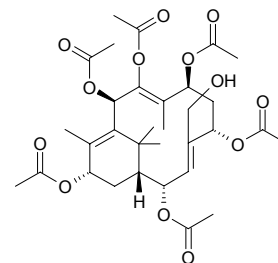
$C_{26}H_{45}NO_6S$  (499.72). **Source:** XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. **Ref:** 1496, 1521.

**20736 Taxachitriene A**

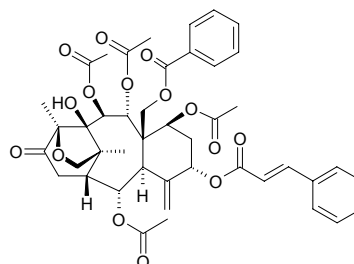
$C_{32}H_{44}O_{13}$  (636.70). mp 99–101°C,  $[\alpha]_D = -9.9^\circ$  ( $CHCl_3$ ). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20737 Taxachitriene B**

$C_{32}H_{44}O_{13}$  (636.70). mp 22.5–22.7°C,  $[\alpha]_D = +29^\circ$  ( $CHCl_3$ ). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20738 Taxacin**

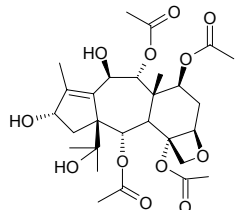
$C_{44}H_{48}O_{15}$  (816.86). **Source:** ZI SHAN *Taxus cuspidata* (seed). **Ref:** 660, 662.



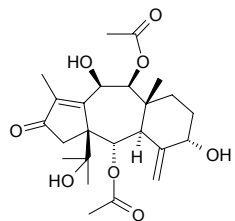
**20739 Taxacustin**

10,13-Deacetyl-abeo-baccatin IV  $C_{28}H_{40}O_{12}$  (568.62). mp 225–227°C,  $[\alpha]_D = -38.4^\circ$  (MeOH); mp 220–222°C,  $[\alpha]_D = -34^\circ$  (MeOH). **Pharm:** Cytotoxic (*in vitro*, 30  $\mu\text{g}/\text{mL}$ : A498, InRt = 21.7%; NCI-H226, InRt = 19.9%; A549, InRt = 27.1%; PC3, InRt = 1.9%; control Taxol, 30  $\mu\text{g}/\text{mL}$ : A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)<sup>[4800]</sup>.

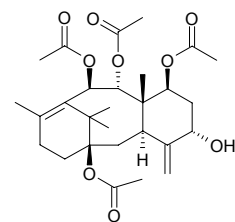
**Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)<sup>[4800]</sup>, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, ZI SHAN *Taxus cuspidata*. **Ref:** 291, 662, 4800.

**20740 Taxacustone**

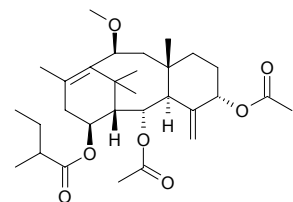
$C_{24}H_{34}O_8$  (450.53).  $[\alpha]_D = -14.6^\circ$  ( $\text{CHCl}_3$ ), mp 268–270°C. **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20741 Taxa-4(20),11-diene-5 $\alpha$ -hydroxy-1 $\beta$ ,7 $\beta$ ,9 $\alpha$ ,10 $\beta$ -tetraacetate**

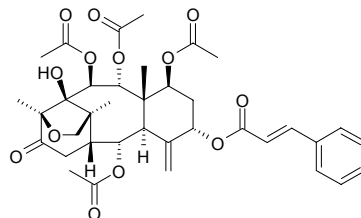
$C_{28}H_{40}O_9$  (520.63). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20742 Taxa-4(20),11-diene-10 $\beta$ -methoxy-2 $\alpha$ ,5 $\alpha$ -diacetoxo-14 $\beta$ -( $\alpha$ -methyl)butyrate**

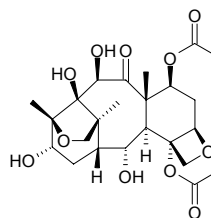
$C_{30}H_{46}O_7$  (518.70). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20743 Taxagifin**

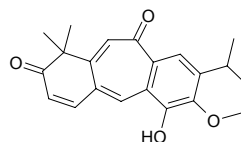
[81489-69-2]  $C_{37}H_{44}O_{13}$  (696.76). Colorless needles. **Pharm:** Cytotoxic ( $L_{1210}$ ,  $IC_{50} = 1.3 \mu\text{g}/\text{mL}$ ; KB,  $IC_{50} = 0.86 \mu\text{g}/\text{mL}$ ). **Source:** HONG DOU SHAN *Taxus chinensis*, JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf), JIANG GUO ZI SHAN *Taxus baccata*, ZI SHAN *Taxus cuspidata* (seed). **Ref:** 660, 662, 1775, 3958.

**20744 Taxagifin III**

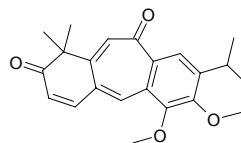
$C_{24}H_{34}O_{11}$  (498.53).  $[\alpha]_D = +31.4^\circ$  (MeOH), mp 246–247°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20745 Taxamairin A**

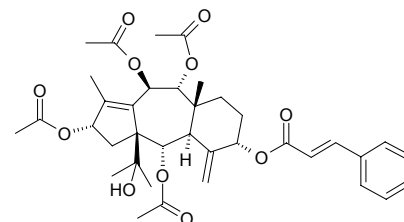
[110300-76-0]  $C_{21}H_{22}O_4$  (338.40). Golden crystals (ethanol), mp 223–224°C. **Pharm:** Antineoplastic (hepatocarcinoma,  $IC_{50} = 30.21 \mu\text{g}/\text{mL}$ ). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*. **Ref:** 968, 1183.

**20746 Taxamairin B**

[110300-77-1]  $C_{22}H_{24}O_4$  (352.43). mp 138–139°C (ethanol). **Pharm:** Antineoplastic (hepatocarcinoma,  $IC_{50} = 26.78 \mu\text{g}/\text{mL}$ ). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*. **Ref:** 968, 1183.

**20747 Taxamedin A**

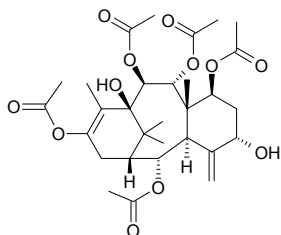
$C_{37}H_{46}O_{11}$  (666.77). **Source:** ZA JIAO JIE ZHI HONG DOU SHAN *Taxus media*. **Ref:** 662.



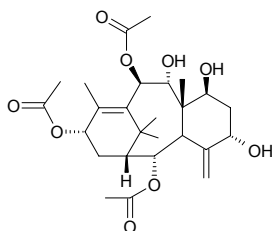


**20748 Taxane 1**

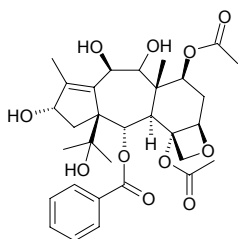
2,7,9,10,13-Pentaacetyl-4(20),12-taxadiene-2,5,7,9,10,11,13-heptol  
[247116-45-6]  $C_{30}H_{42}O_{12}$  (594.66). [Source](#): JIA NA DA HONG DOU SHAN  
*Taxus canadensis*. [Ref](#): 694.

**20749 Taxane 2**

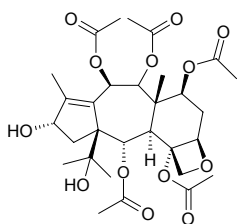
2,10,13-Triacetyl-4(20),11-taxadiene-2,5,7,9,10,13-hexol [247116-46-7]  
 $C_{26}H_{38}O_9$  (494.59). [Source](#): JIA NA DA HONG DOU SHAN *Taxus*  
*canadensis*. [Ref](#): 694.

**20750 Taxane 3**

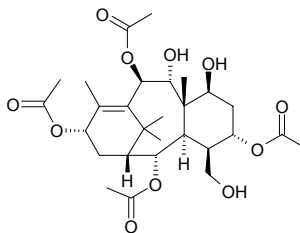
Taxuspinanane F [205436-31-3]  $C_{31}H_{40}O_{11}$  (588.66). [Source](#): JIA NA DA  
HONG DOU SHAN *Taxus canadensis*. [Ref](#): 694.

**20751 Taxane 4**

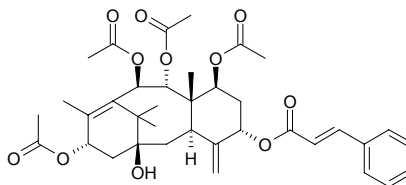
Taxayuntin H [214211-87-7]  $C_{30}H_{42}O_{13}$  (610.66). [Source](#): JIA NA DA HONG  
DOU SHAN *Taxus canadensis*. [Ref](#): 694.

**20752 Taxane 5**

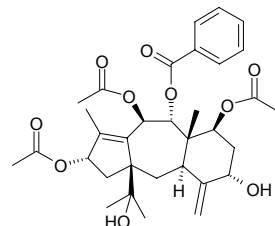
2,5,10,13-Tetraacetyl-11-taxene-2,5,7,9,10,13,20-heptol [247116-47-8]  
 $C_{28}H_{42}O_{11}$  (554.64). [Source](#): JIA NA DA HONG DOU SHAN *Taxus*  
*canadensis*. [Ref](#): 694.

**20753 Taxawallin A**

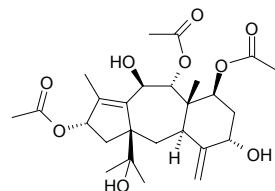
1-Hydroxy-2-deacetoxytaxinine J  $C_{37}H_{46}O_{11}$  (666.77). mp 122~124°C,  $[\alpha]_D = +64^\circ$  (CHCl<sub>3</sub>),  $[\alpha]_D = +60.45^\circ$  (CHCl<sub>3</sub>), [Source](#): XI MA LA YA HONG DOU  
SHAN *Taxus wallichiana*. [Ref](#): 662.

**20754 Taxawallin D**

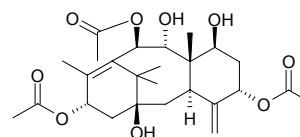
9-Benzoyl-2-deacetoxy-9-deacetyl-10-debenzoyl-10,13-diacetyltaxchinin A  
 $C_{33}H_{42}O_{10}$  (598.70). mp 122~124°C. [Source](#): XI MA LA YA HONG DOU  
SHAN *Taxus wallichiana*. [Ref](#): 662.

**20755 Taxawallin F**

13-Acetyl-2-deacetoxy-10-debenzoyltaxchinin A  $C_{26}H_{38}O_9$  (494.59). mp  
124~125°C. [Source](#): XI MA LA YA HONG DOU SHAN *Taxus wallichiana*.  
[Ref](#): 662.

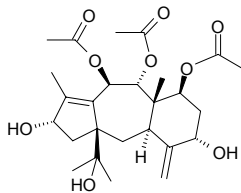
**20756 Taxawallin G**

1 $\beta$ ,7 $\beta$ ,9 $\alpha$ -Trihydroxy-5 $\alpha$ ,10 $\beta$ ,13 $\alpha$ -triacetoxytaxa-4(20),11-diene  $C_{26}H_{38}O_9$   
(494.59). mp 270°C. [Source](#): XI MA LA YA HONG DOU SHAN *Taxus*  
*wallichiana*. [Ref](#): 662.

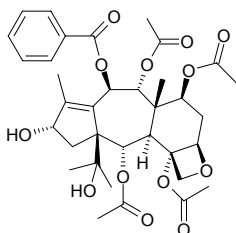


**20757 Taxawallin H**

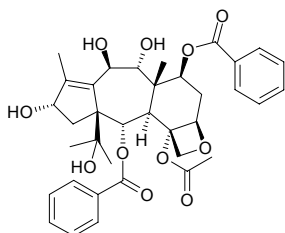
10-Acetyl-2-deacetoxy-10-debenzoyltaxchinin A  $C_{26}H_{38}O_9$  (494.59). mp 72~74°C. Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**20758 Taxayunnansin A**

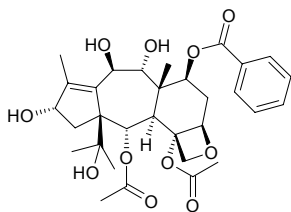
Taxayuntin  $C_{35}H_{44}O_{13}$  (672.73). Colorless massive crystals, mp 249~250°C (Me<sub>2</sub>CO),  $[\alpha]_D^{27} = -53.3^\circ$  (methanol), mp 225~226°C,  $[\alpha]_D = -38^\circ$  (MeOH). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 300, 662.

**20759 Taxayuntin A**

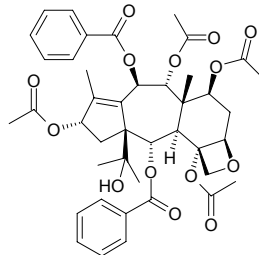
2 $\alpha$ ,7 $\beta$ ,9 $\alpha$ -Triacetyl-2 $\alpha$ ,7 $\beta$ -dibenzoyl-10 $\beta$ -debenzoyltaxayuntin  $C_{36}H_{42}O_{11}$  (650.73). White powder, mp 160~163°C,  $[\alpha]_D^{22} = \pm 0^\circ$  ( $c = 0.05$ , chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 383, 662.

**20760 Taxayuntin B**

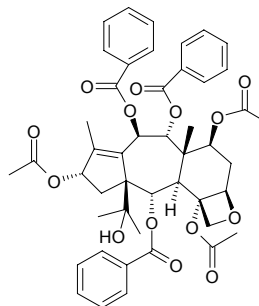
2 $\alpha$ -Debenzoyl-2 $\alpha$ -acetyl taxayuntin  $C_{31}H_{40}O_{11}$  (588.66). White acicular crystals, mp 225~228°C (methanol),  $[\alpha]_D^{12} = +25.1^\circ$  ( $c = 0.13$ , chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 383, 662.

**20761 Taxayuntin C**

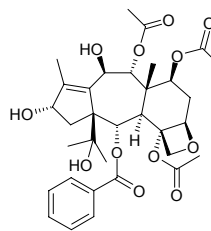
2 $\alpha$ -Deacetyl-2 $\alpha$ -benzoyl-13 $\alpha$ -acetyltaxayuntin  $C_{42}H_{48}O_{14}$  (776.84). White granular crystals, mp 226~230°C (Abs ethanol),  $[\alpha]_D^{17} = -36.2^\circ$  ( $c = 0.17$ , methanol). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*, HONG DOU SHAN *Taxus chinensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 383, 662, 2488.

**20762 Taxayuntin D**

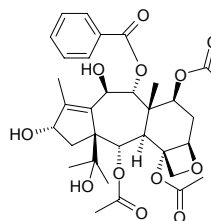
9 $\alpha$ -Deacetyl-9 $\alpha$ -debenzoyl taxayuntin; Taxchinin C [152110-14-0]  $C_{47}H_{50}O_{14}$  (838.91). White granular crystals, mp 210~214°C (methanol),  $[\alpha]_D^{17} = -40.4^\circ$  ( $c = 0.16$ , methanol);  $[\alpha]_D = -45.6^\circ$  (CH<sub>2</sub>Cl<sub>2</sub>), mp 212~214°C. Source: ZI SHAN *Taxus cuspidata*, DUAN YE HONG DOU SHAN *Taxus brevifolia*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 291, 383, 662.

**20763 Taxayuntin E**

$C_{33}H_{42}O_{12}$  (630.70). mp 185~186°C,  $[\alpha]_D = +8.7^\circ$  (MeOH). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**20764 Taxayuntin F**

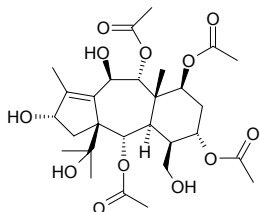
Taxchinin L  $C_{33}H_{42}O_{12}$  (630.70). mp 185~186°C,  $[\alpha]_D = -19.0^\circ$  (MeOH), mp 263~264°C,  $[\alpha]_D = -40^\circ$  (CHCl<sub>3</sub>). Source: HONG DOU SHAN *Taxus chinensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.



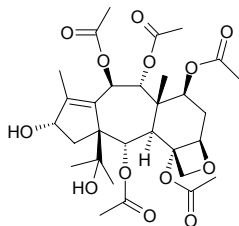
**20765 Taxayuntin G**

$C_{28}H_{42}O_{12}$  (570.64). mp 205–206°C,  $[\alpha]_D = +56^\circ$  (MeOH). **Pharm:** Cytotoxic (*in vitro*, 30 $\mu$ g/mL: A498, InRt = 21.2%; NCI-H226, InRt = 29.3%; A549, InRt = 0%; PC3, InRt = 1.4%; control Taxol, 30 $\mu$ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)<sup>[4800]</sup>.

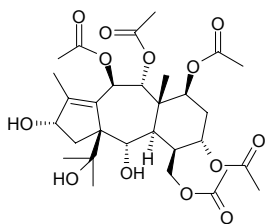
**Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)<sup>[4800]</sup>, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662, 4800.

**20766 Taxayuntin H**

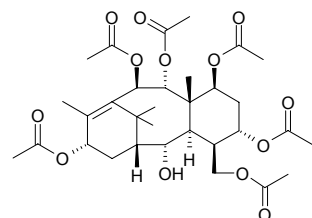
$C_{30}H_{42}O_{13}$  (610.66). mp 249–250°C,  $[\alpha]_D = -66.7^\circ$  (CHCl<sub>3</sub>). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20767 Taxayuntin J**

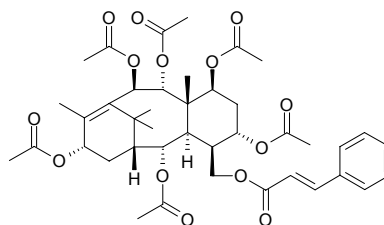
$C_{30}H_{44}O_{13}$  (612.68). mp 125–127°C,  $[\alpha]_D = -54^\circ$  (MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20768 Taxchin A**

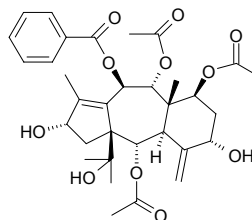
$C_{32}H_{46}O_{13}$  (638.72). mp 284–286°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20769 Taxchin B**

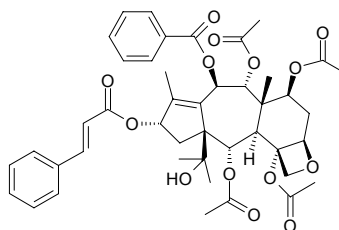
$C_{41}H_{52}O_{14}$  (768.86). mp 124–126°C,  $[\alpha]_D = +39.74^\circ$  (CHCl<sub>3</sub>). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20770 Taxchinin A**

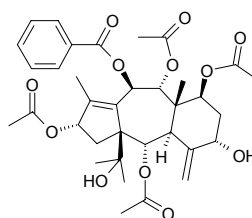
2 $\alpha$ -Acetoxybrevifoliol [158243-08-4]  $C_{33}H_{42}O_{11}$  (614.70). mp 208–210°C,  $[\alpha]_D = -34.62^\circ$  (CH<sub>2</sub>Cl<sub>2</sub>); mp 198°C,  $[\alpha]_D = -24^\circ$  (CHCl<sub>3</sub>). **Source:** HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20771 Taxchinin B**

[152110-13-9]  $C_{44}H_{50}O_{14}$  (802.88). mp 176–178°C,  $[\alpha]_D = +7.40^\circ$  (CH<sub>2</sub>Cl<sub>2</sub>). **Pharm:** Cytotoxic (L<sub>1210</sub>, IC<sub>50</sub> = 3.8 $\mu$ g/mL). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662, 1775.

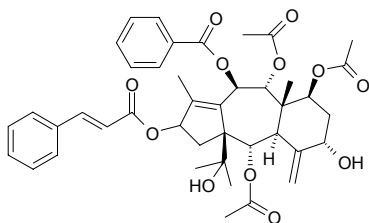
**20772 Taxchinin D**

$C_{35}H_{44}O_{12}$  (656.73). mp 138–141°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

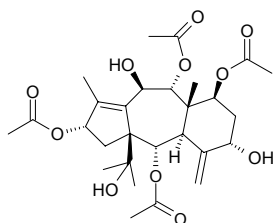


**20773 Taxchinin E**

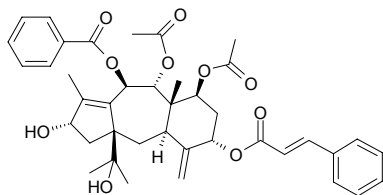
$C_{42}H_{48}O_{12}$  (744.84). mp 134~136°C,  $[\alpha]_D = -17.49^\circ$  ( $CHCl_3$ ). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20774 Taxchinin G**

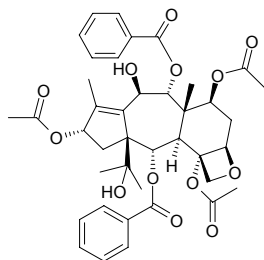
$C_{28}H_{40}O_{11}$  (552.62). mp 140~143°C. Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20775 Taxchinin H**

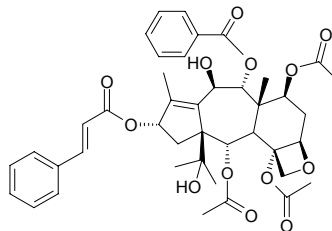
Taxawallin C  $C_{40}H_{46}O_{10}$  (686.81). mp 115~118°C,  $[\alpha]_D = -65.29^\circ$  ( $CHCl_3$ ). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20776 Taxchinin I**

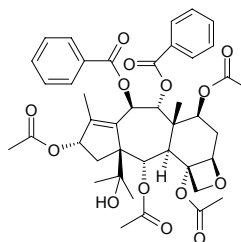
9-*O*-Benzoyl-9,10-dide-*O*-acetyl-11(15→1)-abeo-baccatin VI  $C_{40}H_{46}O_{13}$  (734.80). mp 238°C,  $[\alpha]_D = -30.5^\circ$  ( $CHCl_3$ ), mp 235~237°C,  $[\alpha]_D = -6.08^\circ$  ( $CHCl_3$ ). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20777 Taxchinin J**

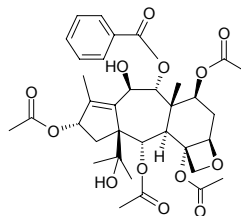
$C_{42}H_{48}O_{13}$  (760.84). mp 238~240°C,  $[\alpha]_D = +23.36^\circ$  ( $CHCl_3$ ). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20778 Taxchinin K**

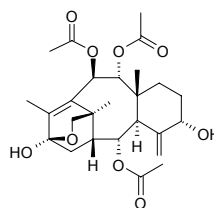
$C_{42}H_{48}O_{14}$  (776.84). mp 217~219°C,  $[\alpha]_D = -30.0^\circ$  ( $CHCl_3$ ). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20779 Taxchinin M**

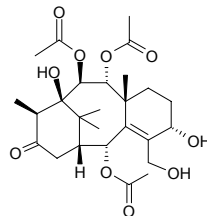
$C_{35}H_{44}O_{13}$  (672.73). mp 239~242°C,  $[\alpha]_D = -19.6^\circ$  ( $CHCl_3$ ). Source: HONG DOU SHAN *Taxus chinensis*, DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**20780 Taxezopidine A**

$C_{26}H_{36}O_9$  (492.57).  $[\alpha]_D = +5^\circ$  ( $CHCl_3$ ). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

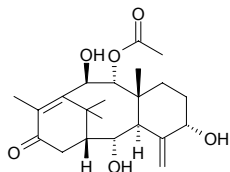
**20781 Taxezopidine B**

$C_{26}H_{38}O_{10}$  (510.59).  $[\alpha]_D = +10.4^\circ$  ( $CHCl_3$ ). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

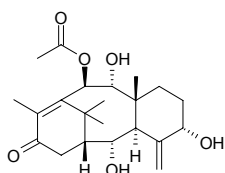


**20782 Taxezopidine C**

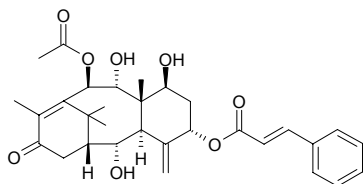
$C_{22}H_{32}O_6$  (392.50).  $[\alpha]_D = +17.3^\circ$  ( $CHCl_3$ ). Source: ZI SHAN *Taxus cuspidata*.  
Ref: 662.

**20783 Taxezopidine D**

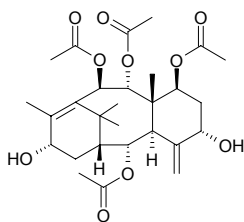
$C_{22}H_{32}O_6$  (392.50).  $[\alpha]_D = +8.4^\circ$  ( $CHCl_3$ ). Source: ZI SHAN *Taxus cuspidata*.  
Ref: 662.

**20784 Taxezopidine E**

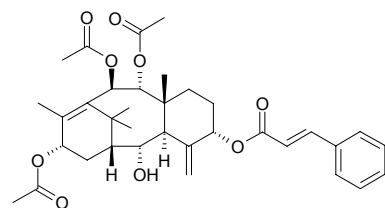
$C_{31}H_{38}O_8$  (538.64).  $[\alpha]_D = +24^\circ$  ( $CHCl_3$ ). Source: ZI SHAN *Taxus cuspidata*.  
Ref: 662.

**20785 Taxezopidine F**

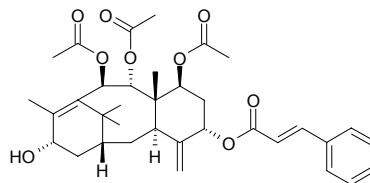
$C_{28}H_{40}O_{10}$  (536.63).  $[\alpha]_D = -13.4^\circ$  ( $CHCl_3$ ). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20786 Taxezopidine G**

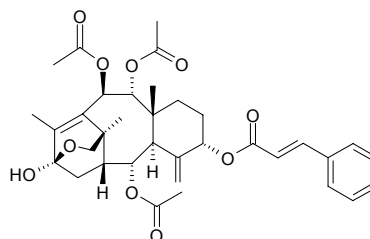
$C_{35}H_{44}O_9$  (608.74).  $[\alpha]_D = +25.2^\circ$  ( $CHCl_3$ ). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts), ZI SHAN *Taxus cuspidata*. Ref: 662, 4611.

**20787 Taxezopidine H**

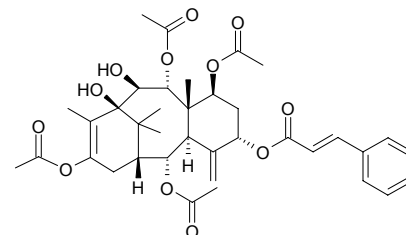
$C_{35}H_{44}O_9$  (608.74).  $[\alpha]_D = +5.6^\circ$  ( $CHCl_3$ ). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts), ZI SHAN *Taxus cuspidata*. Ref: 662, 4611.

**20788 Taxezopidine J**

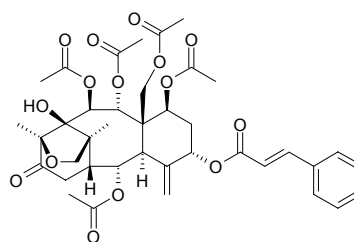
$C_{35}H_{42}O_{10}$  (622.72).  $[\alpha]_D = +48^\circ$  ( $CHCl_3$ ). Source: ZI SHAN *Taxus cuspidata*.  
Ref: 662.

**20789 Taxezopidine K**

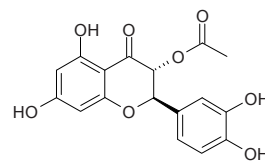
$C_{37}H_{46}O_{12}$  (682.77).  $[\alpha]_D = +53^\circ$  ( $CHCl_3$ ). Source: ZI SHAN *Taxus cuspidata*.  
Ref: 662.

**20790 Taxezopidine L**

19-Acetoxytaxagifine  $C_{39}H_{46}O_{15}$  (754.79). mp 106~108°C,  $[\alpha]_D = +94^\circ$  ( $CHCl_3$ ),  $[\alpha]_D = -2.4^\circ$  (MeOH). Source: HONG DOU SHAN *Taxus chinensis*, ZI SHAN *Taxus cuspidata*. Ref: 662.

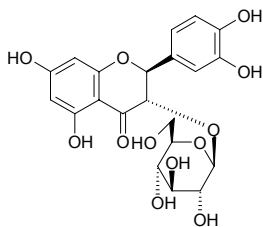
**20791 Taxifolin 3-O-acetate**

$C_{17}H_{14}O_8$  (346.30). Pharm: Sweetener. Source: NIAN XING TU MU XIANG *Inula viscosa*. Ref: 658.

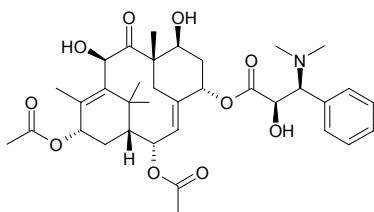


**20792 (2S,3S)-(-)-Taxifolin-3-O-β-D-glucopyranoside**

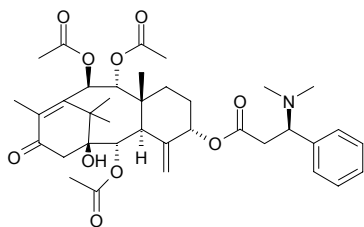
$C_{21}H_{22}O_{12}$  (466.40). White acicular crystals, mp 166~168°C,  $[\alpha]_D^{14} = -119.4^\circ$  ( $c = 0.5$ , methanol). Source: XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 152.

**20793 Taxine A**

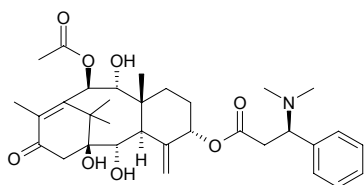
[1361-49-5]  $C_{35}H_{47}NO_{10}$  (641.77).  $[\alpha]_D = -140^\circ$  ( $CHCl_3$ ), mp 204~206°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**20794 Taxine A'**

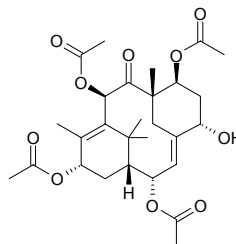
Diacetyltaxine B  $C_{37}H_{49}NO_{10}$  (667.80). mp 121~124°C. Source: ZI SHAN *Taxus cuspidata*. Ref: 6.

**20795 Taxine B**

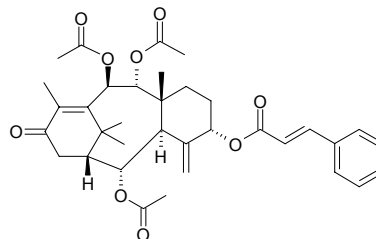
Taxine I  $C_{33}H_{45}NO_8$  (583.73). mp 115°C, mp 113°C,  $[\alpha]_D = +119^\circ$  ( $CHCl_3$ ),  $[\alpha]_D = +116^\circ$  (MeOH). Source: JIANG GUO ZI SHAN *Taxus baccata*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20796 Taxine B'**

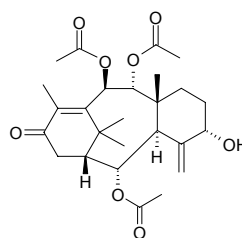
$C_{28}H_{38}O_{10}$  (534.61). mp 166~167°C,  $[\alpha]_D = -239.5^\circ$  ( $CHCl_3$ ). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig: yield = 0.00005%dw)<sup>[4666]</sup>, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662, 4666.

**20797 Taxinine**

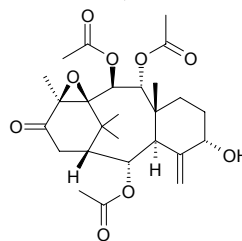
O-Cinnamoyltaxicin II triacetate [3835-52-7]  $C_{35}H_{42}O_9$  (606.72). mp 265~267°C, mp 266~267°C, mp 264~265°C, mp 237~239°C,  $[\alpha]_D = +137^\circ$  ( $CHCl_3$ ),  $[\alpha]_D = +128^\circ$  ( $CHCl_3$ ). Pharm: Cytotoxic (mus,  $L_{1210}$ , 10μg/mL InRt = 10.5%; hmn, KB, 10μg/mL InRt = 4.8%). Source: HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)<sup>[4611]</sup>, ZI SHAN *Taxus cuspidata*. Ref: 6, 291, 662, 1776, 4611.

**20798 Taxinine A**

[18530-09-1]  $C_{26}H_{36}O_8$  (476.57). mp 254~255°C,  $[\alpha]_D = +106^\circ$  ( $CHCl_3$ ). Pharm: Cytotoxic (mus  $L_{1210}$ ,  $IC_{50} = 8.9\mu g/mL$ , hmn KB, 10μg/mL InRt = 30.7%). Source: ZI SHAN *Taxus cuspidata*, HONG DOU SHAN *Taxus chinensis*. Ref: 6, 662, 1776.

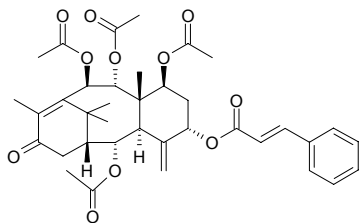
**20799 Taxinine A 11,12-epoxide**

5α-Hydroxy-2α,9α,10β-triacetoxy-11,12-epoxy-taxa-4(20)-en-13-one  $C_{26}H_{36}O_9$  (492.57). White amorphous solid, mp 162~163°C,  $[\alpha]_D^{17} = +7.5^\circ$  ( $c = 0.06$ , MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 2415.

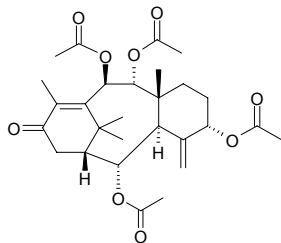


**20800 Taxinine B**

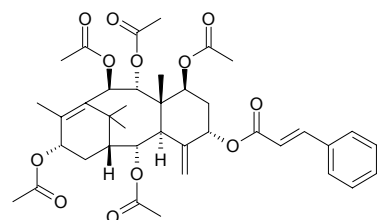
7 $\beta$ -Acetate-*O*-taxinine A [18457-44-8] C<sub>37</sub>H<sub>44</sub>O<sub>11</sub> (664.76). mp 261~262°C, mp 265~266°C, [ $\alpha$ ]<sub>D</sub> = +84.4° (CHCl<sub>3</sub>), [ $\alpha$ ]<sub>D</sub> = +93.8° (CHCl<sub>3</sub>). **Pharm:** Cytotoxic (mus, L<sub>1210</sub>, 10 $\mu$ g/mL InRt = 45.9%; hmn, KB, 10 $\mu$ g/mL InRt = 28.8%; inhibits Ca<sup>2+</sup>-induced depolymerization of tubulin to overcome resistance of cancer cells). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00001%dw)<sup>[4666]</sup>, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)<sup>[3079,4611]</sup>, ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1776, 3079, 4611, 4666.

**20801 Taxinine H**

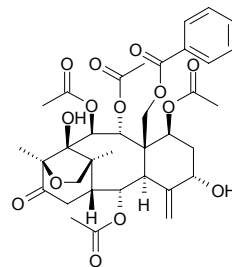
C<sub>28</sub>H<sub>38</sub>O<sub>9</sub> (518.61). mp 166~167°C, [ $\alpha$ ]<sub>D</sub> = +96° (CHCl<sub>3</sub>). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 6, 662.

**20802 Taxinine J**

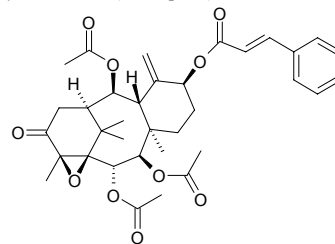
[18457-46-0] C<sub>39</sub>H<sub>48</sub>O<sub>12</sub> (708.81). Colorless crystals (acetone), mp 260~262°C, [ $\alpha$ ]<sub>D</sub><sup>14</sup> = -37.7° (*c* = 0.09, chloroform); [ $\alpha$ ]<sub>D</sub><sup>28</sup> = +36.0° (*c* = 1.1, chloroform). **Pharm:** Antineoplastic (hepatocarcinoma). **Source:** HONG DOU SHAN *Taxus chinensis*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*<sup>[4611]</sup>, ZI SHAN *Taxus cuspidata*. **Ref:** 662, 900, 4611.

**20803 Taxinine M**

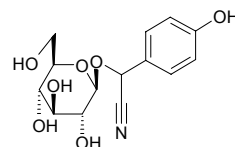
[135730-55-1] C<sub>35</sub>H<sub>42</sub>O<sub>14</sub> (686.72). [ $\alpha$ ]<sub>D</sub> = -24° (MeOH). **Pharm:** Cytotoxic (BST, LC<sub>50</sub> = 620 $\mu$ g/mL; KB, IC<sub>50</sub> = 9.4 $\mu$ g/mL); cytotoxic (*in vitro*, 30 $\mu$ g/mL: A498, InRt = 24.3%; NCI-H226, InRt = 11.1%; A549, InRt = 14.6%; PC3, InRt = 0%; control Taxol, 30 $\mu$ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)<sup>[4800]</sup>. **Source:** DUAN YE HONG DOU SHAN *Taxus brevifolia*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf<sup>[4800]</sup>: yield = 0.0021%dw<sup>[4666]</sup>). **Ref:** 662, 1775, 4666, 4800.

**20804 Taxinine N,N-4**

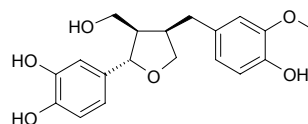
C<sub>35</sub>H<sub>42</sub>O<sub>10</sub> (622.72). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 3079.

**20805 Taxiphyllin**

Phyllanthin; Phyllanthoside C<sub>14</sub>H<sub>17</sub>NO<sub>7</sub> (311.29). **Source:** HAI JIU CAI *Triglochin maritimum*, LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], *Taxus* spp. **Ref:** 660.

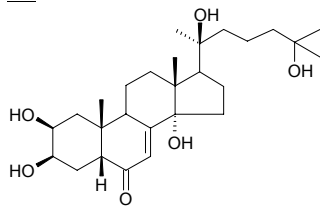
**20806 Taxiresinol**

[40951-69-7] C<sub>19</sub>H<sub>22</sub>O<sub>6</sub> (346.38). **Pharm:** Hepatoprotective (mouse, 50mg/kg, TNF- $\alpha$  level = (264.1 $\pm$ 103.4)pg/mL, 10mg/kg, TNF- $\alpha$  level = (350.0 $\pm$ 194.2)pg/mL)<sup>[4917]</sup>; antioxidant (DPPH free radical scavenger, IC<sub>50</sub> = 18.4 $\mu$ mol/L, control Caffeic acid, IC<sub>50</sub> = 25.5 $\mu$ mol/L)<sup>[5407]</sup>; NO production inhibitor (IC<sub>50</sub> = 163 $\mu$ mol/L, control *L*-NMMA, IC<sub>50</sub> = 28.5 $\mu$ mol/L)<sup>[5407]</sup>. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.10%dw). **Ref:** 1521, 4661, 4917, 5407.

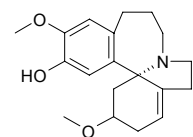


**20807 Taxisterone**

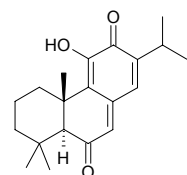
22-Deoxyecdysterone C<sub>27</sub>H<sub>44</sub>O<sub>6</sub> (464.65). Source: ZI SHAN *Taxus cuspidata*. Ref: 660.

**20808 Taxodine**

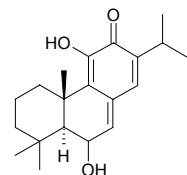
C<sub>19</sub>H<sub>25</sub>NO<sub>3</sub> (315.42). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2.

**20809 Taxodione**

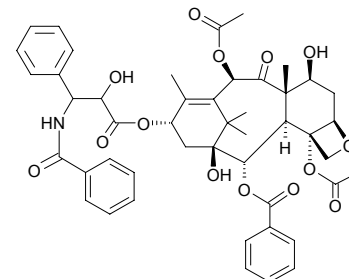
[19026-31-4] C<sub>20</sub>H<sub>26</sub>O<sub>3</sub> (314.43). mp 115~116°C, [α]<sub>D</sub><sup>25</sup> = +525° (c = 1.0, CHCl<sub>3</sub>). Pharm: Antineoplastic (rat W<sub>256</sub>, 50mg/kg, InRt = 93%); cytotoxic (KB, ED<sub>50</sub> = 3μg/mL); cytotoxic (Col2, IC<sub>50</sub> = 0.7μg/mL, control Ellipticine, IC<sub>50</sub> = 0.3μg/mL; LNCaP, IC<sub>50</sub> = 0.7μg/mL, Ellipticine, IC<sub>50</sub> = 0.8μg/mL; P<sub>388</sub>, IC<sub>50</sub> = 0.3μg/mL, Ellipticine, IC<sub>50</sub> = 0.1μg/mL; A2780, IC<sub>50</sub> = 9.0μg/mL, control Actinomycin D, IC<sub>50</sub> = 0.001μg/mL; KB-VI, IC<sub>50</sub> = 4.1μg/mL, Ellipticine, IC<sub>50</sub> = 0.3μg/mL; KB, IC<sub>50</sub> = 3.4μg/mL, Ellipticine, IC<sub>50</sub> = 0.04μg/mL; Lu1, IC<sub>50</sub> = 5.1μg/mL, Ellipticine, IC<sub>50</sub> = 0.02μg/mL; BC1, IC<sub>50</sub> = 1.2μg/mL, Ellipticine, IC<sub>50</sub> = 0.2μg/mL)<sup>[5400]</sup>. Source: LUO YU SHAN *Taxodium distichum*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*. Ref: 5, 658, 5400.

**20810 Taxodone**

[19039-02-2] C<sub>20</sub>H<sub>28</sub>O<sub>3</sub> (316.44). mp 164~166°C. Pharm: Antineoplastic (rat W<sub>256</sub>, 25mg/kg, InRt = 91%); cytotoxic (KB, ED<sub>50</sub> = 1.8μg/mL or 0.6μg/mL). Source: LUO YU SHAN *Taxodium distichum*. Ref: 5, 658.

**20811 Taxol**

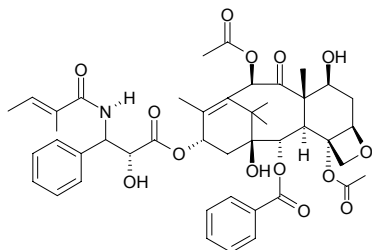
Paclitaxel [33069-62-4] C<sub>47</sub>H<sub>51</sub>NO<sub>14</sub> (853.93). [α]<sub>D</sub> = -49° (MeOH), mp 213~216°C, [α]<sub>D</sub> = -54° (MeOH), mp 194~197°C, [α]<sub>D</sub> = -42° (MeOH), mp 198~203°C, [α]<sub>D</sub> = -54° (MeOH), mp 205~208°C, [α]<sub>D</sub> = -21° (pyridine). Pharm: Cytotoxic (MCF7, GI<sub>50</sub> = (0.102±0.009)μg/mL; MDA-MB-231, GI<sub>50</sub> = (0.099±0.001)μg/mL; OVCAR-3, GI<sub>50</sub> = (0.028±0.006)μg/mL; A549, GI<sub>50</sub> = (0.030±0.001)μg/mL; HT29, GI<sub>50</sub> = (0.032±0.003)μg/mL; ACHN, GI<sub>50</sub> = (0.088±0.004)μg/mL); cytotoxic (*in vitro*, PC3, IC<sub>50</sub> = 0.016μmol/L; Hep3B, IC<sub>50</sub> = 0.031μmol/L)<sup>[3010]</sup>; cytotoxic (hmn PC3 tumor cells, IC<sub>50</sub> = 0.16μmol/L)<sup>[4258]</sup>; cytotoxic (*in vitro*, KB, IC<sub>50</sub> = 0.001μg/mL; Hepa59T/VGH, IC<sub>50</sub> = 0.001μg/mL)<sup>[4666]</sup>; antiproliferative and cytotoxic (*in vitro*, L-929, GI<sub>50</sub> = 0.1μg/mL; K562, GI<sub>50</sub> = 0.01μg/mL; HeLa, CC<sub>50</sub> = 0.01μg/mL)<sup>[4770]</sup>; cytotoxic (*in vitro*, 30μg/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)<sup>[4800]</sup>; cytotoxic (Lu1, ED<sub>50</sub> = 0.002μg/mL, Col2, ED<sub>50</sub> = 0.003μg/mL, KB, ED<sub>50</sub> = 0.0005μg/mL, LNCaP, ED<sub>50</sub> = 0.001μg/mL, hTERT-RPE1, ED<sub>50</sub> = 0.004μg/mL, HUVEC, ED<sub>50</sub> = 0.008μg/mL)<sup>[4991]</sup>; cytotoxic (HL-60, IC<sub>50</sub> = (4.1±1.1)×10<sup>-4</sup>μmol/L; MCF7, IC<sub>50</sub> = (15.3±2.6)μmol/L; Bel7402, IC<sub>50</sub> = (0.3±0.1)μmol/L; HeLa, IC<sub>50</sub> = (33.0±6.1)μmol/L; KB, IC<sub>50</sub> > 100μmol/L)<sup>[5015]</sup>; apoptosis inducer (HL-60 cells, 15μmol/L, control sub-G1 population = (5.4±3.2)%, sub-G1 population = (40.5±0.2)%)<sup>[5015]</sup>; cytotoxic (Bel7402 cancer cell, IC<sub>50</sub> = (0.3±0.1)μmol/L; HeLa, IC<sub>50</sub> = (33.0±6.1)μmol/L; HL-60, IC<sub>50</sub> = (4.1±1.1)×10<sup>-4</sup>μmol/L; MCF7, IC<sub>50</sub> = (15.3±2.6)μmol/L)<sup>[5410]</sup>; cytotoxic (K562, GI<sub>50</sub> > 100ng/mL; HL-60, GI<sub>50</sub> = 77ng/mL; DU145, GI<sub>50</sub> = 40ng/mL; PC3, GI<sub>50</sub> = 44ng/mL; A549, GI<sub>50</sub> = 30ng/mL; NCI-H460, GI<sub>50</sub> = 20ng/mL; MCF7, GI<sub>50</sub> = 80ng/mL; MDA-MB-231, GI<sub>50</sub> = 40ng/mL; ACHN, GI<sub>50</sub> > 100ng/mL; UO-31, GI<sub>50</sub> > 100ng/mL; HT29, GI<sub>50</sub> = 40ng/mL; Colon205, GI<sub>50</sub> = 40ng/mL)<sup>[5450]</sup>; cytotoxic (Bel7402 cell lines, IC<sub>50</sub> = 0.52μmol/L; BGC<sub>823</sub>, IC<sub>50</sub> > 500μmol/L; HeLa, IC<sub>50</sub> = 34.25μmol/L; HL-60, IC<sub>50</sub> = 3.5×10<sup>-4</sup>μmol/L; MCF7, IC<sub>50</sub> = 12.64μmol/L)<sup>[5454]</sup>; antineoplastic (used in treatment of ovarian cancer, breast cancer, lung cancer, and nasopharyngeal carcinoma). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia* (bark: content = 0.0630%, needle leaf: content = 0.0110%)<sup>[5508]</sup>, HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus mannii*], HONG DOU SHAN *Taxus chinensis* (branch-leaf: content = 0.0025%)<sup>[5508]</sup>, JIANG GUO ZI SHAN *Taxus baccata* (branch-leaf: content = 0.0043%)<sup>[5508]</sup>, JIE ZHI HONG DOU SHAN *Taxus media* (bark: content = 0.0350%, needle leaf: content = 0.0130%)<sup>[5508]</sup>, MEI LI HONG DOU SHAN *Taxus mairei* (branch-leaf: content = 0.0030%)<sup>[5508]</sup>, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00009%dw)<sup>[4666]</sup>, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (branch-leaf: content = 0.0100%)<sup>[5508]</sup>, ZI SHAN *Taxus cuspidata* (branch-leaf: content = 0.0038%)<sup>[5508]</sup>. Ref: 5, 6, 202, 662, 3010, 4258, 4666, 4770, 4800, 4991, 4992, 5015, 5410, 5450, 5454, 5508.



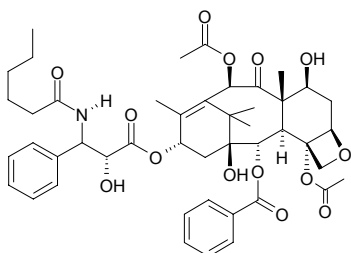


**20812 Taxol B**

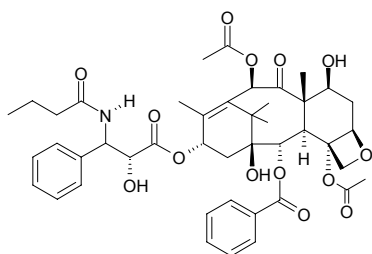
Cephalomannine [71610-00-9]  $C_{45}H_{53}NO_{14}$  (831.92).  $[\alpha]_D = -41^\circ$  (MeOH), mp 181~184°C,  $[\alpha]_D = -41^\circ$  (MeOH), mp 184~186°C, mp 180~183°C. Source: JIANG GUO ZI SHAN *Taxus baccata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 563, 662.

**20813 Taxol C**

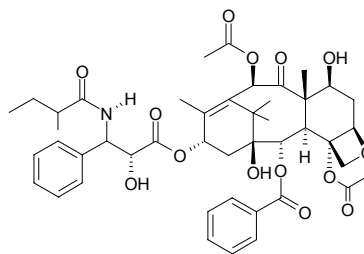
Taxuyunnanine A; *N*-Debenzoyl-*N*-hexanoyltaxol [153415-45-3]  $C_{46}H_{57}NO_{14}$  (847.97). Yellow amorphous solid, mp 150°C (methanol),  $[\alpha]_D^{14} = -107^\circ$  ( $c = 0.054$ , methanol), mp 204~205°C,  $[\alpha]_D^{20} = -64.7^\circ$  ( $c = 1.2$ ,  $CHCl_3$ ). Pharm: Cytotoxic (in NCI hm clonal selection, showing strongly selective cytotoxic, especially against parvicellular and non-parvicellular lung cancer;  $L_{1210}$ ,  $IC_{50} = 0.21 \mu\text{g/mL}$ ; KB,  $IC_{50} = 0.0066 \mu\text{g/mL}$ ). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*, ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*, ZI SHAN *Taxus cuspidata*. Ref: 662, 900.

**20814 Taxol D**

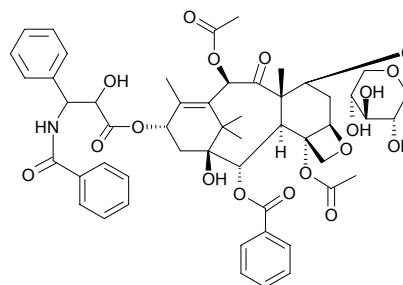
Taxcultine; *N*-Debenzoyl-*N*-butanoyltaxol [153415-46-4]  $C_{44}H_{53}NO_{14}$  (819.91).  $[\alpha]_D = -7.54^\circ$  (MeOH), mp 155°C,  $[\alpha]_D = -16^\circ$  ( $CHCl_3$ ), mp 206~208°C. Pharm: Cytotoxic ( $L_{1210}$ ,  $IC_{50} = 0.21 \mu\text{g/mL}$ ; KB,  $IC_{50} = 0.0016 \mu\text{g/mL}$ ); antineoplastic (ox brain, tubulin assay,  $ED_{50} = 2.35 \mu\text{g/mL}$ ). Source: JIANG GUO ZI SHAN *Taxus baccata*, ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662, 1649, 1775.

**20815 Taxoline**

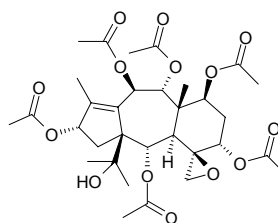
[213539-42-5]  $C_{45}H_{55}NO_{14}$  (833.94). White powdery crystals, mp 184~186°C. Pharm: Antineoplastic ( $P_{388}$ , inhibits DNA synthesize,  $ID_{50} = 1.12 \mu\text{g/mL}$ ). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 813.

**20816 Taxol C-7-xylose**

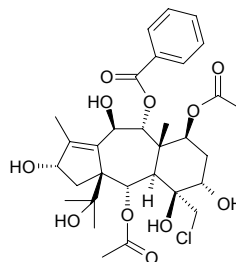
$C_{52}H_{59}NO_{18}$  (986.05). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 563.

**20817 Taxuchin A**

$C_{32}H_{44}O_{14}$  (652.70). mp 248~250°C,  $[\alpha]_D = -64.8^\circ$  ( $CHCl_3$ ). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

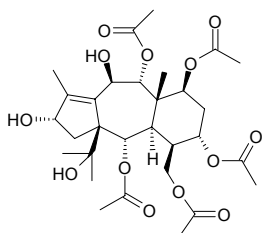
**20818 Taxuchin B**

$C_{31}H_{41}ClO_{11}$  (625.12). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

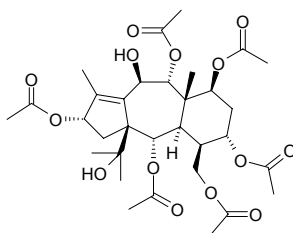


**20819 Taxumain A**

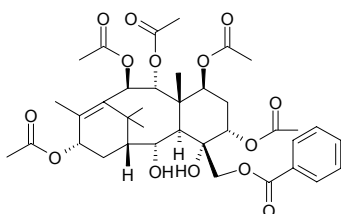
$C_{30}H_{44}O_{13}$  (612.68). mp 284–286°C,  $[\alpha]_D = -11.1^\circ$  ( $CHCl_3$ ). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20820 Taxumain B**

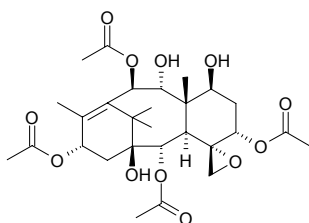
$C_{32}H_{46}O_{14}$  (654.72).  $[\alpha]_D = -15.2^\circ$  ( $CHCl_3$ ). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20821 Taxumairol A**

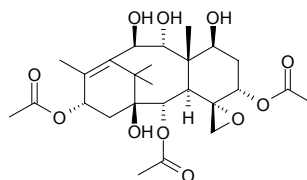
5 $\alpha$ ,7 $\beta$ ,9 $\alpha$ ,10 $\beta$ ,13 $\alpha$ -Pentaacetoxy-20(benzoyloxy)-2 $\alpha$ ,4 $\alpha$ -dihydroxytax-11-ene  $C_{37}H_{48}O_{14}$  (716.79).  $[\alpha]_D = +46^\circ$  (MeOH). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20822 Taxumairol B**

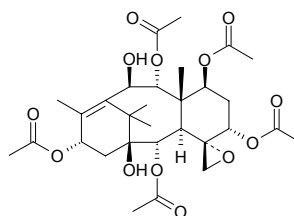
$C_{28}H_{40}O_{12}$  (568.62).  $[\alpha]_D = +65.84^\circ$  ( $CHCl_3$ ),  $[\alpha]_D = +15^\circ$  (MeOH). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis*, MEI LI HONG DOU SHAN *Taxus mairei*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00060%dw)<sup>[4666]</sup>. Ref: 662, 4666.

**20823 Taxumairol C**

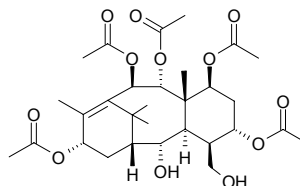
7 $\beta$ ,9 $\alpha$ ,10 $\beta$ -Triacetetyl-1 $\beta$ -hydroxybaccatin I  $C_{28}H_{38}O_{11}$  (526.59).  $[\alpha]_D = +78^\circ$  ( $CHCl_3$ ). Source: MEI LI HONG DOU SHAN *Taxus mairei*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00016%dw)<sup>[4666]</sup>. Ref: 662, 4666.

**20824 Taxumairol D**

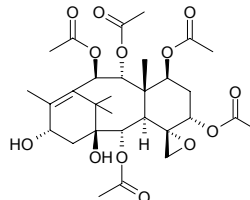
1 $\beta$ -Hydroxy-10-deacetylbaaccatin I  $C_{30}H_{42}O_{13}$  (610.66).  $[\alpha]_D = +75^\circ$  ( $CHCl_3$ ). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*, MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20825 Taxumairol E**

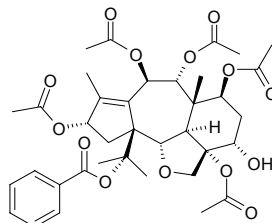
5 $\alpha$ ,7 $\beta$ ,9 $\alpha$ ,10 $\beta$ ,13 $\alpha$ -Pentaacetoxy-2 $\alpha$ ,20-dihydroxytax-11-ene  $C_{30}H_{44}O_{12}$  (596.68).  $[\alpha]_D = +54.9^\circ$  ( $CHCl_3$ ). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20826 Taxumairol F**

$C_{30}H_{42}O_{13}$  (610.66).  $[\alpha]_D = +13^\circ$  ( $CHCl_3$ ). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20827 Taxumairol G**

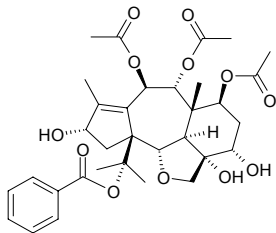
$C_{37}H_{46}O_{14}$  (714.77). Amorphous solid,  $[\alpha]_D^{25} = +5.5^\circ$  ( $c = 0.2$ ,  $CH_2Cl_2$ ). Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.



**20828 Taxumairol H**

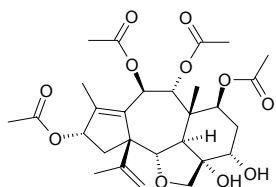
$C_{33}H_{42}O_{12}$  (630.70). Amorphous solid,  $[\alpha]_D^{25} = +2.6^\circ$  ( $c = 0.2$ ,  $CH_2Cl_2$ ).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

**20829 Taxumairol I**

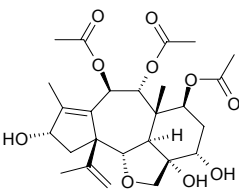
$C_{28}H_{38}O_{11}$  (550.61). Amorphous solid,  $[\alpha]_D^{25} = +73.5^\circ$  ( $c = 0.2$ ,  $CH_2Cl_2$ ).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

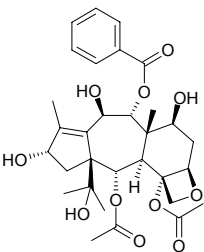
**20830 Taxumairol J**

$C_{26}H_{36}O_{10}$  (508.57). Amorphous solid,  $[\alpha]_D^{25} = +9.8^\circ$  ( $c = 0.2$ ,  $CH_2Cl_2$ ).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

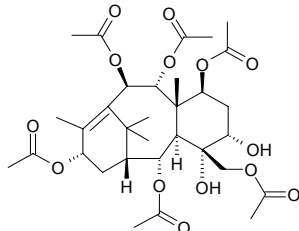
**20831 Taxumairol K**

9 $\alpha$ -(Benzyloxy)-2 $\alpha$ ,4 $\alpha$ -diacetoxy-5 $\beta$ ,20-epoxy-1 $\beta$ ,7 $\beta$ ,10 $\beta$ ,13 $\alpha$ -tetrahydroxy-11(15 $\rightarrow$ 1)-abeo-taxene  $C_{31}H_{40}O_{11}$  (588.66).  $[\alpha]_D = -8.5^\circ$  (MeOH). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

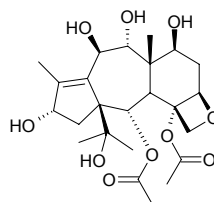
**20832 Taxumairol L**

$C_{32}H_{46}O_{14}$  (654.72). Amorphous solid,  $[\alpha]_D^{25} = +12.8^\circ$  ( $c = 0.2$ , MeOH).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

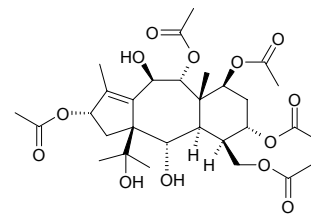
**20833 Taxumairol Q**

$C_{24}H_{36}O_{10}$  (484.55). White amorphous solid. Pharm: Cytotoxic (*in vitro*, KB,  $IC_{50} = 16.25\mu g/mL$ ; Hepa59T/VGH,  $IC_{50} = 14.52\mu g/mL$ ; control Paclitaxel, KB,  $IC_{50} = 0.001\mu g/mL$ ; Hepa59T/VGH,  $IC_{50} = 0.001\mu g/mL$ ). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig: yield = 0.000076%dw). Ref: 4666.

**20834 Taxumairol U**

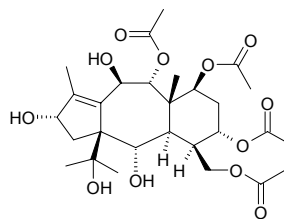
5 $\alpha$ ,7 $\beta$ ,9 $\alpha$ ,13 $\alpha$ ,20-Pentaacetoxy-2 $\alpha$ ,10 $\beta$ ,15-trihydroxy-11(15 $\rightarrow$ 1)-abeo-taxene  $C_{30}H_{44}O_{13}$  (612.68). Amorphous solid,  $[\alpha]_D^{25} = -18^\circ$  ( $c = 0.05$ ,  $CH_2Cl_2$ ).

Pharm: Cytotoxic (*in vitro*, KB,  $IC_{50} = 10.3\mu g/mL$ ; Hepa,  $IC_{50} = 0.3\mu g/mL$ )<sup>[3070]</sup>. Source: MEI LI HONG DOU SHAN *Taxus mairei* (stem cortex), SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00022%dw)<sup>[4666]</sup>. Ref: 3070, 4666.

**20835 Taxumairol V**

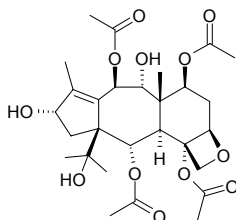
5 $\alpha$ ,7 $\beta$ ,9 $\alpha$ ,20-Tetraacetoxy-2 $\alpha$ ,10 $\beta$ ,13 $\alpha$ ,15-tetrahydroxy-11-(15 $\rightarrow$ 1)-abeo-taxene  $C_{28}H_{42}O_{12}$  (570.64). Amorphous powder,  $[\alpha]_D^{25} = -13^\circ$  ( $c = 0.05$ ,  $CH_2Cl_2$ ).

Pharm: Cytotoxic (*in vitro*, KB,  $IC_{50} = 3.9\mu g/mL$ ; Hepa,  $IC_{50} = 1.6\mu g/mL$ )<sup>[3070]</sup>. Source: MEI LI HONG DOU SHAN *Taxus mairei* (stem cortex), SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00006%dw)<sup>[4666]</sup>. Ref: 3070, 4666.

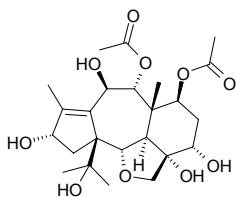


**20836 Taxumairol W**

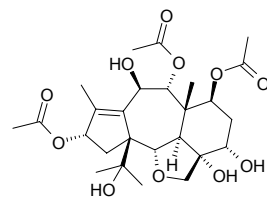
2 $\alpha$ ,4 $\alpha$ ,7 $\beta$ ,10 $\beta$ -Tetraacetoxy-5 $\beta$ ,20-epoxy-9 $\alpha$ ,13 $\alpha$ ,15-trihydroxy-11(15 $\rightarrow$ 1)-abeo-taxene C<sub>28</sub>H<sub>40</sub>O<sub>12</sub> (568.62). Amorphous solid,  $[\alpha]_D^{25} = -54^\circ$  ( $c = 0.05$ , CH<sub>2</sub>Cl<sub>2</sub>). **Pharm:** Cytotoxic (*in vitro*, KB, IC<sub>50</sub> > 20 $\mu$ g/mL; Hepa, IC<sub>50</sub> = 7 $\mu$ g/mL)<sup>[3070]</sup>. **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (stem cortex), SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00004%dw)<sup>[4666]</sup>. **Ref:** 3070, 4359, 4666.

**20837 Taxumairol X**

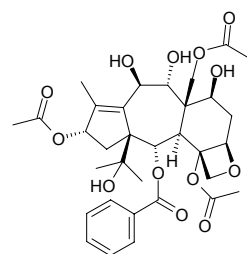
C<sub>24</sub>H<sub>36</sub>O<sub>10</sub> (484.55). Amorphous powder,  $[\alpha]_D^{25} = +14.6^\circ$  ( $c = 0.2$ , CH<sub>2</sub>Cl<sub>2</sub>). **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (root). **Ref:** 4250.

**20838 Taxumairol Y**

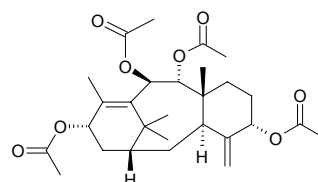
C<sub>26</sub>H<sub>38</sub>O<sub>11</sub> (526.59). Amorphous powder,  $[\alpha]_D^{25} = +72.6^\circ$  ( $c = 0.2$ , CH<sub>2</sub>Cl<sub>2</sub>). **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (root). **Ref:** 4250.

**20839 Taxumairol Z**

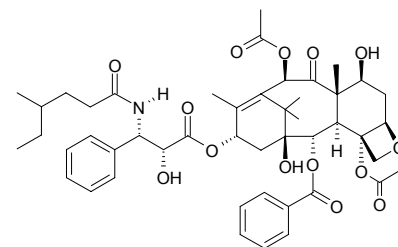
C<sub>33</sub>H<sub>42</sub>O<sub>13</sub> (646.69). Amorphous powder,  $[\alpha]_D^{25} = -25^\circ$  ( $c = 0.2$ , CH<sub>2</sub>Cl<sub>2</sub>). **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (root). **Ref:** 4250.

**20840 Taxusin**

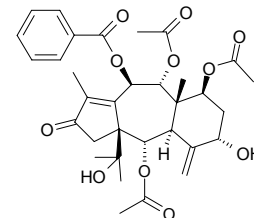
5 $\alpha$ ,9 $\alpha$ ,10 $\beta$ ,13 $\alpha$ -Tetraacetoxytaxa-4(20),11-diene C<sub>28</sub>H<sub>40</sub>O<sub>8</sub> (504.63). mp 126°C, mp 129~131°C, mp 124~126°C, mp 124~126°C, mp 131~132°C,  $[\alpha]_D = +110^\circ$ ,  $[\alpha]_D = +120^\circ$  (CHCl<sub>3</sub>),  $[\alpha]_D = +95^\circ$  (MeOH),  $[\alpha]_D = +168^\circ$  (CHCl<sub>3</sub>). **Pharm:** Cytotoxic (*in vitro*, Colon26-L5, EC<sub>50</sub> = 61.4 $\mu$ g/mL; HT1080, EC<sub>50</sub> = 51.7 $\mu$ g/mL; control 5-Fluorouracil, Colon26-L5, EC<sub>50</sub> = 0.29 $\mu$ g/mL; HT1080, EC<sub>50</sub> = 0.07 $\mu$ g/mL)<sup>[4661]</sup>; antioxidant (DPPH scavenger, IC<sub>50</sub> > 200 $\mu$ mol/L, control Caffeic acid, IC<sub>50</sub> = 25.5 $\mu$ mol/L); NO production inhibitor (IC<sub>50</sub> = 22.1 $\mu$ mol/L, control L-NMMA, IC<sub>50</sub> = 28.5 $\mu$ mol/L)<sup>[5407]</sup>. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.011%dw)<sup>[4661]</sup>, ZI SHAN *Taxus cuspidata*. **Ref:** 6, 563, 662, 4661, 5407.

**20841 Taxuspinanane A**

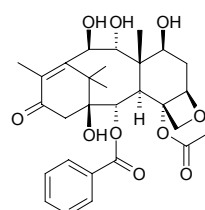
C<sub>47</sub>H<sub>50</sub>NO<sub>14</sub> (861.99).  $[\alpha]_D = -40.2^\circ$  (MeOH). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20842 Taxuspinanane B**

C<sub>33</sub>H<sub>40</sub>O<sub>11</sub> (612.68).  $[\alpha]_D = +26.6^\circ$  (MeOH). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

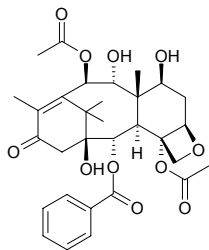
**20843 Taxuspinanane C**

[198207-98-6] C<sub>29</sub>H<sub>36</sub>O<sub>10</sub> (544.60). mp 152~154°C,  $[\alpha]_D = +60^\circ$  (MeOH). **Pharm:** Cytotoxic (P<sub>388</sub>, IC<sub>50</sub> = 10 $\mu$ g/mL). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1790.

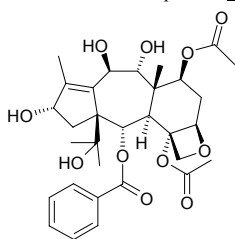


**20844 Taxuspinanane D**

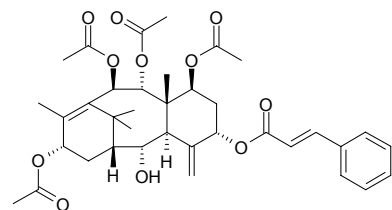
13-Oxo-7,9-bis-deacetylbaaccatin VI C<sub>31</sub>H<sub>38</sub>O<sub>11</sub> (586.64). [ $\alpha$ ]<sub>D</sub> = -40.2° (MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20845 Taxuspinanane F**

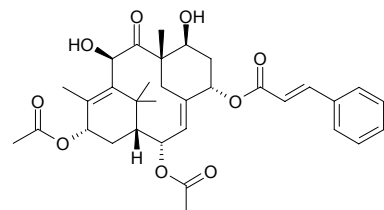
9-Deacetylaxayuntin E C<sub>31</sub>H<sub>40</sub>O<sub>11</sub> (588.66). [ $\alpha$ ]<sub>D</sub> = -23.2° (CHCl<sub>3</sub>). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20846 Taxuspinanane G**

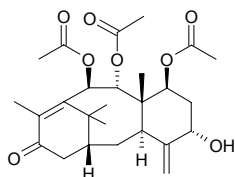
2 $\alpha$ -Deacetylaxininine J C<sub>37</sub>H<sub>46</sub>O<sub>11</sub> (666.77). [ $\alpha$ ]<sub>D</sub> = -54.9° (CHCl<sub>3</sub>). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20847 Taxuspinanane H**

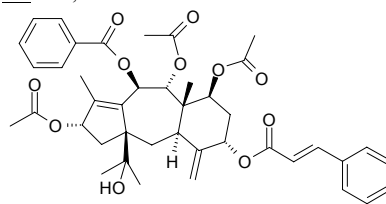
Deaminoacylcinnamoyltaxine A C<sub>33</sub>H<sub>40</sub>O<sub>9</sub> (580.68). [ $\alpha$ ]<sub>D</sub> = -42° (CHCl<sub>3</sub>). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20848 Taxuspinanane K**

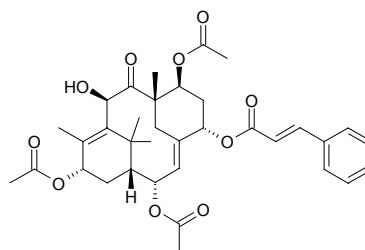
C<sub>26</sub>H<sub>36</sub>O<sub>8</sub> (476.57). [ $\alpha$ ]<sub>D</sub> = +95.2° (CHCl<sub>3</sub>). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20849 Taxuspine A**

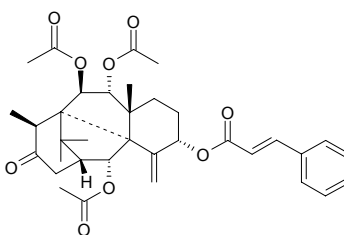
[157374-28-2] C<sub>42</sub>H<sub>48</sub>O<sub>11</sub> (728.84). [ $\alpha$ ]<sub>D</sub> = -3.4° (CHCl<sub>3</sub>). Pharm: Cytotoxic (mus, L<sub>1210</sub>, IC<sub>50</sub> = 5.8 $\mu$ g/mL; hmn, KB, 10 $\mu$ g/mL InRt = 8.9%). Source: ZI SHAN *Taxus cuspidata*, DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662, 1776.

**20850 Taxuspine B**

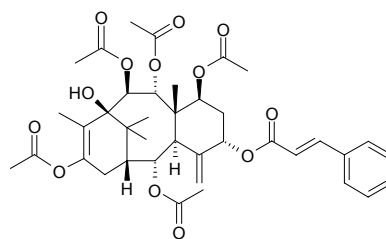
[157414-05-6] C<sub>35</sub>H<sub>42</sub>O<sub>10</sub> (622.72). [ $\alpha$ ]<sub>D</sub> = -40.6° (CHCl<sub>3</sub>). Pharm: Cytotoxic (mus, L<sub>1210</sub>, IC<sub>50</sub> = 18 $\mu$ g/mL; hmn, KB, 10 $\mu$ g/mL InRt = 11.8%; inhibits Ca<sup>2+</sup>-induced depolymerization of tubulin to overcome resistance of cancer cells). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)<sup>[3079]</sup>, *Taxus* sp. Ref: 662, 1776, 3079.

**20851 Taxuspine C**

[146278-50-4] C<sub>35</sub>H<sub>42</sub>O<sub>9</sub> (606.72). [ $\alpha$ ]<sub>D</sub> = +7.4° (CHCl<sub>3</sub>). Pharm: Cytotoxic (mus, L<sub>1210</sub>, IC<sub>50</sub> = 5.8 $\mu$ g/mL; hmn, KB, 10 $\mu$ g/mL InRt = 8.9%). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)<sup>[3079]</sup>, ZI SHAN *Taxus cuspidata*. Ref: 662, 1776, 3079.

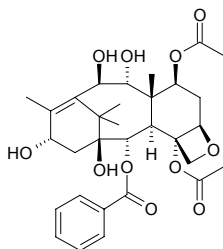
**20852 Taxuspine D**

[166990-12-1] C<sub>39</sub>H<sub>48</sub>O<sub>13</sub> (724.81). [ $\alpha$ ]<sub>D</sub> = -32.2° (MeOH). Pharm: Cytotoxic (*in vitro*, L<sub>1210</sub>, IC<sub>50</sub> = 3.0 $\mu$ g/mL; KB, IC<sub>50</sub> = 1.8 $\mu$ g/mL). Source: ZI SHAN *Taxus cuspidata*. Ref: 662, 1777.

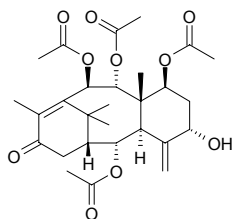


**20853 Taxuspine E**

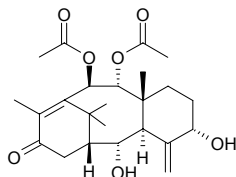
[165074-73-7]  $C_{31}H_{40}O_{11}$  (588.66).  $[\alpha]_D = -17^\circ$  ( $CHCl_3$ ). **Pharm:** Cytotoxic ( $L_{1210}$ ,  $IC_{50} = 0.27\mu g/mL$ ; KB,  $IC_{50} = 0.08\mu g/mL$ ). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1775.

**20854 Taxuspine F**

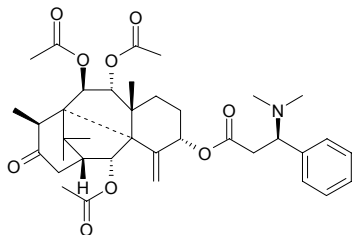
$C_{28}H_{38}O_{10}$  (534.61).  $[\alpha]_D = +50^\circ$  ( $CHCl_3$ ). **Source:** SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00023%dw)<sup>[4666]</sup>, ZI SHAN *Taxus cuspidata*. **Ref:** 662, 4666.

**20855 Taxuspine G**

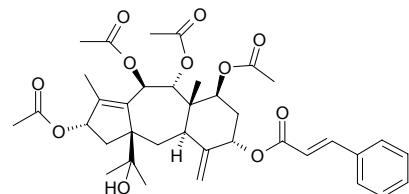
2-Deacetyltaxinine A  $C_{24}H_{34}O_7$  (434.53). mp 295–298°C,  $[\alpha]_D = +97^\circ$  ( $CHCl_3$ ). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20856 Taxuspine H**

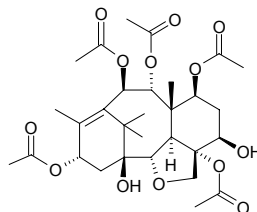
[164991-81-5]  $C_{37}H_{49}NO_9$  (651.80).  $[\alpha]_D = +6.8^\circ$  ( $CHCl_3$ ). **Pharm:** Cytotoxic (KB,  $IC_{50} = 1.6\mu g/mL$ ). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1775.

**20857 Taxuspine J**

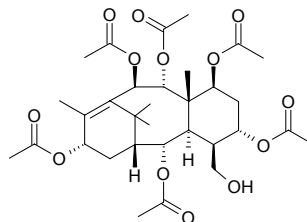
$C_{37}H_{46}O_{11}$  (666.77). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20858 Taxuspine K**

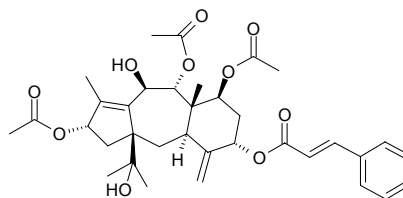
$C_{30}H_{42}O_{13}$  (610.66).  $[\alpha]_D = +14^\circ$  ( $CHCl_3$ ). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20859 Taxuspine L**

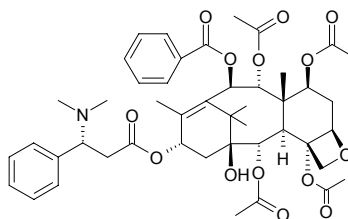
$C_{32}H_{46}O_{13}$  (638.72).  $[\alpha]_D = +108^\circ$  ( $CHCl_3$ ). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20860 Taxuspine M**

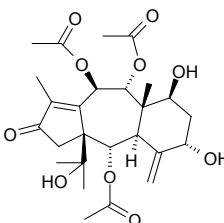
$C_{35}H_{44}O_{10}$  (624.73).  $[\alpha]_D = +35^\circ$  ( $CHCl_3$ ). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20861 Taxuspine N**

$C_{46}H_{57}NO_{14}$  (847.97).  $[\alpha]_D = -6.0^\circ$  ( $CHCl_3$ ). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

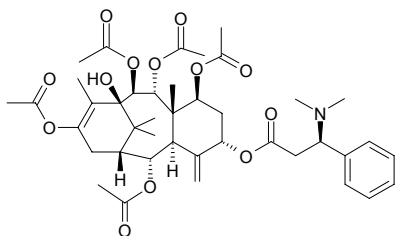
**20862 Taxuspine O**

$C_{26}H_{36}O_{10}$  (508.57).  $[\alpha]_D = +79.7^\circ$  (MeOH). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

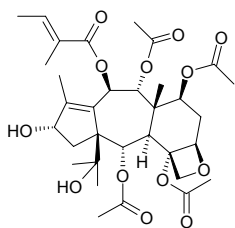


**20863 Taxuspine P**

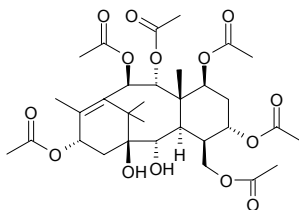
2 $\alpha$ ,7 $\beta$ ,9 $\alpha$ ,10 $\beta$ ,13-Pentaacetoxy-11 $\beta$ -hydroxy-5 $\alpha$ -(3'-*N,N*-dimethylamino-3'-phenyl)-propionyloxytaxa-4(20),12-diene C<sub>41</sub>H<sub>55</sub>NO<sub>13</sub> (769.89). Amorphous solid,  $[\alpha]_D^{22} = +39^\circ$  ( $c = 0.2$ , CHCl<sub>3</sub>),  $[\alpha]_D = +32.7^\circ$  (MeOH). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf), ZI SHAN *Taxus cuspidata*. Ref: 662, 3886.

**20864 Taxuspine Q**

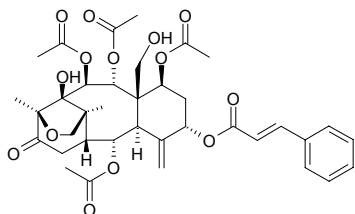
C<sub>33</sub>H<sub>46</sub>O<sub>13</sub> (650.73).  $[\alpha]_D = -8.2^\circ$  (CHCl<sub>3</sub>). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20865 Taxuspine R**

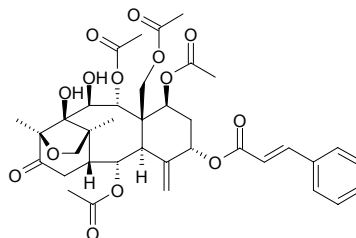
C<sub>32</sub>H<sub>46</sub>O<sub>14</sub> (654.72).  $[\alpha]_D = +68^\circ$  (CHCl<sub>3</sub>). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20866 Taxuspine S**

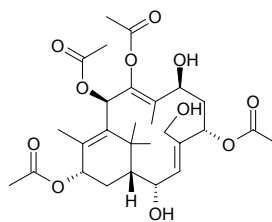
C<sub>37</sub>H<sub>44</sub>O<sub>14</sub> (712.75).  $[\alpha]_D = -4.4^\circ$  (CHCl<sub>3</sub>). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20867 Taxuspine T**

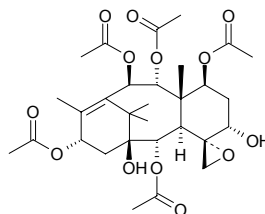
C<sub>37</sub>H<sub>44</sub>O<sub>14</sub> (712.75).  $[\alpha]_D = -13.4^\circ$  (CHCl<sub>3</sub>). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20868 Taxuspine U**

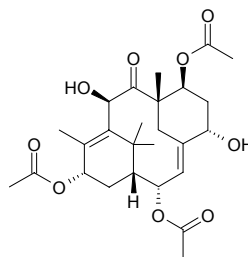
C<sub>28</sub>H<sub>40</sub>O<sub>11</sub> (552.62).  $[\alpha]_D = +18^\circ$  (MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20869 Taxuspine V**

1 $\beta$ -Hydroxy-5 $\alpha$ -deacetylbaccatin I C<sub>30</sub>H<sub>42</sub>O<sub>13</sub> (610.66). mp 230~232°C,  $[\alpha]_D = +56^\circ$  (CHCl<sub>3</sub>), mp 273~275°C,  $[\alpha]_D = +138.7^\circ$  (CHCl<sub>3</sub>). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*, ZI SHAN *Taxus cuspidata*. Ref: 662.

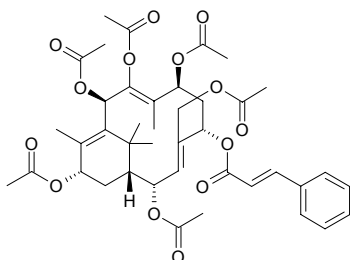
**20870 Taxuspine W**

2 $\alpha$ ,7 $\beta$ ,13 $\alpha$ -Triacetoxy-5 $\alpha$ ,10 $\beta$ -dihydroxy-9-keto-2(3 $\rightarrow$ 20)-abeo-taxane C<sub>26</sub>H<sub>36</sub>O<sub>9</sub> (492.57). mp 172~174°C,  $[\alpha]_D = -94.7^\circ$  (MeOH),  $[\alpha]_D = -147^\circ$ . Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*, ZI SHAN *Taxus cuspidata*. Ref: 662.

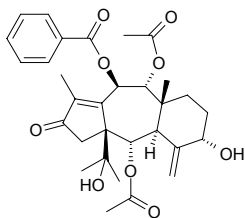


**20871 Taxuspine X**

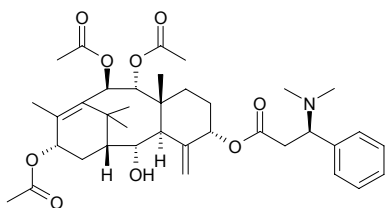
[194782-02-0] C<sub>41</sub>H<sub>50</sub>O<sub>14</sub> (766.85). Colorless amorphous solid,  $[\alpha]_D^{22} = +31.7^\circ$  ( $c = 0.13$ , chloroform). **Pharm:** Cytotoxic (mus, L<sub>1210</sub>, *in vitro*, IC<sub>50</sub> = 4.2 μg/mL). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)<sup>[4611]</sup>, ZI SHAN *Taxus cuspidata*. **Ref:** 662, 963, 4611.

**20872 Taxuspine Y**

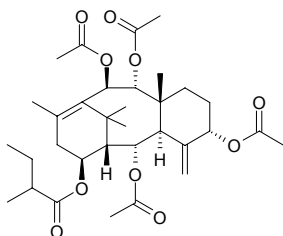
[194782-03-1] C<sub>31</sub>H<sub>38</sub>O<sub>9</sub> (554.64). Colorless amorphous solid,  $[\alpha]_D^{31} = -25.4^\circ$  ( $c = 0.17$ , chloroform). **Pharm:** Cytotoxic (mus, L<sub>1210</sub>, *in vitro*, IC<sub>50</sub> = 5.4 μg/mL). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 963.

**20873 Taxuspine Z**

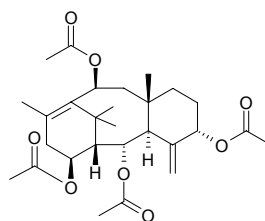
[194782-04-2] C<sub>37</sub>H<sub>51</sub>NO<sub>9</sub> (653.82). Colorless amorphous solid,  $[\alpha]_D^{28} = +31.2^\circ$  ( $c = 0.08$ , chloroform). **Pharm:** Cytotoxic (KB, *in vitro*, IC<sub>50</sub> = 6.2 μg/mL). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 963.

**20874 Taxuyunnanine B**

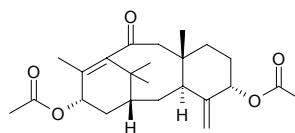
C<sub>33</sub>H<sub>48</sub>O<sub>10</sub> (604.74).  $[\alpha]_D = +58.2^\circ$  ( $c = 1.2$ , CHCl<sub>3</sub>). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20875 Taxuyunnanine C**

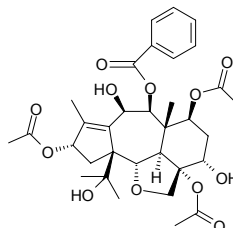
2α,5α,10β,14β-Tetraacetoxytaxa-4(20),11-diene C<sub>28</sub>H<sub>40</sub>O<sub>8</sub> (504.63).  $[\alpha]_D = +41.1^\circ$  ( $c = 1.2$ , CHCl<sub>3</sub>). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*<sup>[3079]</sup>, HONG DOU SHAN *Taxus chinensis*. **Ref:** 662, 3079.

**20876 Taxuyunnanine D**

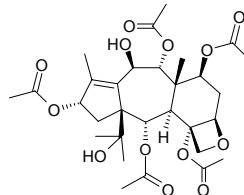
C<sub>24</sub>H<sub>34</sub>O<sub>5</sub> (402.54).  $[\alpha]_D = -61.0^\circ$  (CHCl<sub>3</sub>). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20877 Taxuyunnanine E**

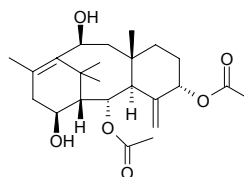
[167425-73-2] C<sub>33</sub>H<sub>42</sub>O<sub>12</sub> (630.70).  $[\alpha]_D = +3.3^\circ$  (CHCl<sub>3</sub>). **Pharm:** Cytotoxic (*in vitro*, Colon26-L5, EC<sub>50</sub> > 100 μg/mL; HT1080, EC<sub>50</sub> > 100 μg/mL; control 5-Fluorouracil, Colon26-L5, EC<sub>50</sub> = 0.29 μg/mL; HT1080, EC<sub>50</sub> = 0.07 μg/mL)<sup>[4661]</sup>; NO production inhibitor (IC<sub>50</sub> = 54.8 μmol/L, control L-NMMA, IC<sub>50</sub> = 28.5 μmol/L)<sup>[5407]</sup>. **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood; yield = 0.0022% dw)<sup>[4661]</sup>. **Ref:** 662, 4661, 5407.

**20878 Taxuyunnanine F**

C<sub>30</sub>H<sub>42</sub>O<sub>13</sub> (610.66).  $[\alpha]_D = -22.6^\circ$  (CHCl<sub>3</sub>). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20879 Taxuyunnanine G**

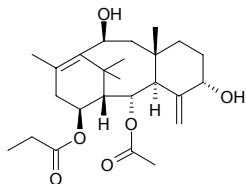
C<sub>24</sub>H<sub>36</sub>O<sub>6</sub> (420.55).  $[\alpha]_D = +40.6^\circ$  (CHCl<sub>3</sub>). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.



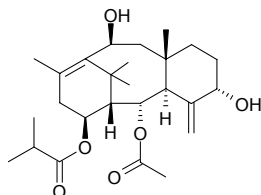


**20880 Taxuyunnanine H**

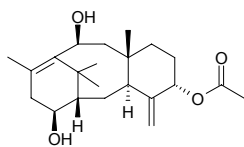
$C_{25}H_{38}O_6$  (434.58).  $[\alpha]_D^{25} = +101.8^\circ$  ( $CHCl_3$ ). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis*. [Ref](#): 662.

**20881 Taxuyunnanine I**

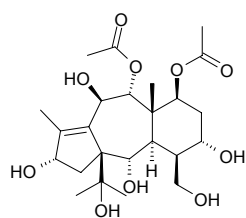
$C_{26}H_{40}O_6$  (448.61).  $[\alpha]_D^{25} = +27.1^\circ$  ( $CHCl_3$ ). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis*. [Ref](#): 662.

**20882 Taxuyunnanine J**

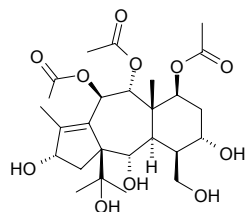
$C_{22}H_{34}O_4$  (362.51).  $[\alpha]_D^{25} = +71.3^\circ$  ( $CHCl_3$ ). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis*. [Ref](#): 662.

**20883 Taxuyunnanine P**

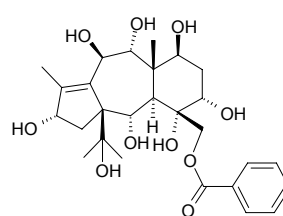
$C_{24}H_{38}O_{10}$  (486.56). White powder,  $[\alpha]_D^{28} = -12.7^\circ$  ( $c = 0.65$ , MeOH). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). [Ref](#): 5188.

**20884 Taxuyunnanine Q**

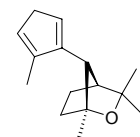
$C_{26}H_{40}O_{11}$  (528.60). White powder,  $[\alpha]_D^{28} = -44.0^\circ$  ( $c = 0.25$ , MeOH). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). [Ref](#): 5188.

**20885 Taxuyunnanine R**

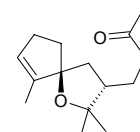
$C_{27}H_{38}O_{10}$  (522.60). White powder,  $[\alpha]_D^{28} = -5.0^\circ$  ( $c = 0.10$ , MeOH). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). [Ref](#): 5188.

**20886 (-)-(6S,7S,10R)-Taylocyclane**

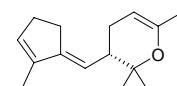
1,3,3-Trimethyl-7-(5-methylcyclopenta-1,4-dien-1-yl)-2-oxabicyclo[2,2,1]heptane  $C_{15}H_{22}O$  (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

**20887 (5S\*,7S\*)-Taylofuran**

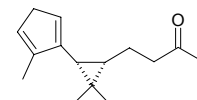
4-(2,2,6-Trimethyl-1-oxaspiro[4,4]non-6-en-3-yl)-butan-2-one  $C_{15}H_{24}O_2$  (236.36). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

**20888 (-)-(7S)-(E)-Taylopyran**

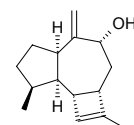
2,2,6-Trimethyl-3-[(E)(2-methylcyclopenta-2-en-1-ylidene)methyl]-3,4-dihydro-2H-pyran  $C_{15}H_{22}O$  (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

**20889 (-)-(6R,7S)-α-Taylorione**

4-[2,2-Dimethyl-3-(5-methylcyclopenta-1,4-dien-1-yl)-cyclopropyl]-butan-2-one  $C_{15}H_{22}O$  (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

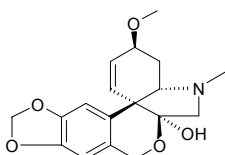
**20890 (1R\*,4S\*,5S\*,6R\*,7S\*,9R\*)-Taynudol**

2,8-Dimethyl-5-methylene-2a,3,4,5,5a,6,7,8,8a,8b-decahydro-cyclobuta[e]azulen-4-ol  $C_{15}H_{22}O$  (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

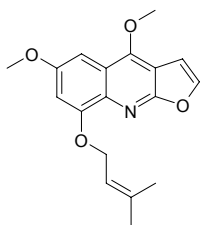


**20891 Tazettine**

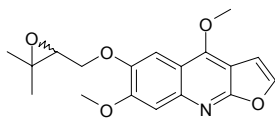
Sekisanine; Seqisanoline; Ungermine [507-79-9]  $C_{18}H_{21}NO_5$  (331.37). mp 210~211°C (vacuum), mp 237~238°C,  $[\alpha]_D^{25} = +150.3^\circ$  (chloroform), soluble in methanol, ethanol, chloroform, slightly soluble in ether.<sup>[5507]</sup> **Pharm:** AChE inhibitor ( $IC_{50} = (705 \pm 63) \mu\text{mol/L}$ ; control Galanthamine,  $IC_{50} = (1.9 \pm 0.16) \mu\text{mol/L}$ )<sup>[4944]</sup>. **Source:** DA YI ZHI JIAN *Lycoris aurea*, GAN FENG CAO *Zephyranthes candida*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], SHUI GUI JIAO YE *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancratium littoralis*], DUO HUA SHUI XIAN *Narcissus tazetta* (in 1956, the compound was isolated from the plant by T.Ikeda et al.)<sup>[5505]</sup>, SHUI XIAN GEN *Narcissus tazetta* var. *chinensis*, WEN SHU LAN *Crinum asiaticum* var. *sinicum*, *Cyrtanthus falcatius*. **Ref:** 6, 4952, 5505, 5507.

**20892 Tecleabine**

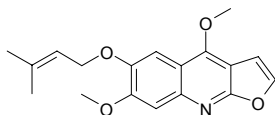
4,6-Dimethoxy-8-prenyloxyfuroquinoline  $C_{18}H_{19}NO_4$  (313.36). Needles, mp 107~108°C. **Source:** GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts). **Ref:** 3503.

**20893 Tecleanatalensine A**

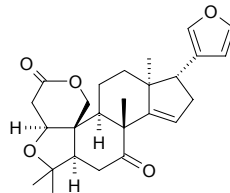
Tecleoxine; 6-[(2,3-Epoxy-3-methylbutyl)oxy]-4,7-dimethoxyfuro[2,3-b]quinoline  $C_{18}H_{19}NO_5$  (329.36). Needles, mp 120~12°C,  $[\alpha]_D = +10^\circ$  ( $c = 0.05$ , MeOH); pale yellow gum,  $[\alpha]_D = +11^\circ$  ( $c = 0.19$ ,  $CH_2Cl_2$ ). **Source:** GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts), *Teclea natalensis* (leaf). **Ref:** 3503, 5267.

**20894 Tecleanatalensine B**

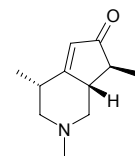
4,7-Dimethoxy-6-[(3-methyl-2-butenyl)oxy]furo[2,3-b]quinoline  $C_{18}H_{19}NO_4$  (313.36). Pale yellow gum. **Source:** *Teclea natalensis* (leaf). **Ref:** 5267.

**20895 Tecleanin**

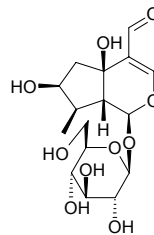
$C_{26}H_{32}O_5$  (424.54). **Source:** DA YE YOU MU YUN XIANG *Teclea grandifolia*, *Teclea oubanguiensis*, *Turraea wakefieldii* (root cortex). **Ref:** 3459.

**20896 Tecomanine**

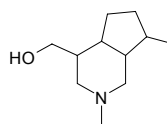
$C_{11}H_{17}NO$  (179.26). Liquid, bp 125°C/0.1mmHg,  $[\alpha]_D^{24} = -175^\circ$  ( $c = 1.17$ , chloroform). **Pharm:** Hypoglycemic; LD (mus) = 300mg/kg. **Source:** HUANG ZHONG HUA *Tecoma stans*. **Ref:** 1437.

**20897 Tecomoside**

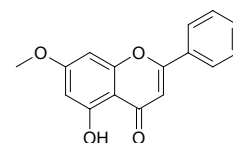
$C_{16}H_{24}O_{10}$  (376.36). **Source:** ZI WEI JING YE *Campsis grandiflora*. **Ref:** 660.

**20898 Tecostanine**

$C_{11}H_{21}NO$  (183.30). mp 85°C,  $[\alpha]_D^{20} = (0 \pm 2)^\circ$  (methanol); hydrochloride: mp 262°C, methyl iodide: mp 245°C. **Pharm:** Hypoglycemic. **Source:** HUANG ZHONG HUA *Tecoma stans*. **Ref:** 661.

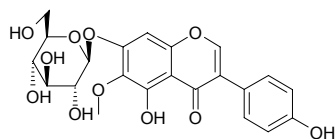
**20899 Tectochrysin**

5-Hydroxy-7-methoxyflavone  $C_{16}H_{12}O_4$  (268.27). Yellow slice crystals (methanol), mp 163°C. **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, LPS-activated mouse peritoneal macrophages,  $IC_{50} = 23 \mu\text{mol/L}$ ; control *L*-NMMA,  $IC_{50} = 28 \mu\text{mol/L}$ )<sup>[4655]</sup>;  $\beta$ -hexosaminidase release inhibitor (RBL-2H3 Cells, 100  $\mu\text{mol/L}$ , InRt = 75.1%; control Curcumin, InRt = 62.6%)<sup>[4655]</sup>. **Source:** SHAN YANG *Populus davidiana*, *Nuxia sphaerocephala* (leaf), YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0013%dw)<sup>[4655]</sup>. **Ref:** 2212, 4419, 4655.

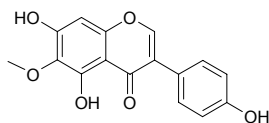


**20900 Tectoridin**

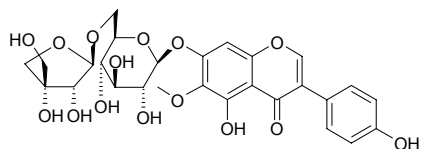
Tectorigin; Shekanin C<sub>22</sub>H<sub>22</sub>O<sub>11</sub> (462.41). mp 258°C. **Pharm:** Antioxidant (OH• radical scavenger)<sup>[2452]</sup>; anti-inflammatory (TPA-stimulated rat peritoneal macrophages, inhibits PGE<sub>2</sub> production)<sup>[4415]</sup>; anti-angiogenic (chick embryo, 30μg/egg, InRt = 35.0%, control *trans*-Retinoic acid, 1μg/egg, InRt = 77.3%)<sup>[5423]</sup>; antiproliferative (CPAE cell, 100μmol/L, InRt = 43.6%, control Genistein, InRt = 56.4%, IC<sub>50</sub> = 66.9μmol/L)<sup>[5423]</sup>; antineoplastic (ICR mouse bearing sarcoma 180, ip dose of 30mg/(kg·d) for 10days, inhibition of tumor volume by 24.8%)<sup>[5423]</sup>. **Source:** BAI HUA SHE GAN *Iris dichotoma* (dried rhizome: mean content = 0.86%)<sup>[5508]</sup>, HE AN HUANG TAN *Dalbergia riparia*, SHE GAN *Belamcanda chinensis* (dried rhizome: mean content = 1.72%)<sup>[5508]</sup>, YUAN WEI *Iris tectorum*. **Ref:** 6, 658, 2452, 4128, 4415, 5423, 5508.

**20901 Tectorigenin**

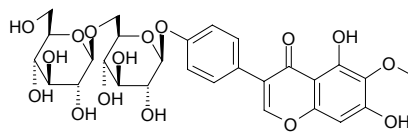
C<sub>16</sub>H<sub>12</sub>O<sub>6</sub> (300.27). mp 227°C (dec). **Pharm:** Antifungal<sup>[2452]</sup>; free radical scavenger (O<sub>2</sub><sup>-</sup>, ·OH and H<sub>2</sub>O<sub>2</sub> free radical)<sup>[2452]</sup>; anti-inflammatory (TPA-stimulated rat peritoneal macrophages, inhibits PGE<sub>2</sub> production)<sup>[4415]</sup>; anti-angiogenic (chick embryo, 30μg/egg, InRt = 80.0%, control *trans*-Retinoic acid, 1μg/egg, InRt = 77.3%)<sup>[5423]</sup>; antiproliferative (CPAE cell, 100μmol/L, InRt = 55.0%, IC<sub>50</sub> = 67.9μmol/L, control Genistein, InRt = 56.4%, IC<sub>50</sub> = 66.9μmol/L)<sup>[5423]</sup>; antineoplastic (mouse implanted with murine Lewis lung carcinoma (LLC), sc dose of 30mg/(kg·d) for 20 days, inhibition of tumor volume by 30.8%)<sup>[5423]</sup>; antineoplastic (ICR mouse bearing sarcoma 180, ip dose of 30mg/(kg·d) for 10days, inhibition of tumor volume by 44.2%)<sup>[5423]</sup>. **Source:** BAI HUA SHE GAN *Iris dichotoma* (dried rhizome: content = 0.87%)<sup>[5508]</sup>, CI MANG BING HUA *Ononis spinosa*, DE GUO YUAN WEI *Iris germanica*, SHE GAN *Belamcanda chinensis* (dried rhizome: content = 1.37%)<sup>[5508]</sup>, YUAN WEI *Iris tectorum* (dried rhizome: content = 3.14%)<sup>[5508]</sup>, *Dalbergia* sp. **Ref:** 6, 658, 2452, 4128, 4415, 5423, 5501, 5508.

**20902 Tectorigenin-7-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

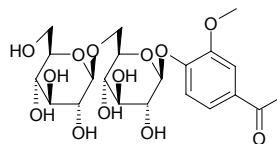
C<sub>27</sub>H<sub>30</sub>O<sub>15</sub> (594.53). Yellow amorphous powder, [α]<sub>D</sub><sup>25</sup> = -67.0° (c = 0.28, MeOH). **Source:** YIN DU HUANG TAN *Dalbergia sissoo* (stem and leaf-bark). **Ref:** 5172.

**20903 Tectorigenin-4'-glucosyl(1→6)glucoside**

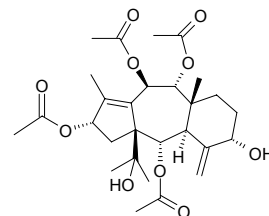
C<sub>28</sub>H<sub>32</sub>O<sub>16</sub> (624.56). Yellow amorphous powder. **Source:** AI JI ZHONG ZHI YUAN WEI *Iris carthaliniae*. **Ref:** 1880.

**20904 Tectoruside**

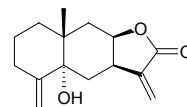
C<sub>21</sub>H<sub>30</sub>O<sub>13</sub> (490.47). mp 207~209°C. **Source:** YUAN WEI *Iris tectorum* (rhizome). **Ref:** 6, 660.

**20905 Teixidol**

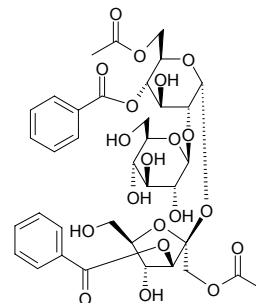
C<sub>28</sub>H<sub>40</sub>O<sub>10</sub> (536.63). mp 159°C, [α]<sub>D</sub> = -15.91° (CHCl<sub>3</sub>). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20906 Telekin**

C<sub>15</sub>H<sub>20</sub>O<sub>3</sub> (248.32). **Source:** TIAN MING JING *Carpesium abrotanoides*, MEI LI TE LE JU *Telekia spectiosa*. **Ref:** 660.

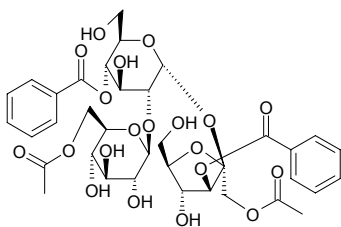
**20907 Telephiose A**

C<sub>36</sub>H<sub>44</sub>O<sub>20</sub> (796.74). [α]<sub>D</sub> = -11.0°. **Source:** XIAO HUA YUAN ZHI *Polygala telephioides*. **Ref:** 2184, 4044.

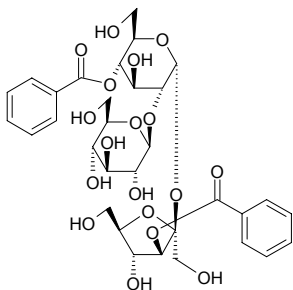


**20908 Telephiose B**

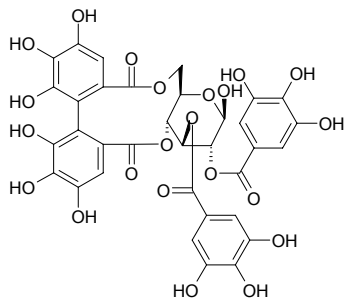
$C_{36}H_{44}O_{20}$  (796.74).  $[\alpha]_D = -17.6^\circ$ . Source: XIAO HUA YUAN ZHI *Polygala telephioides*. Ref: 2184, 4044.

**20909 Telephiose C**

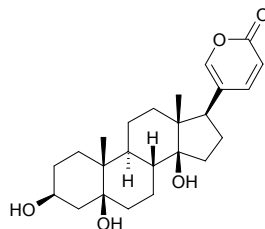
$C_{32}H_{40}O_{18}$  (712.66).  $[\alpha]_D = -19.5^\circ$ . Source: XIAO HUA YUAN ZHI *Polygala telephioides*. Ref: 2184, 4044.

**20910 Tellimagrandin I**

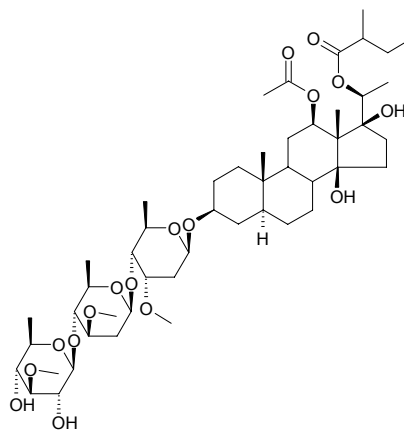
1-Desgalloylgeniin  $C_{34}H_{26}O_{22}$  (786.57). Pharm: Antihepatotoxin; inhibits lipolysis (rat fat cells, induced by adrenaline); antioxidant (SOD-like activity,  $EC_{50} = 53.4\mu\text{mol/L}$ , control Gallic acid,  $EC_{50} = 31.7\mu\text{mol/L}$ , *L*-Ascorbic acid,  $EC_{50} = 34.6\mu\text{mol/L}$ )<sup>[3408]</sup>; antioxidant (DPPH scavenger,  $EC_{50} = 0.79\mu\text{mol/L}$ , control Gallic acid,  $EC_{50} = 5.88\mu\text{mol/L}$ , *L*-Ascorbic acid,  $EC_{50} = 6.25\mu\text{mol/L}$ )<sup>[3408]</sup>. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.019%fw)<sup>[4695]</sup>, DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], DUO ZHI AN *Eucalyptus viminalis*, FAN SHI LIU GAN *Psidium guajava*, FEI YUE GUO *Feijoa sellowiana*, HU TAO REN *Juglans regia*, SHAN CHA *Camellia japonica*, SHUI YANG MEI *Geum japonicum*, XIN SHAO NA CAO *Tellima grandifolia*, *Rosa* sp., *Quercus* sp., *Fuchsia* sp. Ref: 658, 3408, 4695.

**20911 Telocinobufagin**

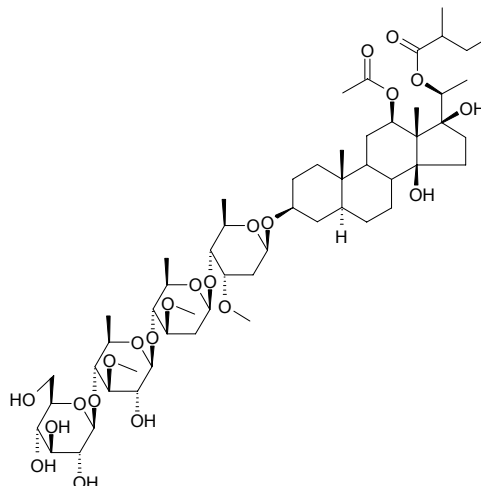
$C_{24}H_{34}O_5$  (402.54). mp 160°C, 207~211°C. Pharm: Cytotoxic (*in vitro*, KB,  $IC_{50} = 1.3\mu\text{g/mL}$ ; HL-60,  $IC_{50} < 0.01\mu\text{g/mL}$ ; MH-60,  $IC_{50} > 25\mu\text{g/mL}$ )<sup>[3082]</sup>. Source: CHAN SU *Bufo bufo gargarizans* (dried secretion: content = 0.44%)<sup>[5508]</sup>; *Bufo melanostictus* (dried secretion: content = 0.03%)<sup>[5508]</sup>. Ref: 2, 3082, 5508.

**20912 Telosmoside A<sub>1</sub>**

Telosmogenin I 3-*O*- $\beta$ -*D*-thevetopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -*D*-oleandropyranosyl-(1 $\rightarrow$ 4)- $\beta$ -*D*-cymaropyranoside  $C_{49}H_{82}O_{17}$  (943.19). White amorphous powder,  $[\alpha]_D^{30} = -9.6^\circ$  ( $c = 2.80$ , MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

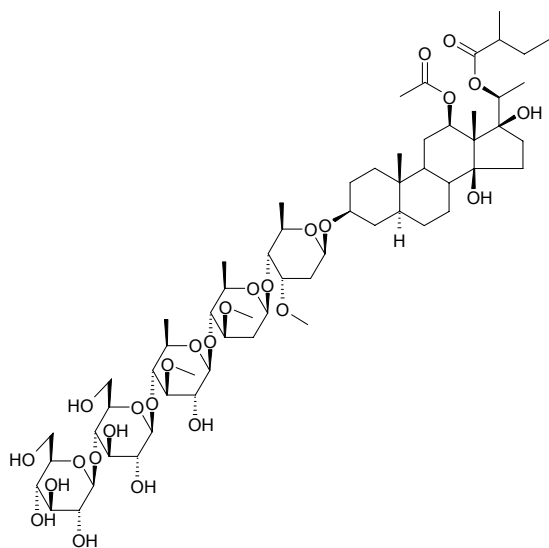
**20913 Telosmoside A<sub>2</sub>**

Telosmogenin I 3-*O*- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -*D*-thevetopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -*D*-oleandropyranosyl-(1 $\rightarrow$ 4)- $\beta$ -*D*-cymaropyranoside  $C_{55}H_{92}O_{22}$  (1105.33). White amorphous powder,  $[\alpha]_D^{31} = -2.2^\circ$  ( $c = 1.79$ , MeOH). Pharm: Bitter. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

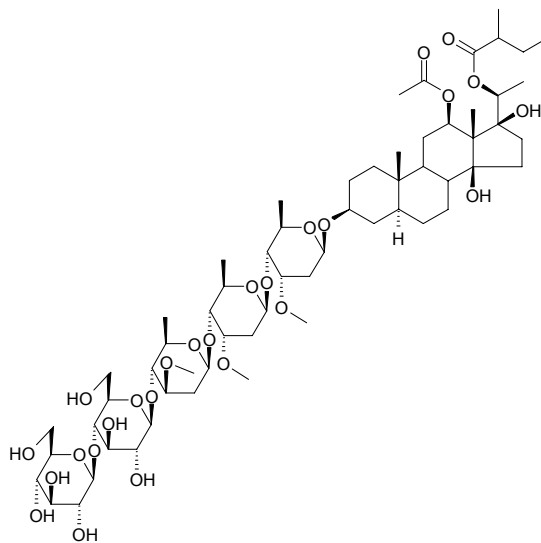


**20914 Telosmoside A<sub>3</sub>**

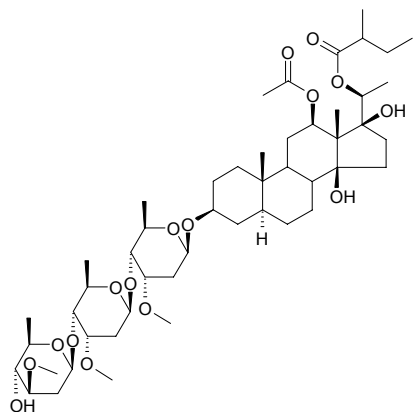
C<sub>61</sub>H<sub>102</sub>O<sub>27</sub> (1267.48). White amorphous powder,  $[\alpha]_D^{31} = -0.7^\circ$  ( $c = 1.49$ , MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20916 Telosmoside A<sub>5</sub>**

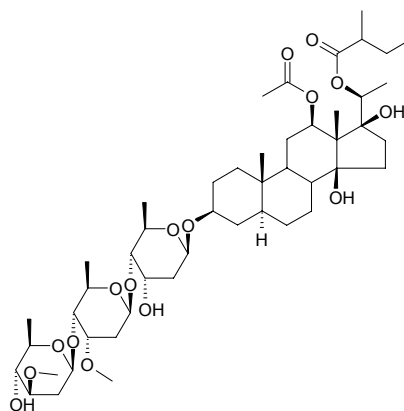
C<sub>61</sub>H<sub>102</sub>O<sub>26</sub> (1251.48). White amorphous powder,  $[\alpha]_D^{21} = +2.0^\circ$  ( $c = 0.51$ , MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20915 Telosmoside A<sub>4</sub>**

Telosmogenin I 3-O- $\beta$ -D-oleandropyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-cymaropyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-cymaropyranoside C<sub>49</sub>H<sub>82</sub>O<sub>16</sub> (927.19). White amorphous powder,  $[\alpha]_D^{30} = +1.2^\circ$  ( $c = 0.87$ , MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

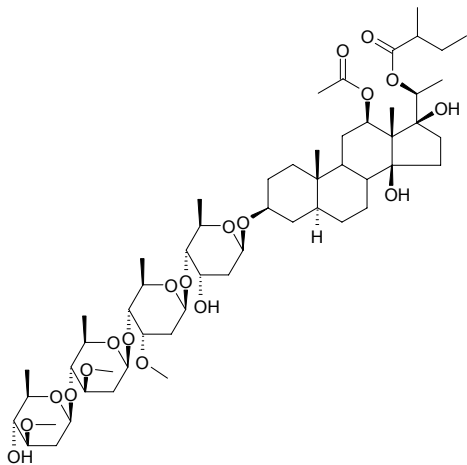
**20917 Telosmoside A<sub>6</sub>**

Telosmogenin I 3-O- $\beta$ -D-oleandropyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-cymaropyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-digitoxopyranoside C<sub>48</sub>H<sub>80</sub>O<sub>16</sub> (913.16). White amorphous powder,  $[\alpha]_D^{30} = -6.8^\circ$  ( $c = 1.76$ , MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

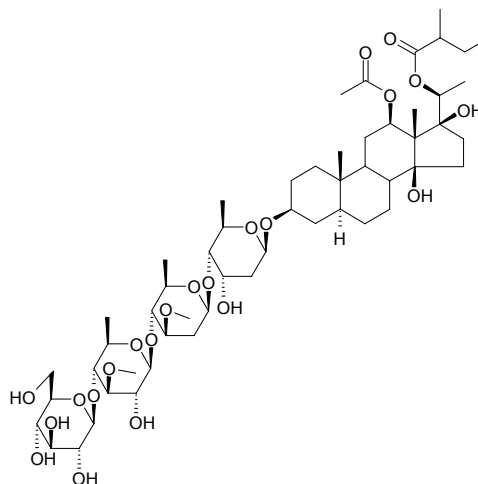


**20918 Telosmoside A<sub>7</sub>**

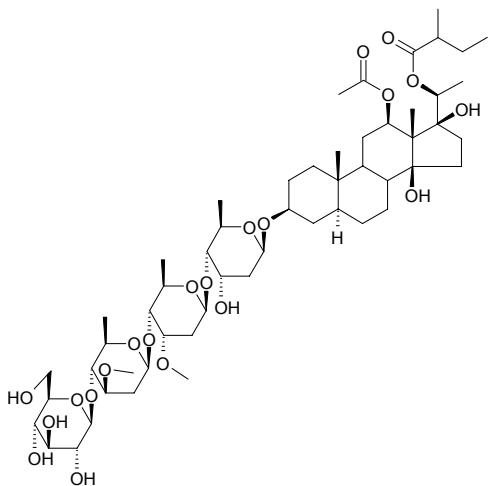
C<sub>55</sub>H<sub>92</sub>O<sub>19</sub> (1057.19). White amorphous powder,  $[\alpha]_D^{30} = -8.3^\circ$  ( $c = 1.92$ , MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20920 Telosmoside A<sub>9</sub>**

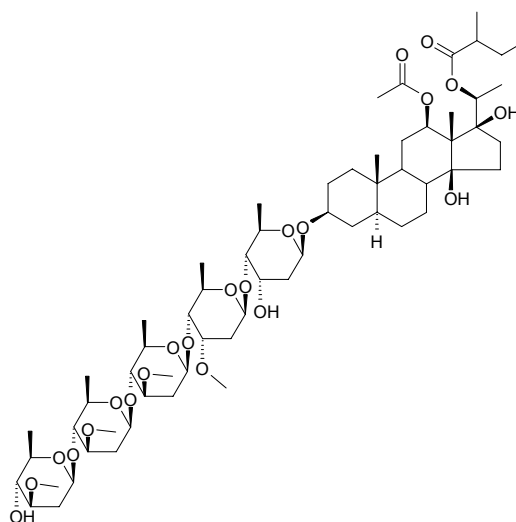
Telosmogenin I 3-*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-thevetopyranosyl-(1→4)-β-*D*-oleandropyranosyl-(1→4)-β-*D*-digitoxopyranoside C<sub>54</sub>H<sub>90</sub>O<sub>22</sub> (1091.31). White amorphous powder,  $[\alpha]_D^{30} = -6.0^\circ$  ( $c = 0.67$ , MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20919 Telosmoside A<sub>8</sub>**

C<sub>54</sub>H<sub>90</sub>O<sub>21</sub> (1075.31). White amorphous powder,  $[\alpha]_D^{30} = -2.3^\circ$  ( $c = 0.89$ , MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

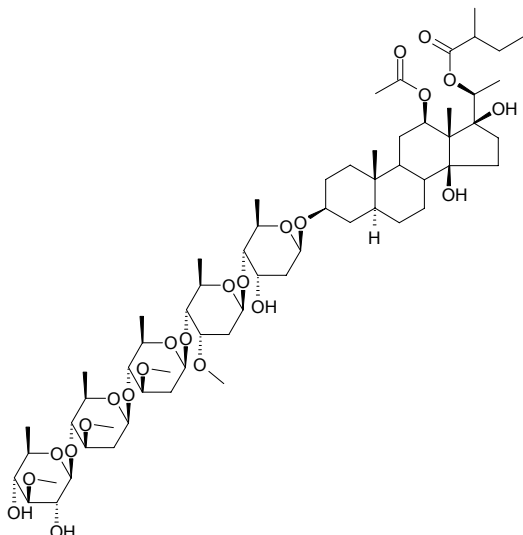
**20921 Telosmoside A<sub>10</sub>**

C<sub>62</sub>H<sub>104</sub>O<sub>22</sub> (1201.51). White amorphous powder,  $[\alpha]_D^{21} = +7.6^\circ$  ( $c = 0.53$ , MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

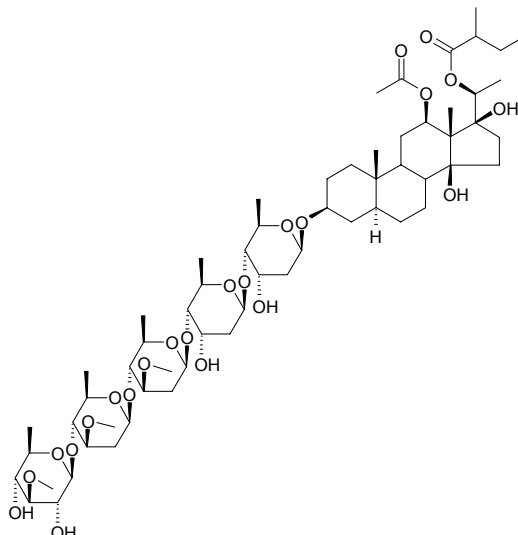


**20922 Telosmoside A<sub>11</sub>**

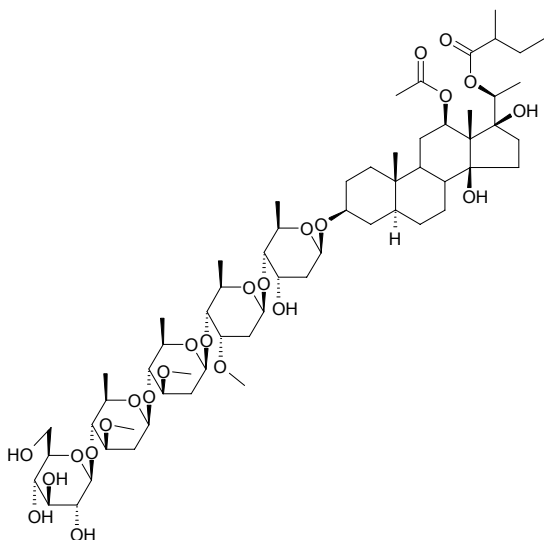
C<sub>62</sub>H<sub>104</sub>O<sub>23</sub> (1217.51). White amorphous powder,  $[\alpha]_D^{31} = -7.0^\circ$  ( $c = 1.85$ , MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20924 Telosmoside A<sub>13</sub>**

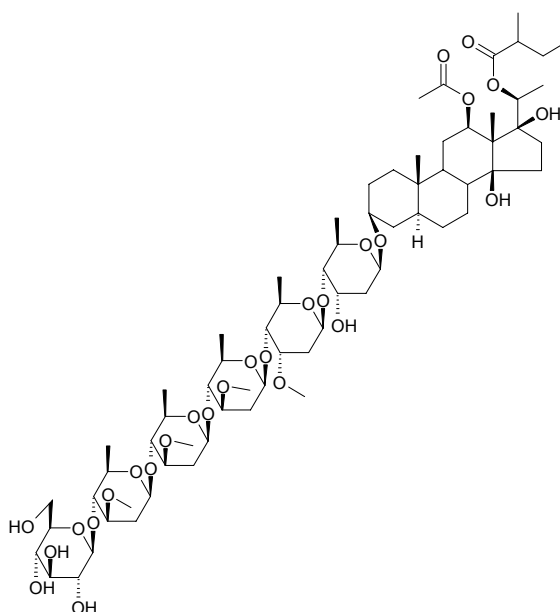
C<sub>61</sub>H<sub>102</sub>O<sub>23</sub> (1203.48). White amorphous powder,  $[\alpha]_D^{31} = -16.3^\circ$  ( $c = 1.41$ , MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20923 Telosmoside A<sub>12</sub>**

C<sub>61</sub>H<sub>102</sub>O<sub>24</sub> (1219.48). White amorphous powder,  $[\alpha]_D^{30} = -5.0^\circ$  ( $c = 2.38$ , MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

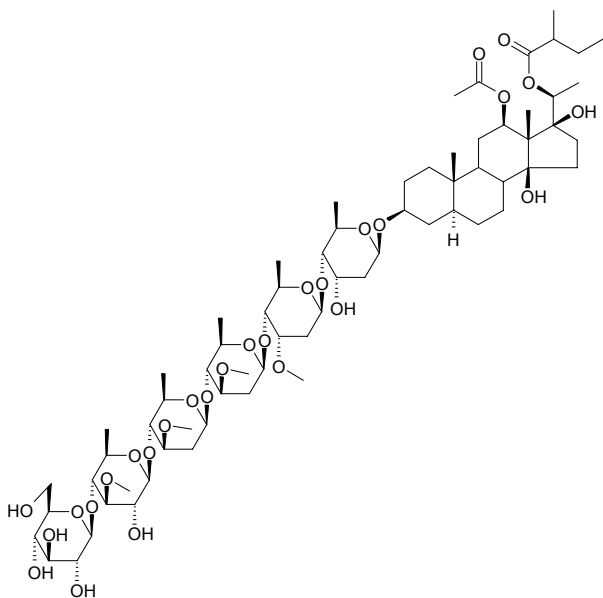
**20925 Telosmoside A<sub>14</sub>**

C<sub>68</sub>H<sub>114</sub>O<sub>27</sub> (1363.65). White amorphous powder,  $[\alpha]_D^{21} = -7.5^\circ$  ( $c = 3.05$ , MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

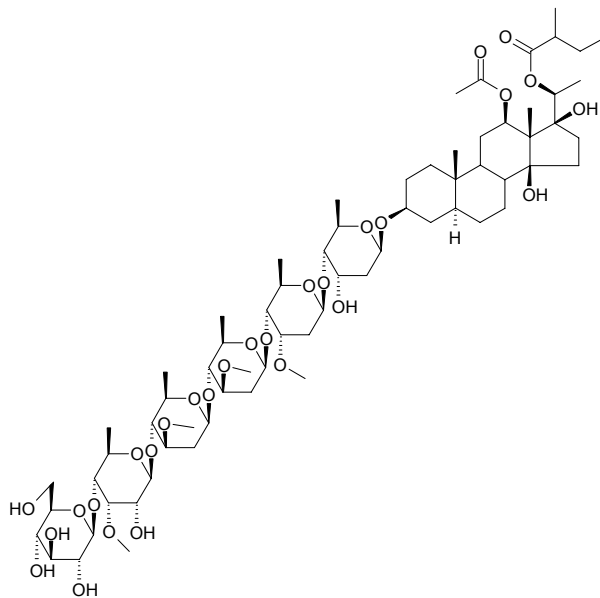


**20926 Telosmoside A<sub>15</sub>**

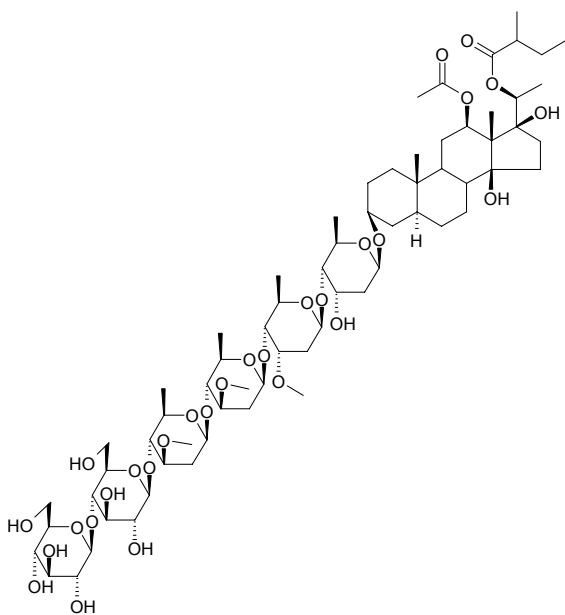
$C_{68}H_{114}O_{28}$  (1379.65). White amorphous powder,  $[\alpha]_D^{31} = +3.7^\circ$  ( $c = 1.35$ , MeOH). **Pharm:** Sweetener (its sweetness intensity is 1000 times greater than that of sucrose). **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20928 Telosmoside A<sub>17</sub>**

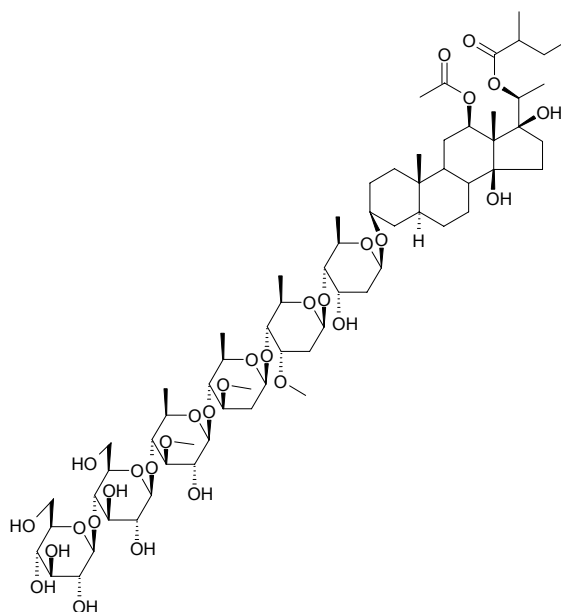
$C_{68}H_{114}O_{28}$  (1379.65). White amorphous powder,  $[\alpha]_D^{30} = +2.0^\circ$  ( $c = 2.51$ , MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20927 Telosmoside A<sub>16</sub>**

$C_{67}H_{112}O_{29}$  (1381.62). White amorphous powder,  $[\alpha]_D^{30} = +6.0^\circ$  ( $c = 2.51$ , MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20929 Telosmoside A<sub>18</sub>**

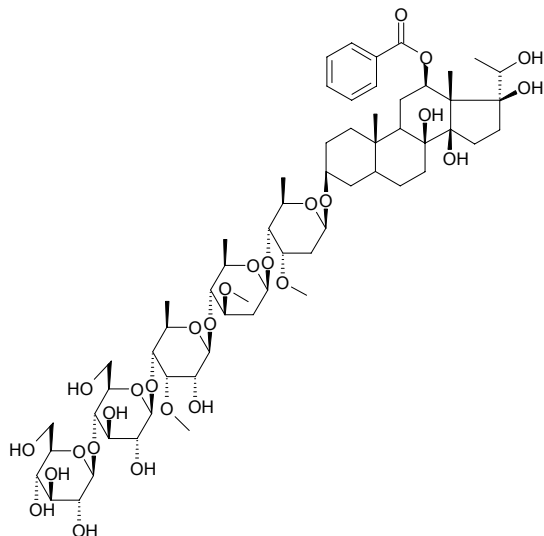
$C_{67}H_{112}O_{30}$  (1397.62). White amorphous powder,  $[\alpha]_D^{31} = +4.7^\circ$  ( $c = 1.93$ , MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.



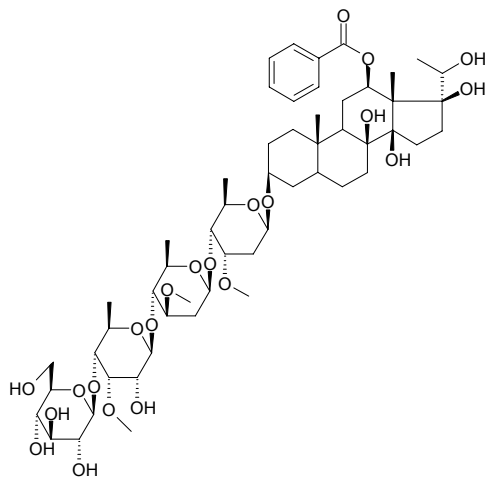


**20930 Tenacissoside J**

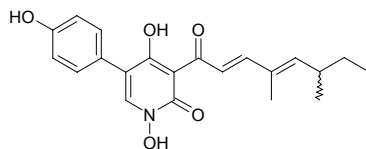
$C_{61}H_{96}O_{27}$  (1261.43). White powder ( $CHCl_3$ ). Source: TONG GUANG TENG *Marsdenia tenacissima*. Ref: 4837.

**20931 Tenacissoside K**

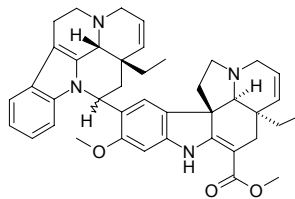
$C_{55}H_{86}O_{22}$  (1099.29). White powder ( $CHCl_3$ ). Source: TONG GUANG TENG *Marsdenia tenacissima*. Ref: 4837.

**20932 Tenellin**

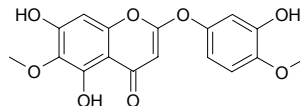
$C_{21}H_{23}NO_5$  (369.42). Source: BAI JIANG CAN *Bombyx mori*, BAI JIANG JUN *Beauveria bassiana*. Ref: 660.

**20933 Tenuicausine**

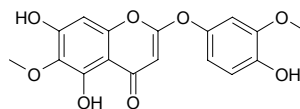
[119212-24-7]  $C_{41}H_{46}N_4O_3$  (642.85). Source: BO YE SHAN CHENG *Melodinus tenuicaudatus*. Ref: 553.

**20934 Tenuiflorin A**

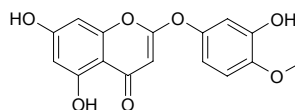
5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenoxy)-6-methoxychromone  $C_{17}H_{14}O_8$  (346.30). White-brownish crystals, mp 185~187°C. Source: XI HUA HAN XIU CAO *Mimosa tenuiflora* (leaf). Ref: 4990.

**20935 Tenuiflorin B**

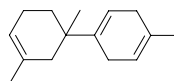
5,7-Dihydroxy-2-(4-hydroxy-3-methoxyphenoxy)-6-methoxychromone  $C_{17}H_{14}O_8$  (346.30). White-brownish crystals, mp 212~214°C. Source: XI HUA HAN XIU CAO *Mimosa tenuiflora* (leaf). Ref: 4990.

**20936 Tenuiflorin C**

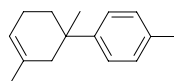
5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenoxy)chromone  $C_{16}H_{12}O_7$  (316.27). White-brownish crystals, mp 283~285°C. Source: XI HUA HAN XIU CAO *Mimosa tenuiflora* (leaf). Ref: 4990.

**20937 Tenuifolene**

4-(1,3-Dimethylcyclohexenyl)-1-methyl-1,4-cyclohexadiene  $C_{15}H_{20}$  (200.33). Colorless oil. Source: XIAO HUA SHA ZHEN *Osyris tenuifolia* (essential oil). Ref: 3821.

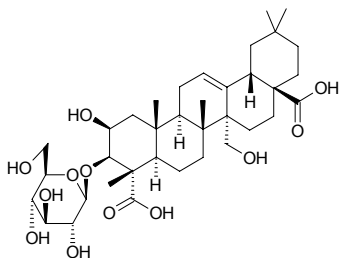
**20938 ar-Tenuifolene**

4-(1,3-Dimethylcyclohexenyl)-1-methylbenzene  $C_{15}H_{22}$  (202.34). Colorless oil. Source: XIAO HUA SHA ZHEN *Osyris tenuifolia* (essential oil). Ref: 3821.

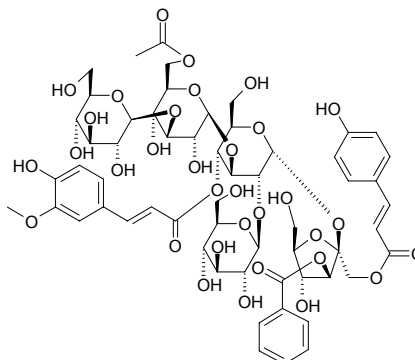


**20939 Tenuifolin**

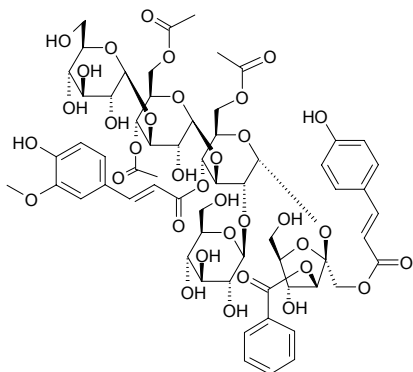
$C_{36}H_{56}O_{12}$  (680.84). mp 298–300°C. Source: YUAN ZHI *Polygala tenuifolia*.  
Ref: 2.

**20942 Tenuifoliose C**

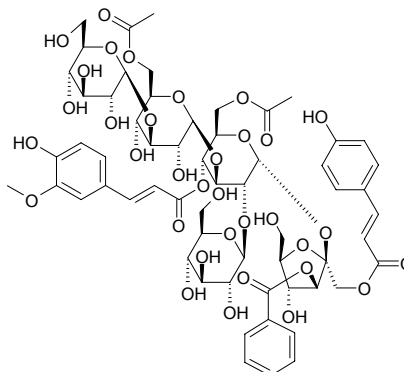
$C_{58}H_{72}O_{33}$  (1297.20).  $[\alpha]_D = -52.8^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20940 Tenuifoliose A**

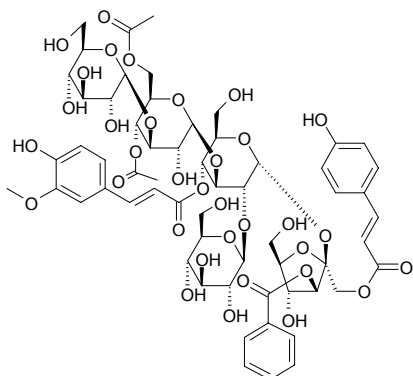
$C_{62}H_{76}O_{35}$  (1381.28).  $[\alpha]_D = -32.8^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20943 Tenuifoliose D**

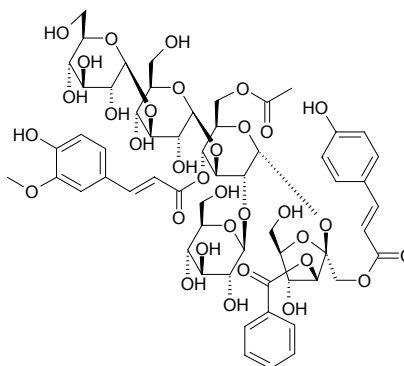
$C_{60}H_{74}O_{34}$  (1339.24). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20941 Tenuifoliose B**

$C_{60}H_{74}O_{34}$  (1339.24). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

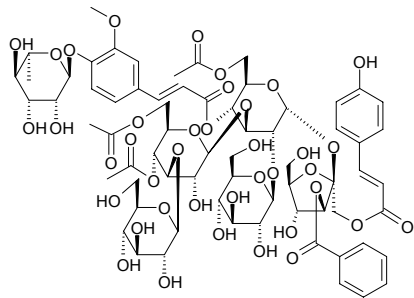
**20944 Tenuifoliose E**

$C_{58}H_{72}O_{33}$  (1297.20). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

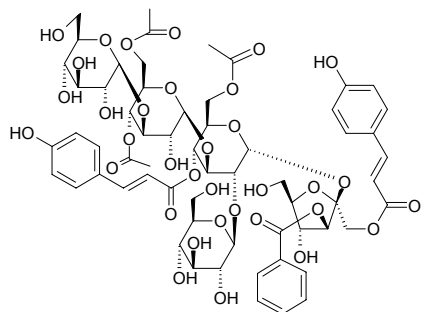


**20945 Tenuifoliose F**

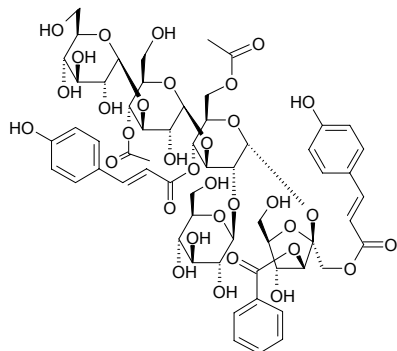
$C_{68}H_{86}O_{39}$  (1527.42). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**20946 Tenuifoliose H**

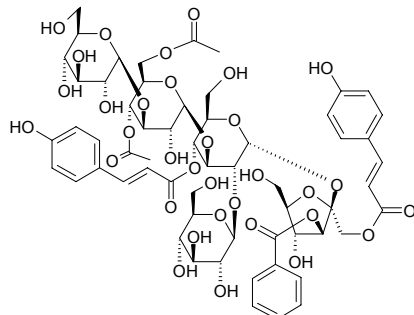
$C_{61}H_{74}O_{34}$  (1351.25).  $[\alpha]_D = -26.3^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20947 Tenuifoliose I**

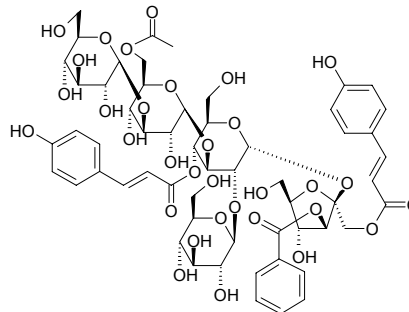
$C_{59}H_{72}O_{33}$  (1309.21).  $[\alpha]_D = -9.1^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20948 Tenuifoliose J**

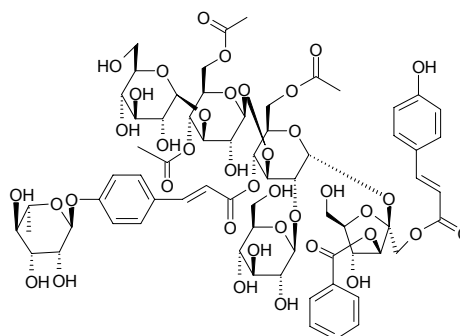
$C_{59}H_{72}O_{33}$  (1309.21).  $[\alpha]_D = -35.9^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20949 Tenuifoliose K**

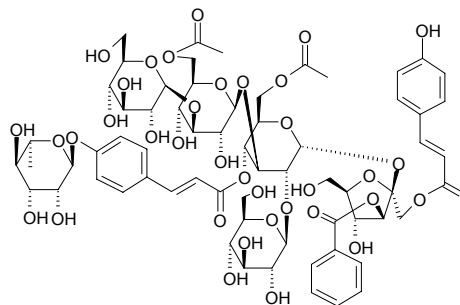
$C_{57}H_{70}O_{32}$  (1267.17).  $[\alpha]_D = -3.2^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20950 Tenuifoliose L**

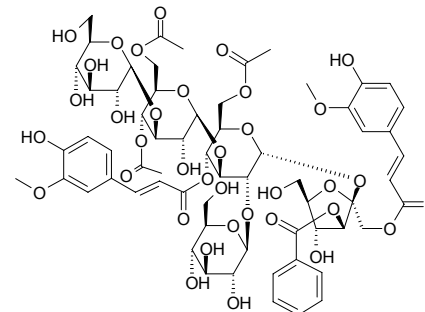
$C_{67}H_{84}O_{39}$  (1513.39).  $[\alpha]_D = -59.2^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 1521, 2184.

**20951 Tenuifoliose M**

$C_{65}H_{82}O_{37}$  (1455.36).  $[\alpha]_D = -29.2^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 1521, 2184.

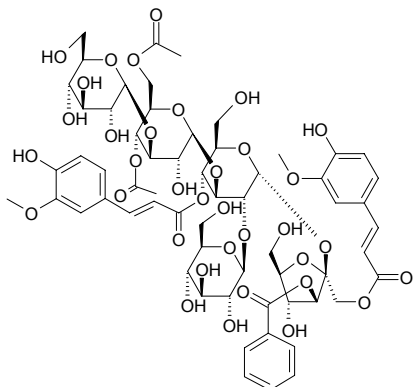
**20952 Tenuifoliose N**

$C_{63}H_{78}O_{36}$  (1411.30).  $[\alpha]_D = -26.6^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

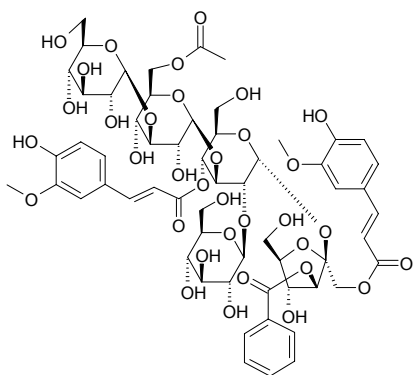


**20953 Tenuifoliose O**

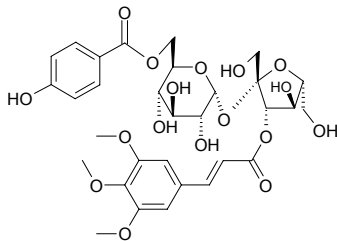
$C_{61}H_{76}O_{35}$  (1369.26).  $[\alpha]_D = -17.4^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20954 Tenuifoliose P**

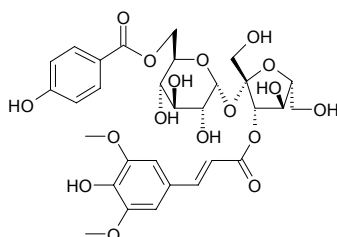
$C_{59}H_{74}O_{34}$  (1327.23).  $[\alpha]_D = -7.7^\circ$ . Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20955 Tenuifoliside A**

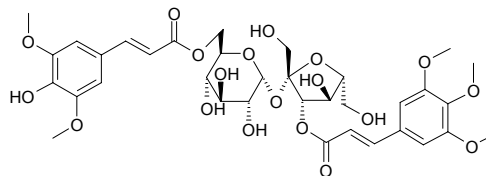
$C_{31}H_{38}O_{17}$  (682.64). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**20956 Tenuifoliside B**

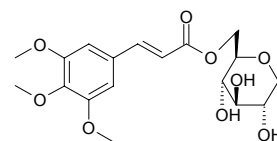
$C_{30}H_{36}O_{17}$  (668.61). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**20957 Tenuifoliside C**

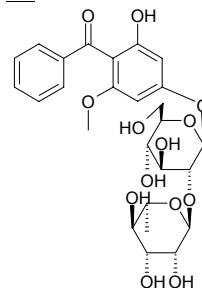
[139726-37-7]  $C_{35}H_{44}O_{19}$  (768.73). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20958 Tenuifoliside D**

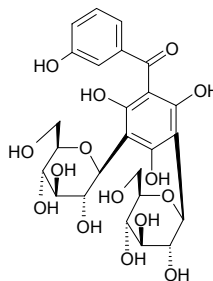
[139726-38-8]  $C_{18}H_{24}O_9$  (384.39). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20959 Tenuiphenone A**

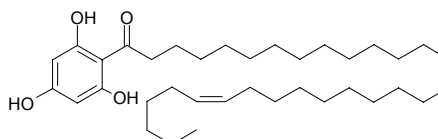
4-O-[ $\alpha$ -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranosyl]-2-hydroxyl-6-methoxybenzophenone  $C_{26}H_{32}O_{13}$  (552.54). Yellow amorphous powder,  $[\alpha]_D^{25} = +62.3^\circ$  ( $c = 0.10$ , MeOH). Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

**20960 Tenuiphenone B**

3,5-Di-C- $\beta$ -glucopyranosyl-2,4,6,3'-tetrahydroxybenzophenone  $C_{25}H_{30}O_{15}$  (570.51). Yellow amorphous powder,  $[\alpha]_D^{25} = +61.3^\circ$  ( $c = 0.11$ , MeOH). Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

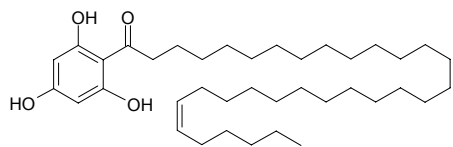
**20961 Tenuiphenone C**

2',4',6'-Trihydroxyphenyl-(24Z)-triacontene-1-one  $C_{36}H_{62}O_4$  (558.89). White solid (acetone), mp 197–200°C. Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

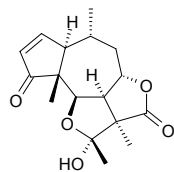


**20962 Tenuiphenone D**

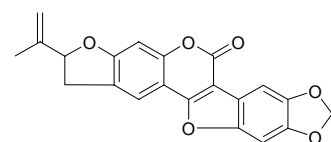
2',4',6'-Trihydroxyphenyl-(26Z)-dotriacontene-1-one C<sub>38</sub>H<sub>66</sub>O<sub>4</sub> (586.95).  
White solid (acetone), mp 197~200°C. Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

**20963 Tenulin**

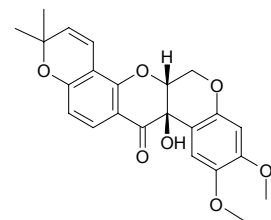
[19202-92-7] C<sub>17</sub>H<sub>22</sub>O<sub>5</sub> (306.36). mp 188~189°C, 196~198°C. Pharm: Anti-neoplastic (rat 2.5mg/(kg·d), mus 25mg/(kg·d), ip, W<sub>256</sub>, biotic prolonged rate = 166%; leukemia P<sub>388</sub>, biotic prolonged rate = 35%; EAC, InRt = 97%; KB *in vitro*, ED<sub>50</sub> = 26mg/mL); cytotoxic (Hep2 cells); toxin (field mus, mus and sheep); LD<sub>50</sub> (rat, ip) = 184.65mg/kg. Source: DUI XIN JU *Helenium autumnale*, KU WEI DUI XIN JU *Helenium amarum*, WEI MAO DUI XIN JU *Helenium puberulum*, XI YE DUI XIN JU *Helenium tenuifolium*, YA MEI DUI XIN JU *Helenium elegans*. Ref: 5, 658.

**20964 Tephcalostan**

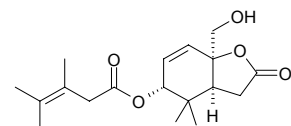
C<sub>21</sub>H<sub>14</sub>O<sub>6</sub> (362.34). Colorless needles (CHCl<sub>3</sub>), mp 251~252°C, [α]<sub>D</sub><sup>25</sup> = -52° (c = 0.001, MeOH). Source: MEI LI YE HUI MAO DOU *Tephrosia calophylla* (whole herb). Ref: 4312.

**20965 (-)-Tephrosin**

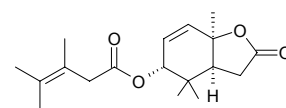
C<sub>23</sub>H<sub>22</sub>O<sub>7</sub> (410.43). mp 198°C. Pharm: Insect antifeedant. Source: GAO HUI MAO DOU *Tephrosia elata*, HUI YE GEN *Tephrosia purpurea*, YU TENG *Derris trifoliata*, ZI SUI HUAI *Amorpha fruticosa*. Ref: 6, 658, 4982.

**20966 3-Teracrylmelazolide A**

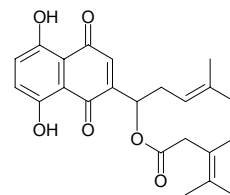
(-)-(3a*S*,5*R*,7a*R*)-4,4-Dimethyl-7a-hydroxymethyl-2-oxo-2,3,3a,4,5,7a-hexahydrobenzo[*b*]furan-5-yl 3,4-dimethyl-3-pentenoate C<sub>18</sub>H<sub>26</sub>O<sub>5</sub> (322.40). [α]<sub>D</sub> = -226° (c = 0.26, EtOH). Source: KU LIAN PI *Melia azedarach*. Ref: 1962.

**20967 3-Teracrylmelazolide B**

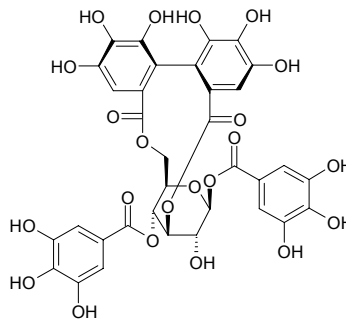
(3a*S*,5*R*,7a*R*)-4,4,7a-Trimethyl-2-oxo-2,3,3a,4,5,7a-hexahydrobenzo[*b*]furan-5-yl 3,4-dimethyl-3-pentenoate C<sub>18</sub>H<sub>26</sub>O<sub>4</sub> (306.41). Source: KU LIAN PI *Melia azedarach*. Ref: 1962.

**20968 3,4-Teracrylshikonin**

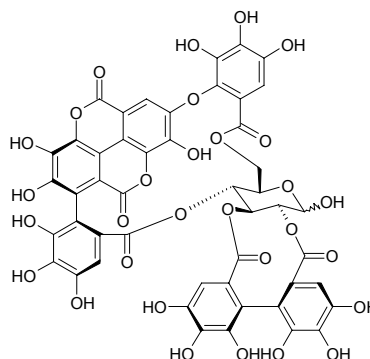
Teracrylshikonin [52438-11-6] C<sub>23</sub>H<sub>26</sub>O<sub>6</sub> (398.46). Red-purple amorphous substance, [α]<sub>600nm</sub><sup>22</sup> = -92° (ethanol). Pharm: Antibacterial (*Bacillus subtilis*, *Staphylococcus aureus*, *Sarcina gamboge*); enhances contractility of main artery (rat, caused by adrenalin); platelet aggregation inhibitor (due to collagen, IC<sub>50</sub> = 2.8 μmol/L). Source: XIN ZANG JIA ZI CAO *Arnebia euchroma*, JIA ZI CAO *Arnebia guttata*, ZI CAO *Lithospermum erythrorhizon*. Ref: 2, 900, 2193.

**20969 Tercatain**

C<sub>34</sub>H<sub>26</sub>O<sub>22</sub> (786.57). Source: AN MO LE *Phyllanthus emblica* (fruit juice). Ref: 3094.

**20970 Terchebulin**

C<sub>48</sub>H<sub>28</sub>O<sub>30</sub> (1084.74). Source: HE ZI *Terminalia chebula*. Ref: 660.

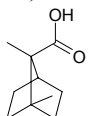


**20971 Teresantaldehyde**

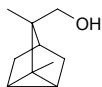
Teresantaldehyde  $C_{10}H_{14}O$  (150.22). Source: TAN XIANG *Santalum album*. Ref: 660.

**20972  $\alpha$ -Teresantallic acid**

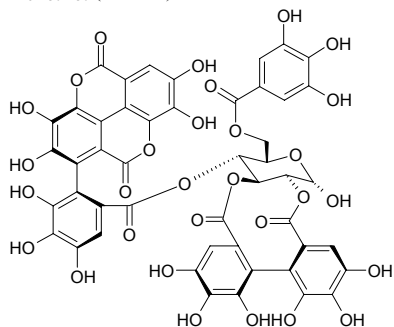
$C_{10}H_{14}O_2$  (166.22). mp 158°C. Source: TAN XIANG *Santalum album*. Ref: 6, 660, 1521.

**20973 Teresantalol**

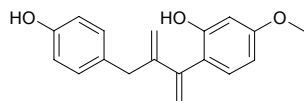
$C_{10}H_{16}O$  (152.24). Source: TAN XIANG *Santalum album*. Ref: 660.

**20974 Terflavin A**

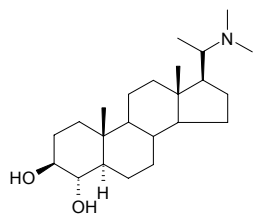
$C_{48}H_{30}O_{30}$  (1086.76). Source: HE ZI *Terminalia chebula*. Ref: 660.

**20975 Termilignan**

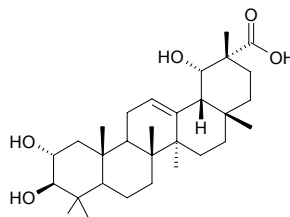
$C_{18}H_{18}O_3$  (282.34). Pharm: Anti-HIV; antimalarial; antifungal. Source: WEI MAO HE ZI *Terminalia chebula* var. *tomentella*. Ref: 2268.

**20976 Terminaline**

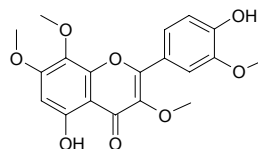
$C_{23}H_{41}NO_2$  (363.59). mp 243~244°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**20977 Terminoic acid**

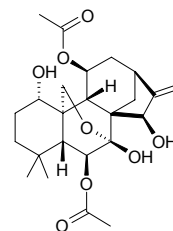
$C_{30}H_{48}O_5$  (488.71). Source: HE ZI *Terminalia chebula*. Ref: 660.

**20978 Ternatin**

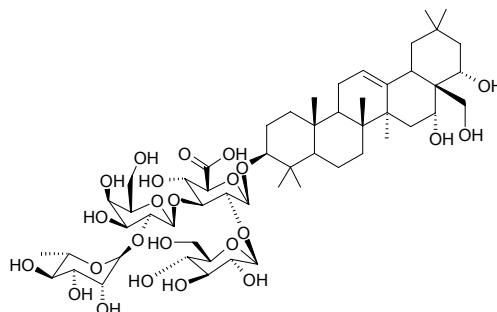
4',5-Dihydroxy-3,3',7,8-tetramethoxyflavone  $C_{19}H_{18}O_8$  (374.35). Pharm: Anti-inflammatory (inhibits thioglycolate-elicited rat peritoneal neutrophil accumulation and LPS-activated nitric oxide production in murine macrophages)<sup>[5448]</sup>. Source: GUANG JIE QIU HAI TANG *Begonia glabra*, MAO CHOU TAN *Evodia madagascariensis*, NIAN XING AI LEI JU *Egletes viscosa*, SAN CHI LA RUI A *Larrea tridentata*, *Melicope* spp. Ref: 660, 1521, 5448.

**20979 Ternifolin**

$C_{24}H_{34}O_8$  (450.53). mp 223~225°C,  $[\alpha]_D^{29} = -48.09^\circ$  ( $c = 0.815$ ,  $C_5H_5N$ ). Source: NIU WEI CAO *Isodon ternifolia*. Ref: 4067.

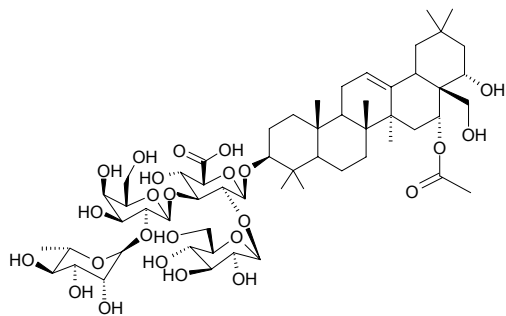
**20980 Ternstroemiaside A**

$C_{54}H_{88}O_{24}$  (1121.29). Colorless needles, mp 239~242°C,  $[\alpha]_D^{20} = -29.3^\circ$  ( $c = 0.3$ , MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.00061%fw). Ref: 4730.

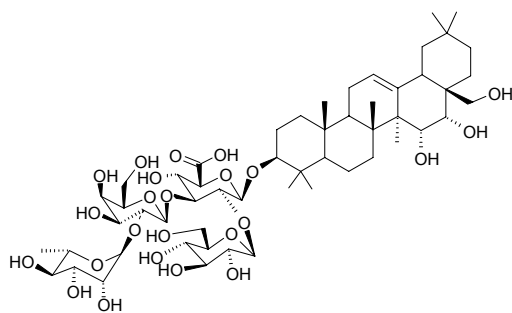


**20981 Ternstroemiaside B**

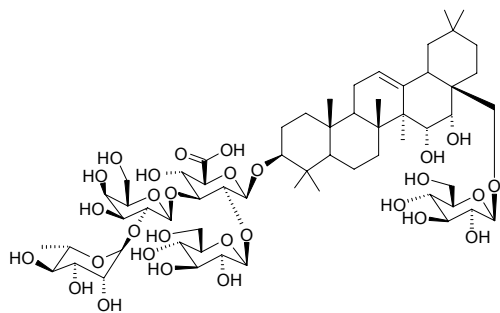
$C_{56}H_{90}O_{25}$  (1163.33). Colorless needles, mp 225–230°C,  $[\alpha]_D^{20} = -30.9^\circ$  ( $c = 0.5$ , MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.0012%fw). Ref: 4730.

**20982 Ternstroemiaside C**

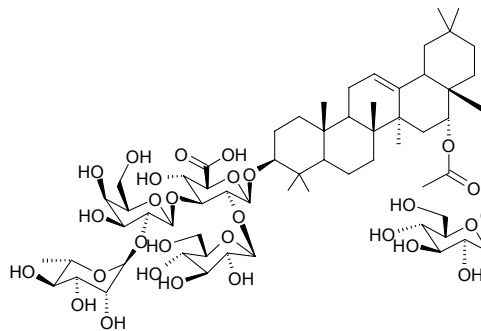
$C_{54}H_{88}O_{24}$  (1121.29). Colorless needles, mp 230–237°C,  $[\alpha]_D^{20} = -18.3^\circ$  ( $c = 0.5$ , MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.00077%fw). Ref: 4730.

**20983 Ternstroemiaside D**

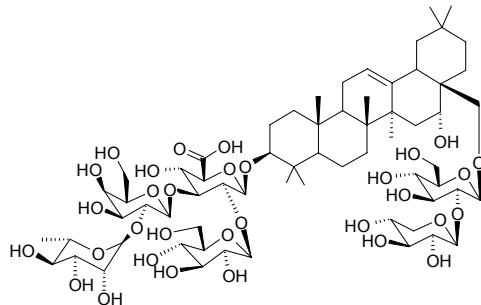
$C_{60}H_{98}O_{29}$  (1283.43). Colorless crystals, mp 231°C,  $[\alpha]_D^{20} = -32.1^\circ$  ( $c = 1.3$ , MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.0043%fw). Ref: 4730.

**20984 Ternstroemiaside E**

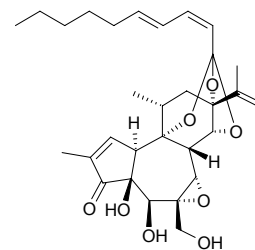
$C_{62}H_{100}O_{29}$  (1309.47). Colorless crystals, mp 228–230°C,  $[\alpha]_D^{20} = -38.2^\circ$  ( $c = 1.6$ , MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.00027%fw). Ref: 4730.

**20985 Ternstroemiaside F**

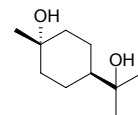
$C_{65}H_{106}O_{32}$  (1399.55). Colorless crystals, mp 216–222°C,  $[\alpha]_D^{20} = -39.0^\circ$  ( $c = 0.5$ , MeOH). Source: RI BEN HOU PI XIANG *Ternstroemia japonica* (fresh fruit: yield = 0.00093%fw). Ref: 4730.

**20986 Terpenoid EA-1**

Excoecariotoxin; Excoecaria factor A<sub>3</sub>; Excoecaria factor B<sub>3</sub> [92219-48-2]  
 $C_{30}H_{40}O_8$  (528.65). Pharm: Fish toxin. Source: HAI QI *Excoecaria agallocha*.  
Ref: 658, 1515.

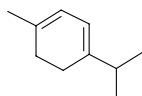
**20987 Terpin**

$C_{10}H_{20}O_2$  (172.27). *R*-hydrate, rhomboid crystals (water), mp 116–117°C, heated slowly to 100°C, sublimating; anhydride, mp 104–105°C, bp 258°C. Pharm: Antitussive (dispels phlegm, *cis*-form hydrate). Source: XUE SONG *Cedrus deodara*. Ref: 661.

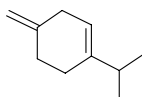


**20988  $\alpha$ -Terpinene**

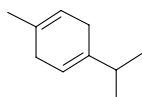
[99-86-5] C<sub>10</sub>H<sub>16</sub> (136.24). bp 173.5~174.8°C/755mmHg. **Pharm:** Anti-inflammatory (NO production inhibitor)<sup>[4415]</sup>. **Source:** DA YE XIANG RU *Mosla dianthera*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], DU QIN GEN *Cicuta virosa*, FENG XIANG SHU *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*], HU SUI ZI *Coriandrum sativum*, HUI XIANG *Foeniculum vulgare*, HUO MA REN *Cannabis sativa*, JU PI *Citrus reticulata*, NAN HE SHI *Daucus carota*, TIAN MING JING *Carpesium abrotanoides*, WU WEI ZI *Schisandra chinensis*, XIANG ZHANG *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*], YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2, 660, 4415.

**20989  $\beta$ -Terpinene**

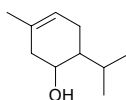
C<sub>10</sub>H<sub>16</sub> (136.24). bp 173~174°C. **Source:** HONG CHAI HU *Bupleurum scorzonerifolium*, HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

**20990  $\gamma$ -Terpinene**

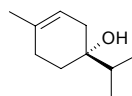
[99-85-4] C<sub>10</sub>H<sub>16</sub> (136.24). bp 183°C. **Pharm:** Antifungal (*Aspergillus niger* KCCM11239, MFC = 0.78mg/mL; *Aspergillus flavus* KCCM11453, MFC = 6.25mg/mL; *Candida albicans* KCCM11282, MFC > 6.25mg/mL; *Candida utilis* KCCM11356, MFC > 6.25mg/mL; *Cryptococcus neoformans* KCCM0564, MFC > 6.25mg/mL; *Trichosporon mucoides* KCCM50570, MFC = 3.12mg/mL; *Trichophyton rubrum* ATCC6345, MFC = 0.39mg/mL; *Blastoschizomyces capitatus* KCCM50270, MFC > 6.25mg/mL)<sup>[4079]</sup>. **Source:** HUANG HUA HAO *Artemisia annua*, JU PI *Citrus reticulata*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, QIANG HUO *Notopterygium incisum*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, CHAO XIAN DA BAI LI XIANG *Thymus magnus*, WU MAI BAI LI XIANG *Thymus quinquecostatus*. **Ref:** 2, 660, 4079.

**20991 1-Terpinen-5-ol**

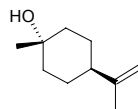
C<sub>10</sub>H<sub>18</sub>O (154.25). **Source:** HU JIAO *Piper nigrum*. **Ref:** 660.

**20992 Terpinen-4-ol**

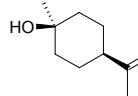
Terpinen-4-ol [562-74-3] C<sub>10</sub>H<sub>18</sub>O (154.25). **Pharm:** Antiasthmatic; antibacterial (*Bacillus thuringiensis*, *in vitro*); anti-inflammatory (modulator of cytokine network: suppresses formation of TNF- $\alpha$ , IL-1 $\beta$ , IL-8, IL-10 in LPS-activated hmn peripheral blood monocytes)<sup>[4416]</sup>. **Source:** AI YE *Artemisia argyi* (leaf: content scope = 0.013%~0.018%<sup>[5501]</sup>), HOU PO *Magnolia officinalis*, HUA JIAO *Zanthoxylum bungeanum*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], LIAN QIAO *Forsythia suspensa*, NAN HE SHI *Daucus carota*, QIANG HUO *Notopterygium incisum*, SHE XIANG CAO *Thymus vulgaris*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, HU SHENG YE BAI QIAN CENG *Melaleuca alternifolia*. **Ref:** 2, 658, 660, 4416, 5501.

**20993 cis- $\beta$ -Terpineol**

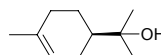
C<sub>10</sub>H<sub>18</sub>O (154.25). mp 32~33°C. **Source:** HONG CHAI HU *Bupleurum scorzonerifolium*, MI DIE XIANG *Rosmarinus officinalis*, MA HUANG *Ephedra sinica*. **Ref:** 2, 6, 660.

**20994 trans- $\beta$ -Terpineol**

C<sub>10</sub>H<sub>18</sub>O (154.25). mp 32~33°C. **Source:** HONG CHAI HU *Bupleurum scorzonerifolium*, MI DIE XIANG *Rosmarinus officinalis*, MA HUANG *Ephedra sinica*. **Ref:** 2, 6, 660.

**20995  $\alpha$ -Terpineol**

[98-55-5] C<sub>10</sub>H<sub>18</sub>O (154.25). mp (+) 36.9°C, (-) 37°C, ( $\pm$ ) 40~41°C, bp (+) 104°C/15mmHg, ( $\pm$ ) 218.8~219.4°C/752mmHg. **Pharm:** Antiasthmatic (bronchial smooth muscle relaxant, gpg); LD<sub>50</sub> (mus, orl) = 12.08mL/kg. **Source:** AI YE *Artemisia argyi* (leaf: content scope = 0.0094%~0.0105%<sup>[5501]</sup>), BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*], BAI LI XIANG *Thymus serpyllum*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], CHAI HU *Bupleurum chinense*, GANG SONG *Baeckea frutescens*, HOU PO *Magnolia officinalis*, HUA JIAO *Zanthoxylum bungeanum* (pericarp: content scope = 0.00302%~0.00604%<sup>[5501]</sup>), HUANG HUA HAO *Artemisia annua*, JIN XIAN CAO *Glechoma longituba*, JIN YIN HUA *Lonicera japonica*, JU PI *Citrus reticulata*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*, LIAN QIAO *Forsythia suspensa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, LUO HUA SHENG *Arachis hypogaea*, MA HUANG *Ephedra sinica*, MAN JING ZI *Vitex trifolia*, MI DIE XIANG *Rosmarinus officinalis*, SHAN XING REN *Prunus armeniaca* var. *ansu*, SHE XIANG CAO *Thymus vulgaris*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, XING REN *Prunus armeniaca*, YIN CHEN HAO *Artemisia capillaris*, occurs in many plants. **Ref:** 2, 658, 660, 5501.

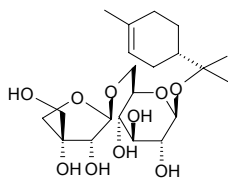




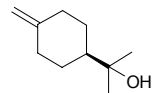
**20996 (4S)- $\alpha$ -Terpineol****O- $\beta$ -D-Apiofuranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside**

$C_{21}H_{36}O_{10}$  (448.52). Amorphous powder,  $[\alpha]_D^{22} = -65^\circ$  ( $c = 0.28$ , MeOH).

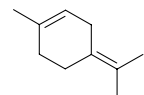
**Source:** XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). **Ref:** 4184.

**20997  $\delta$ -Terpineol**

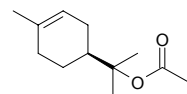
$C_{10}H_{18}O$  (154.25). **Source:** BAI DOU KOU *Amomum kravanh* [Syn. *Amomum cardamomum*]. **Ref:** 6.

**20998 Terpinolene**

*p*-Mentha-1,4(8)-diene; Isoterpinene [586-62-9]  $C_{10}H_{16}$  (136.24). bp 186°C. **Source:** DAI DAI HUA *Citrus aurantium* var. *amara*, FEI ZHOU LUO LE *Ocimum kilimandscharicum*, HUI XIANG *Foeniculum vulgare*, JU PI *Citrus reticulata*, KONG SHI CHUN *Ulva pertusa*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, QIANG HUO *Notopterygium incisum*, SHAN XING REN *Prunus armeniaca* var. *ansu*, SHENG JIANG *Zingiber officinale*, SHUI QIN *Oenanthe javanica*, SHUI SONG *Codium fragile*, XI XIN *Asarum sieboldii*, XIE CAO *Valeriana officinalis*, XING REN *Prunus armeniaca*, ZI CAI *Porphyra tenera*. **Ref:** 2, 660.

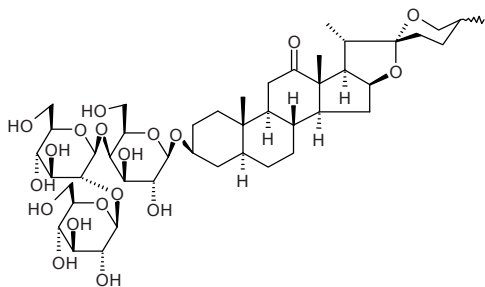
**20999 Terpinyl acetate**

Terpeneol acetate [80-26-2]  $C_{12}H_{20}O_2$  (196.29). bp (+) 140°C/40mmHg, ( $\pm$ ) 104–106°C/11mmHg. **Source:** MAN JING YE *Vitex trifolia*, HUANG HUA HAO *Artemisia annua*. **Ref:** 6, 660.

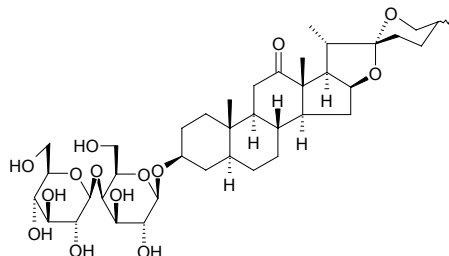
**21000 Terreside A**

Neohecogenin-3-O- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 4)- $\beta$ -D-galactopyranoside  $C_{45}H_{72}O_{19}$  (917.06). White powder, mp 273–275°C.

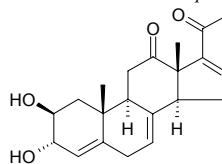
**Source:** CI JI LI *Tribulus terrestris*. **Ref:** 2128.

**21001 Terreside B**

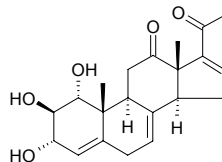
Neohecogenin-3-O- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 4)- $\beta$ -D-galactopyranoside  $C_{39}H_{62}O_{14}$  (754.92). White powder, mp 263–265°C. **Source:** CI JI LI *Tribulus terrestris*. **Ref:** 2128.

**21002 Terresterone A**

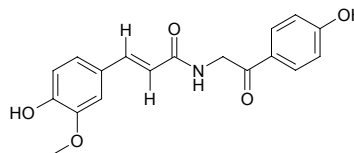
2 $\beta$ ,3 $\alpha$ -Dihydroxypregna-4,7,16-trien-12,20-dione  $C_{21}H_{26}O_4$  (342.44). Amorphous yellowish solid,  $[\alpha]_D^{20} = +502.5^\circ$  ( $c = 0.04$ ,  $CHCl_3$ ). **Source:** LU SHENG GE JUN *Thelephora terrestris*. **Ref:** 4446.

**21003 Terresterone B**

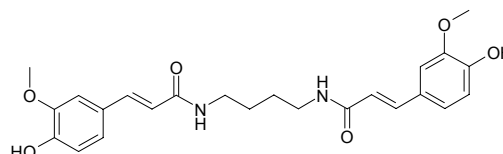
1 $\alpha$ ,2 $\beta$ ,3 $\alpha$ -Trihydroxypregna-4,7,16-trien-12,20-dione  $C_{21}H_{26}O_5$  (358.44). Amorphous colorless solid,  $[\alpha]_D^{20} = +108.6^\circ$  ( $c = 1.0$ ,  $CHCl_3$ ). **Source:** LU SHENG GE JUN *Thelephora terrestris*. **Ref:** 4446.

**21004 Terrestriamide**

$C_{18}H_{17}NO_5$  (327.34). Yellowish crystals, mp 218–220°C. **Source:** CI JI LI *Tribulus terrestris*. **Ref:** 295.

**21005 Terrestrisamide**

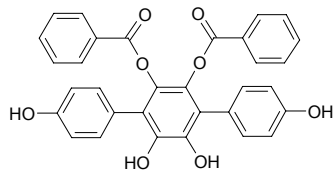
$C_{24}H_{28}N_2O_6$  (440.50). Colorless powder (MeOH), mp 143–145°C. **Source:** CI JI LI *Tribulus terrestris*. **Ref:** 1881.



**21006 Terrestrin A**

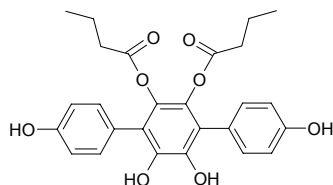
$C_{34}H_{26}O_8$  (562.58). Colorless crystals (methanol–water), mp 220–223°C.

Source: LU SHENG GE JUN *Thelephora terrestris*. Ref: 5276.

**21007 Terrestrin B**

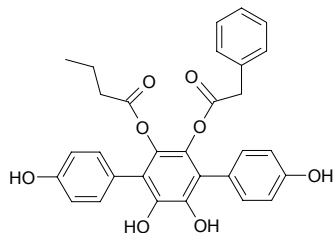
$C_{26}H_{26}O_8$  (466.49). Reddish violet solid. Source: LU SHENG GE JUN

*Thelephora terrestris*. Ref: 5276.

**21008 Terrestrin C**

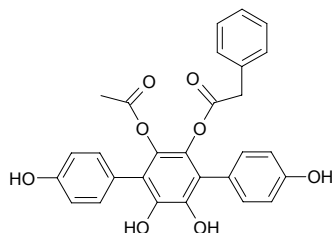
$C_{30}H_{26}O_8$  (514.54). Reddish solid. Source: LU SHENG GE JUN *Thelephora*

*terrestris*. Ref: 5276.

**21009 Terrestrin D**

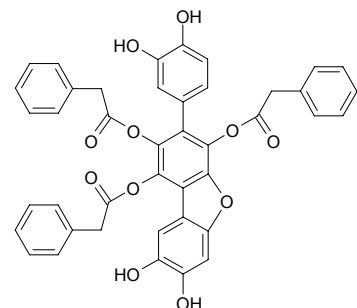
$C_{28}H_{22}O_8$  (486.48). Grayish violet solid. Source: LU SHENG GE JUN

*Thelephora terrestris*. Ref: 5276.

**21010 Terrestrin E**

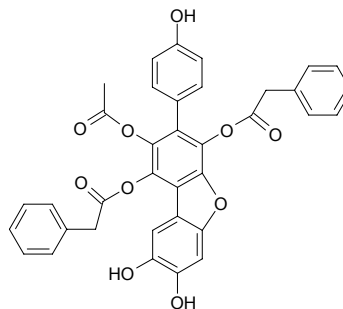
$C_{42}H_{30}O_{11}$  (710.70). Greenish gray solid. Source: LU SHENG GE JUN

*Thelephora terrestris*. Ref: 5276.

**21011 Terrestrin F**

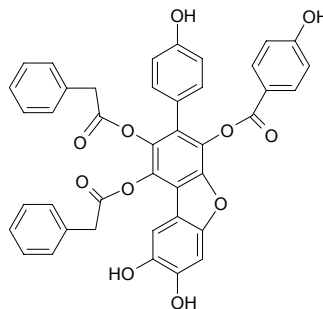
$C_{36}H_{26}O_{10}$  (618.60). Bluish solid. Source: LU SHENG GE JUN *Thelephora*

*terrestris*. Ref: 5276.

**21012 Terrestrin G**

$C_{41}H_{28}O_{11}$  (696.67). Grayish solid. Source: LU SHENG GE JUN *Thelephora*

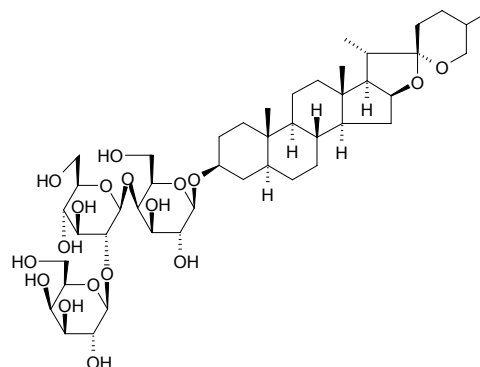
*terrestris*. Ref: 5276.

**21013 Terrestrosin A**

(3 $\beta$ ,5 $\alpha$ )-Spirostan-3-yl *O*- $\beta$ -D-galactopyranosyl-(1 $\rightarrow$ 2)-*O*- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-galactopyranoside [179799-23-6]  $C_{45}H_{74}O_{18}$  (903.08).

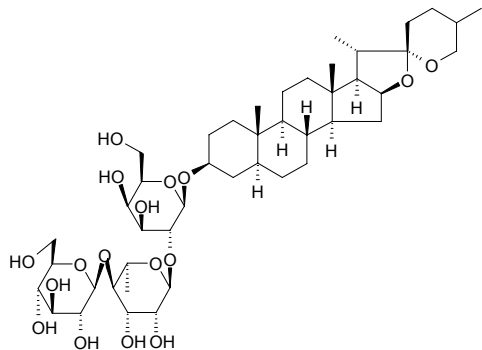
Acicular crystals (MeOH), mp 227–230°C,  $[\alpha]_D^{24} = -56.5^\circ$  ( $c = 0.65$ , pyridine).

Source: CI JI LI *Tribulus terrestris*. Ref: 706.

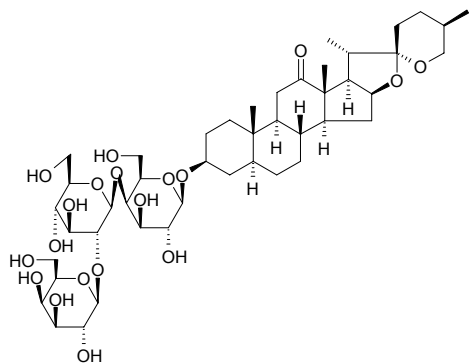


**21014 Terrestrosin B**

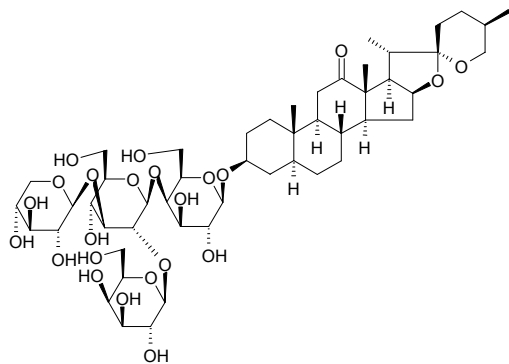
(3 $\beta$ ,5 $\alpha$ )-Spirostan-3-yl *O*-6-deoxy- $\alpha$ -*L*-mannopyranosyl-(1 $\rightarrow$ 2)-*O*-[ $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 4)]- $\beta$ -*D*-galactopyranoside [179464-22-3] C<sub>45</sub>H<sub>74</sub>O<sub>17</sub> (887.08). Acicular crystals (MeOH-CHCl<sub>3</sub>), mp 296~300°C, [ $\alpha$ ]<sub>D</sub><sup>24</sup> = -90.5° (*c* = 0.22, pyridine). Source: CI JI LI *Tribulus terrestris*. Ref: 706.

**21015 Terrestrosin C**

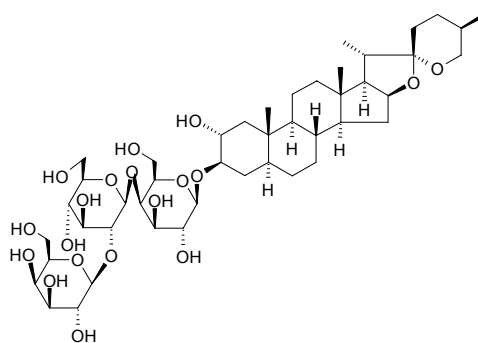
(3 $\beta$ ,5 $\alpha$ )-3-[(*O*- $\beta$ -*D*-Galactopyranosyl-(1 $\rightarrow$ 2)-*O*- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -*D*-galactopyranosyl)oxy]-spirostan-12-one [179799-24-7] C<sub>45</sub>H<sub>72</sub>O<sub>19</sub> (917.06). Microneedles (MeOH), mp 213~215°C, [ $\alpha$ ]<sub>D</sub><sup>24</sup> = -16.4° (*c* = 0.91, pyridine). Source: CI JI LI *Tribulus terrestris*. Ref: 706.

**21016 Terrestrosin D**

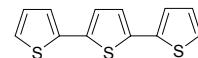
(3 $\beta$ ,5 $\alpha$ ,25*R*)-3-[(*O*- $\beta$ -*D*-Galactopyranosyl-(1 $\rightarrow$ 2)-*O*-[ $\beta$ -*D*-xylopyranosyl-(1 $\rightarrow$ 3)]-*O*- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -*D*-galactopyranosyl)oxy]-spirostan-12-one [179464-23-4] C<sub>50</sub>H<sub>80</sub>O<sub>23</sub> (1049.18). Microneedles (MeOH), mp 277~279°C, [ $\alpha$ ]<sub>D</sub><sup>24</sup> = -20.4° (*c* = 1.13, pyridine). Source: CI JI LI *Tribulus terrestris*. Ref: 706.

**21017 Terrestrosin E**

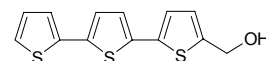
(2 $\alpha$ ,3 $\beta$ ,5 $\alpha$ )-Hydroxyspirostan-3-yl *O*- $\beta$ -*D*-galactopyranosyl-(1 $\rightarrow$ 2)-*O*- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -*D*-galactopyranoside [179799-25-8] C<sub>45</sub>H<sub>72</sub>O<sub>19</sub> (919.08). Acicular crystals (MeOH), mp 222~225°C, [ $\alpha$ ]<sub>D</sub><sup>24</sup> = -30° (*c* = 1.14, pyridine). Source: CI JI LI *Tribulus terrestris*. Ref: 706.

**21018  $\alpha$ -Terthienyl**

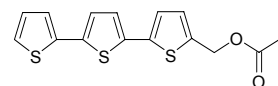
[1081-34-1] C<sub>12</sub>H<sub>8</sub>S<sub>3</sub> (248.39). mp 92~93°C. Pharm: Antibacterial; nematocide. Source: MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*], WAN SHOU JU *Tagetes erecta*. Ref: 6, 619, 658.

**21019  $\alpha$ -Terthienyl methanol**

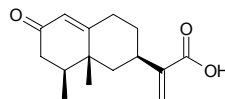
C<sub>13</sub>H<sub>10</sub>OS<sub>3</sub> (278.42). mp 150~151°C. Source: MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. Ref: 6.

**21020  $\alpha$ -Terthienyl methyl acetate**

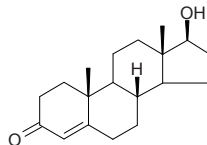
C<sub>15</sub>H<sub>12</sub>O<sub>2</sub>S<sub>3</sub> (320.45). mp 114~116°C. Source: MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*]. Ref: 6.

**21021 Tessaric acid**

C<sub>15</sub>H<sub>20</sub>O<sub>3</sub> (248.32). Colorless needles (Me<sub>2</sub>CO), mp 157~158°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -156.2° (*c* = 0.3, CHCl<sub>3</sub>). Source: LIU LENG JU *Laggera alata* (aerial parts; yield = 0.00083%dw). Ref: 4709.

**21022 Testosterone**

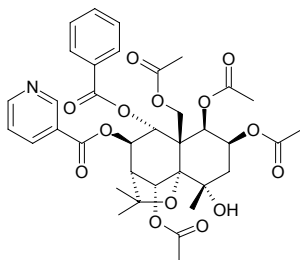
17 $\beta$ -Hydroxyandros-4-en-3-one [58-22-0] C<sub>19</sub>H<sub>28</sub>O<sub>2</sub> (288.43). mp 154.0~154.5°C. Pharm: Androgen; antibacterial (*Bacillus subtilis*, *Escherichia coli* and *Sarcina citrea*). Source: OU ZHOU CHI SONG *Pinus sylvestris*, SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 2, 658.



**21023 1 $\beta$ ,2 $\beta$ ,5 $\alpha$ ,11-Tetraacetoxy-8 $\alpha$ -benzoyl-4 $\alpha$ -hydroxy-7 $\beta$ -nicotinoyl-dihydroagarofuran**

C<sub>36</sub>H<sub>41</sub>NO<sub>14</sub> (711.73). Amorphous powder,  $[\alpha]_D^{25} = -38.4^\circ$  ( $c = 1.0$ , MeOH).

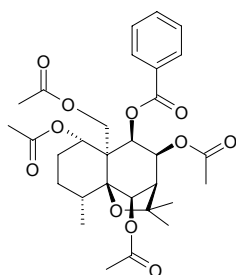
Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 758.



**21024 1 $\alpha$ ,6 $\beta$ ,8 $\beta$ ,14-Tetraacetoxy-9 $\beta$ -benzoyloxydihydro- $\beta$ -agarofuran**

C<sub>30</sub>H<sub>38</sub>O<sub>11</sub> (574.63). White amorphous powder,  $[\alpha]_D^{25} = -4.18^\circ$  ( $c = 0.19$ , MeOH).

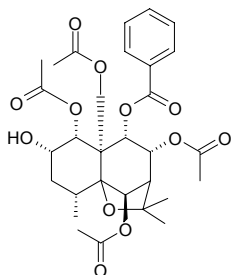
Pharm: Intestinal smooth muscle relaxant (*in vitro*, rat ileum, 1  $\mu$ g/mL, relaxant effect = (26.9 $\pm$ 3.7)%, control Papaverine, relaxant effect = (28.6 $\pm$ 7.3)%,  $p < 0.05$ ). Source: DENG YOU TENG ZI *Celastrus paniculatus*. Ref: 5002.



**21025 1 $\alpha$ ,6 $\beta$ ,8 $\alpha$ ,13-Tetraacetoxy-9 $\alpha$ -benzoyloxy-2 $\alpha$ -hydroxy- $\beta$ -dihydro-agarofuran**

C<sub>30</sub>H<sub>38</sub>O<sub>12</sub> (590.63). Amorphous white powder, mp 99~100°C,  $[\alpha]_D^{24} = -19.9^\circ$

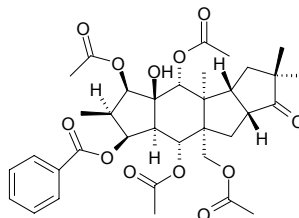
( $c = 0.66$ , CHCl<sub>3</sub>). Pharm: Insecticidal (*Mythimna separata*, KD<sub>50</sub> = 388.0  $\mu$ g/g). Source: DIAO GAN MA *Celastrus angulatus* (root cortex). Ref: 5228.



**21026 1 $\beta$ ,5 $\alpha$ ,14 $\alpha$ ,17 $\alpha$ -Tetraacetoxy-3 $\beta$ -benzoyloxy-15 $\beta$ -hydroxy-9-oxo-paraliane**

C<sub>35</sub>H<sub>44</sub>O<sub>12</sub> (656.73). Amorphous solid,  $[\alpha]_D^{25} = -31.8^\circ$  ( $c = 0.10$ , CHCl<sub>3</sub>).

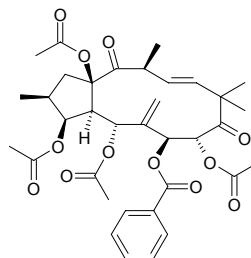
Pharm: Multidrug resistance (MDR) reversing activity (hmn MDR1 gene transfected mouse lymphoma cells, FSC: forward scatter count = 558.42, DMSO control = 519.74; SSC: side scatter count = 235.41, DMSO control = 234.67; FL-1: fluorescence intensity = 25.68, DMSO control = 5.92). Source: BO TE LAN DA JI *Euphorbia portlandica* (whole herb). Ref: 4919.



**21027 3 $\beta$ ,5 $\alpha$ ,8 $\alpha$ ,15 $\beta$ -Tetraacetoxy-7 $\beta$ -benzoyloxyjatropa-6(17),11E-dien-9,14-dione**

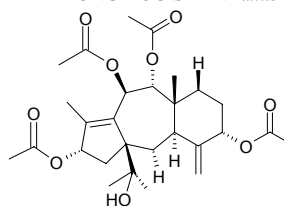
C<sub>35</sub>H<sub>42</sub>O<sub>12</sub> (654.72). Colorless crystals, mp 230~231°C,  $[\alpha]_D^{25} = +88.3^\circ$  ( $c = 0.49$ ,

CHCl<sub>3</sub>). Pharm: Cytotoxic (*in vitro*, B16 melanoma cell line, IC<sub>50</sub> > 5  $\mu$ g/mL, no significant cytotoxicity); irritant inactive (mouse ear inflammation model, ID<sub>50</sub> > 100  $\mu$ g/ear). Source: *Euphorbia turczaninowii* (whole herb). Ref: 3078.

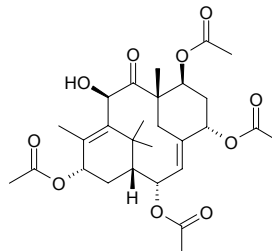


**21028 5 $\alpha$ ,9 $\alpha$ ,10 $\beta$ ,13 $\alpha$ -Tetraacetoxy-15-hydroxy-11(15→1)-abeo-taxa-4(20),11-diene**

C<sub>28</sub>H<sub>40</sub>O<sub>9</sub> (520.63). Oily compound,  $[\alpha]_D^{20} = +85^\circ$  (MeOH). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana* (bark). Ref: 4245.

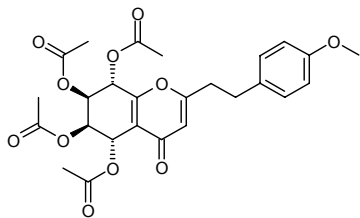


**21029 2 $\alpha$ ,5 $\alpha$ ,7 $\beta$ ,13 $\alpha$ -Tetraacetoxy-10 $\beta$ -hydroxy-2(3→20)abeotaxan-9-one**  
[260367-31-5] C<sub>28</sub>H<sub>38</sub>O<sub>10</sub> (534.61). Colorless gum,  $[\alpha]_D^{25} = -11.2^\circ$  ( $c = 0.002$ , CHCl<sub>3</sub>). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 2414.



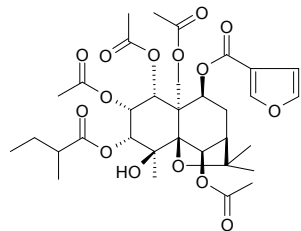
**21030 5 $\alpha$ ,6 $\beta$ ,7 $\beta$ ,8 $\alpha$ -Tetraacetoxy-2-[2-(4'-methoxyphenyl)ethyl]-5,6,7,8-tetrahydro-chromone**

AH1a C<sub>26</sub>H<sub>28</sub>O<sub>11</sub> (516.51). Amorphous crystals, mp 58~60°C (dec), [ $\alpha$ ]<sub>D</sub> = -14.3°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



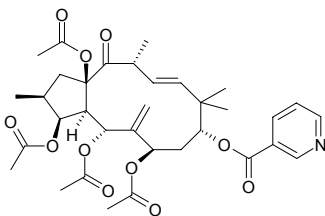
**21031 1 $\alpha$ ,2 $\alpha$ ,6 $\beta$ ,15-Tetraacetoxy-3 $\alpha$ -( $\alpha$ -methyl)-butanoyl-4 $\beta$ -hydroxy-9 $\beta$ -( $\beta$ -)furoxyloxy- $\beta$ -dihydroagarofuran**

C<sub>33</sub>H<sub>44</sub>O<sub>15</sub> (680.71). Colorless gum, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +26° (c = 1.10, CHCl<sub>3</sub>). Pharm: Cytotoxic (*in vitro*, Bel7402 liver carcinoma, IC<sub>50</sub> = 50.69 $\mu$ g/mL, control Etoposide, IC<sub>50</sub> = 7.00 $\mu$ g/mL). Source: *Euonymus nanoides* (seed). Ref: 4962.



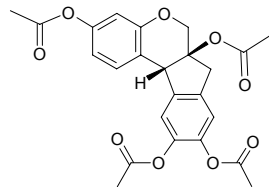
**21032 3,5,7,15-Tetraacetoxy-9-nicotinoyloxy-14-oxojatropha-6(17),11-diene**

C<sub>34</sub>H<sub>43</sub>NO<sub>11</sub> (641.72). Source: BO AI DA JI *Euphorbia peplus*. Ref: 2309.



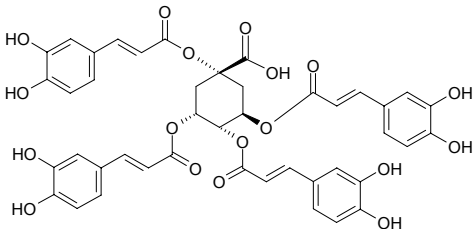
**21033 Tetraacetylbrazililn**

C<sub>24</sub>H<sub>22</sub>O<sub>9</sub> (454.44). mp 155~157°C. [ $\alpha$ ]<sub>D</sub><sup>23</sup> = +64.0° (c = 1.08, CHCl<sub>3</sub>). Source: SU MU *Caesalpinia sappan*. Ref: 508.



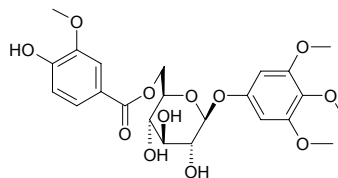
**21034 1,3,4,5-Tetracaffeoylquinic acid**

C<sub>43</sub>H<sub>36</sub>O<sub>18</sub> (840.75). Pharm: Antibacterial (*Bacillus subtilis*, *Escherichia coli* and *Sarcina citrea*). Source: family Asteraceae spp. Ref: 658.



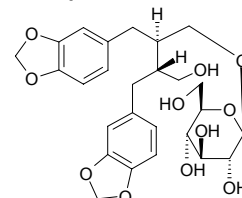
**21035 Tetracentronside A**

3,4,5-Trimethoxyphenyl-O-6'-O-vanilloyl- $\beta$ -D-glucopyranoside C<sub>23</sub>H<sub>28</sub>O<sub>12</sub> (496.47). White acicular crystals, mp 125~126°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -43.6° (c = 0.234, MeOH). Source: SHUI QING SHU *Tetracentron sinense*. Ref: 770.



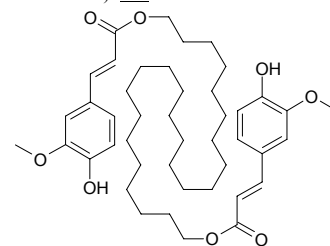
**21036 Tetracentronside B**

(8*R*,8'*R*) 9- $\beta$ -D-Glucopyranosyl dihydrocubebin C<sub>26</sub>H<sub>32</sub>O<sub>11</sub> (520.54). White acicular crystals, mp 156~157°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -12.1° (c = 0.28, MeOH). Source: SHUI QING SHU *Tetracentron sinense*. Ref: 770.



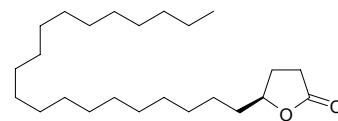
**21037 1,24-Tetracosanediol diferulate**

C<sub>44</sub>H<sub>66</sub>O<sub>8</sub> (723.01). Pharm: Cytotoxic inactive (*in vitro*, LNCaP, IC<sub>50</sub> > 100 $\mu$ mol/L). Source: LANG DANG ZI *Hyoscyamus niger* (seed; yield = 0.0002%dw). Ref: 4607.



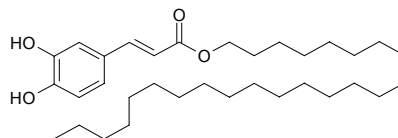
**21038 Tetracosan-4-olide**

C<sub>24</sub>H<sub>46</sub>O<sub>2</sub> (366.63). White powder, mp 68°C (Hexane:EtOAc = 9:1). Pharm: Phytotoxin inactive (doesn't inhibit radicle growth of *Amaranthus hypochondriacus* and *Echinochloa crusgalli*); CaM interactor inactive. Source: FU CHUI FE LAO JU *Flourensia cernua*. Ref: 3433.



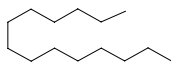
**21039 Tetracosyl caffeate**

C<sub>33</sub>H<sub>56</sub>O<sub>4</sub> (516.81). Brown grained crystals (EtOAc), mp 93.2~94.7°C. Source: XIA CAO *Gypsophila oldhamiana* (root), ZI CAO *Lithospermum erythrorhizon*. Ref: 2193, 4877.

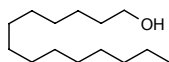


**21040 Tetradecane**

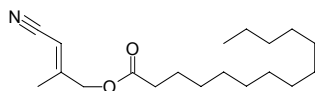
[629-59-4] C<sub>14</sub>H<sub>30</sub> (198.40). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

**21041 1-Tetradecanol**

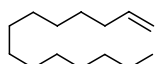
Myristic alcohol [112-72-1] C<sub>14</sub>H<sub>30</sub>O (214.39). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DANG GUI *Angelica sinensis*. Ref: 2.

**21042 3-O-Tetradecanoyl-1-cyano-2-methyl-1-propene**

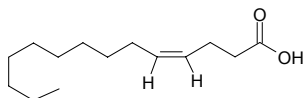
3-Methyl-4-tetradecanoyloxy-2-butenitrile C<sub>19</sub>H<sub>33</sub>NO<sub>2</sub> (307.48). White solid, mp 49~51°C. Source: LUAN SHU *Koelreuteria paniculata*. Ref: 849.

**21043 1-Tetradecene**

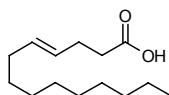
[1120-36-1] C<sub>14</sub>H<sub>28</sub> (196.38). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. Ref: 2.

**21044 cis-4-Tetradecenoic acid**

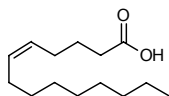
C<sub>14</sub>H<sub>26</sub>O<sub>2</sub> (226.36). mp 18.0~18.5°C, bp 185~188°C/13mmHg. Source: ZHEN CAI *Litsea pungens*. Ref: 6.

**21045 Tetradecenoic acid A**

Tsuzuic acid C<sub>14</sub>H<sub>26</sub>O<sub>2</sub> (226.36). Source: BING LANG *Areca catechu*, SAN ZUAN FENG *Lindera obtusiloba* (seed oil). Ref: 2, 660.

**21046 Tetradecenoic acid B**

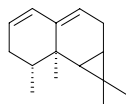
Physeteric acid; 5-Tetradecenoic acid [5684-70-8] C<sub>14</sub>H<sub>26</sub>O<sub>2</sub> (226.36). mp 20°C, bp 192~197°C/15mmHg, d<sub>4</sub><sup>15</sup> = 0.908, n<sub>D</sub><sup>15</sup> = 1.4571. Source: BING LANG *Areca catechu*, MO XIANG JING *Physeter catodon*, XI XIAO LUO ZAO *Euglena gracilis*. Ref: 2, 1521.

**21047 Tetradec-8,10,12-triyn-6-ene-3-one**

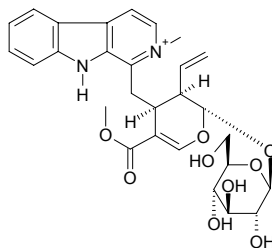
C<sub>14</sub>H<sub>14</sub>O (198.27). Source: AI YE *Artemisia argyi*. Ref: 6.

**21048 1,2,9,10-Tetrahydroaristolane**

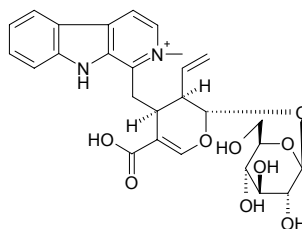
C<sub>15</sub>H<sub>22</sub> (202.34). Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**21049 3,4,5,6-Tetrahydrodolicchantoside**

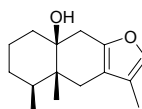
C<sub>28</sub>H<sub>33</sub>N<sub>2</sub>O<sub>9</sub><sup>+</sup> (541.58). Brownish-yellow amorphous powder. Source: *Strychnos meliodora*. Ref: 2345.

**21050 3,4,5,6-Tetrahydropalicoside**

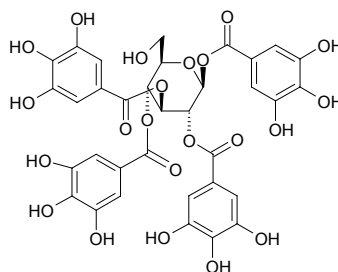
C<sub>27</sub>H<sub>31</sub>N<sub>2</sub>O<sub>9</sub><sup>+</sup> (527.56). Brownish-yellow amorphous powder. Source: *Strychnos meliodora*, *Strychnos vanprukii* (stem). Ref: 2345, 3471.

**21051 Tetradyamol**

C<sub>15</sub>H<sub>22</sub>O<sub>2</sub> (234.34). Pharm: Hepatotoxin; LD<sub>50</sub> (mus, orl) = 250mg/kg. Source: GUANG SI SHI JU *Tetradymia glabrata*. Ref: 658.

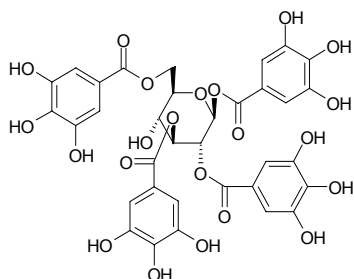
**21052 1,2,3,4-Tetragalloyl-α-D-glucose**

C<sub>34</sub>H<sub>28</sub>O<sub>22</sub> (788.59). Pharm: Antibacterial (*Staphylococcus aureus* and *Proteus vulgaris*). Source: BAN YE PING PENG CAO *Nuphar variegatum*. Ref: 658.

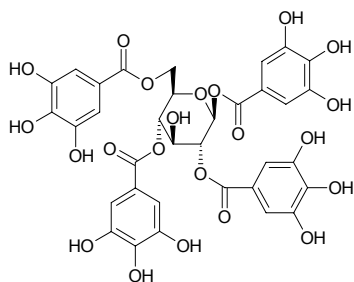


**21053 1,2,3,6-Tetra-O-galloyl- $\beta$ -D-glucose**

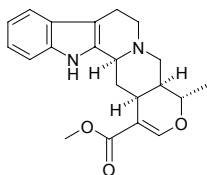
[79886-50-3]  $C_{34}H_{28}O_{22}$  (788.59). **Pharm:** Aldose reductase inhibitor (rat, eye lens,  $1.0\mu\text{mol/L}$  InRt = 77.6%,  $IC_{50} = 0.63\mu\text{g/mL}$ ); xanthinoxidase inhibitor ( $IC_{50} = 12\mu\text{mol/L}$ ); topoisomerase II inhibitor ( $IC_{100} = 0.2\mu\text{mol/L}$ ). **Source:** AN MO LE *Phyllanthus emblica* (fruit juice)<sup>[3094]</sup>, BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0017%fw)<sup>[4695]</sup>, CHI SHAO *Paeonia lactiflora* wild, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*], YOU GAN YE *Phyllanthus emblica* (leaf and branch). **Ref:** 2, 660, 1704, 1705, 1706, 3094, 4205, 4695.

**21054 1,2,4,6-Tetra-O-galloyl- $\beta$ -D-glucose**

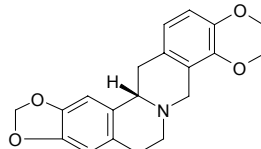
$C_{34}H_{28}O_{22}$  (788.59). **Source:** YOU GAN YE *Phyllanthus emblica* (leaf and branch). **Ref:** 4205.

**21055 Tetrahydroalstonine**

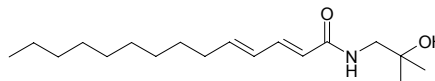
(3 $\alpha$ )-3,4,5,6-Tetrahydroalstonine  $C_{21}H_{24}N_2O_3$  (352.44). White crystals, mp 300~310°C,  $[\alpha]_D^{23.2} = -106.77^\circ$  ( $c = 0.48$ ,  $CHCl_3$ ). **Pharm:** Antibacterial (40 types of bacteria and fungi); anti-inflammatory (rat, swollen foot caused by carrageenan, 125mg/kg orl); hypoglycemic (rat, hyperglycemia induced by alloxan, 125mg/kg, orl); used in treatment of cerebral thrombosis and atherosclerosis; vasodilator (cerebral and peripheral). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CUI TU LUO FU MU *Rauwolfia vomitoria*, XIANG PI MU *Alstonia scholaris*, YANG JIAO MIAN *Alstonia mairei*, YOU XIAN YA JIAO SHU *Alstonia stricta*. **Ref:** 4, 633, 658, 660.

**21056 (-)-Tetrahydroberberine**

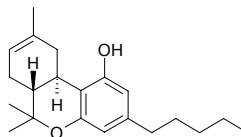
[29074-38-2]  $C_{20}H_{21}NO_4$  (339.39). **Pharm:** Anti-HIV inactive (H9 lymphocytes, control AZT,  $IC_{50} = 500\mu\text{g/mL}$ ,  $EC_{50} = 0.0317\mu\text{g/mL}$ , TI = 15800)<sup>[5364]</sup>. **Source:** JI YING SU *Argemone mexicana*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtchaninovi* f. *yanhusuo*] (rhizome: mean content of 4 origins = yield = 0.019%<sup>[5508]</sup>). **Ref:** 2, 5364, 5508.

**21057 Tetrahydrobungeanol**

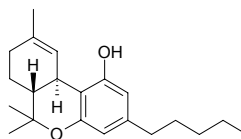
$C_{18}H_{33}NO_2$  (295.47). **Pharm:** Platelet aggregation inhibitor. **Source:** QUAN YUAN YE HUA JIAO *Zanthoxylum integrifolium*. **Ref:** 2176.

**21058  $\Delta^8$ -Tetrahydrocannabinol**

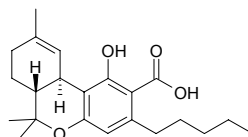
$\Delta^8$ -THC  $C_{21}H_{30}O_2$  (314.47). **Source:** MA HUA *Cannabis sativa*. **Ref:** 6.

**21059  $\Delta^9$ -Tetrahydrocannabinol**

$\Delta^9$ -THC [1972-08-3]  $C_{21}H_{30}O_2$  (314.47). bp  $D(-)$  155~157°C/0.05mmHg, 200°C/0.05mmHg. **Pharm:** Antemetic; anti-inflammatory; antiviral (HSV-1, HSV-2); hallucinogen; used in treatment of glaucoma. **Source:** HUO MA REN *Cannabis sativa* (seed oil: content = 0.024%<sup>[5508]</sup>), MA HUA *Cannabis sativa*. **Ref:** 4, 658, 5508.

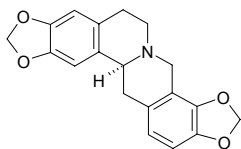
**21060  $\Delta^1$ -Tetrahydrocannabinolic acid A**

$\Delta^1$ -THC;  $\Delta^1$ -Tetrahydrocannabinolic acid  $C_{22}H_{30}O_4$  (358.48). mp 158~160°C (dec). **Pharm:** Antispasmodic (rat ileum, spasm caused by acetylcholine,  $BaCl_2$ , or histamine, rat uterus, spasm caused by neurohypophyseal hormone). **Source:** HUO MA REN *Cannabis sativa*, MA YE *Cannabis sativa*. **Ref:** 6, 658.

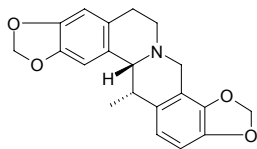


**21061 (-)-Tetrahydrocoptisine**

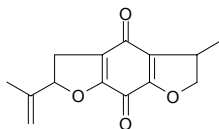
$C_{19}H_{17}NO_4$  (323.35). mp (-) 204°C, ( $\pm$ ) 222~223°C, bp ( $\pm$ ) 260°C/0.01mmHg. Source: BAI QU CAI *Chelidonium majus* (whole herb: mean content of 5 origins = 0.025%)<sup>[5508]</sup>, CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.01%)<sup>[5508]</sup>, KU DI DING *Corydalis bungeana* (whole herb with root: content scope of 4 origins = 0.007%~0.069%, mean content = 0.033%)<sup>[5508]</sup>, QUAN YE YAN HU SUO *Corydalis repens* (rhizome: content = 0.01%)<sup>[5508]</sup>, XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*] (rhizome: content = 0.03%)<sup>[5508]</sup>, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*] (rhizome: mean content of 5 origins = 0.020%)<sup>[5508]</sup>. Ref: 2, 6, 5508.

**21062 Tetrahydrocorysamine**

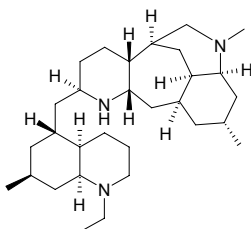
$C_{20}H_{19}NO_4$  (337.38). mp (-) 136~137°C, ( $\pm$ ) 202~203°C. Source: JU HUA HUANG LIAN *Corydalis pallida*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*], ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6.

**21063 Tetrahydrocyperaguinone**

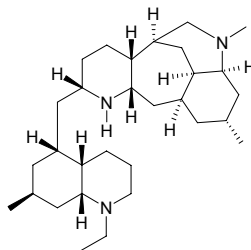
$C_{14}H_{14}O_4$  (246.27). mp 138~140°C. Source: PIAO FU CAO *Fimbristylis dichotoma*. Ref: 6.

**21064 Tetrahydrodeoxylicudine A**

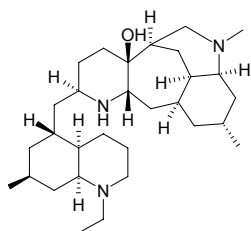
$C_{30}H_{53}N_3$  (455.78). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**21065 Tetrahydrodeoxylicudine B**

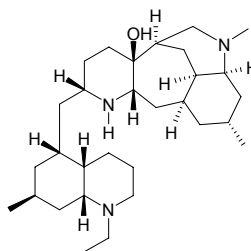
$C_{30}H_{53}N_3$  (455.78). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**21066 Tetrahydrodeoxyoxolucidine A**

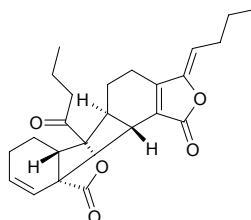
$C_{30}H_{53}N_3O$  (471.78). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**21067 Tetrahydrodeoxyoxolucidine B**

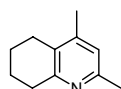
$C_{30}H_{53}N_3O$  (471.78). Source: GUANG LIANG SHI SONG *Lycopodium lucidulum*. Ref: 3927.

**21068 Z-3',8',3'a,7'a-Tetrahydro-6,3',7,7'a-diligustilide-8'-one**

$C_{24}H_{28}O_5$  (396.49). White amorphous powder, mp 110°C,  $[\alpha]_D^{25} = +50^\circ$  ( $c = 0.08$ ,  $CHCl_3$ ). Source: DANG GUI *Angelica sinensis*. Ref: 4857.

**21069 5,6,7,8-Tetrahydro-2,4-dimethylquinoline**

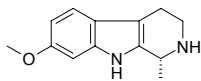
$C_{11}H_{15}N$  (161.25). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.



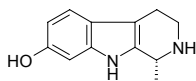


**21070 Tetrahydroharmine**

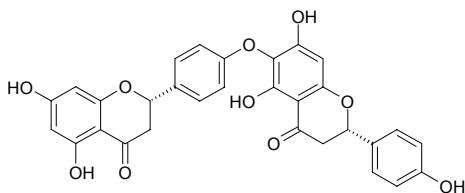
$C_{13}H_{16}N_2O$  (216.29). mp (+) 198.4~199.8°C. Source: LUO TUO PENG ZI *Peganum harmala*. Ref: 6.

**21071 Tetrahydroharmol**

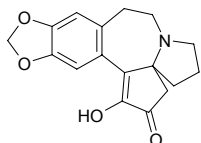
$C_{12}H_{14}N_2O$  (202.26). mp 254~255°C. Source: SHA ZAO SHU PI *Elaeagnus angustifolia*. Ref: 6.

**21072 Tetrahydrohinokiflavone**

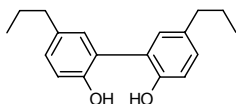
$C_{30}H_{22}O_{10}$  (542.50). Source: NAN YIN DU SU TIE SHU GUO *Cycas beddomei* (stem). Ref: 3929.

**21073 5,6,8,9-Tetrahydro-1-hydro-4H-cyclopenta[a]-[1,3]dioxolo[4,5-h]pyrrolo[2,1-b][3]benzaepin-2(3H)-one**

$C_{17}H_{17}NO_4$  (299.33). Brownish powder,  $[\alpha]_D^{28} = +52^\circ$  ( $c = 0.03$ , MeOH). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (heartwood: yield = 0.00019%dw). Ref: 4759.

**21074 Tetrahydromagnolol**

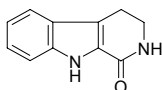
$C_{18}H_{22}O_2$  (270.37). Source: HOU PO *Magnolia officinalis*, AO YE HOU PO *Magnolia biloba*. Ref: 2, 660.

**21075 5,6,7,8-Tetrahydro-4-methylquinoline**

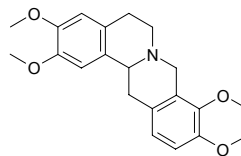
$C_{10}H_{13}N$  (147.22). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

**21076 1,2,3,4-Tetrahydro-1-oxo-β-carboline**

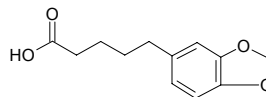
1-Oxo-1,2,3,4-tetrahydro-β-carboline  $C_{11}H_{10}N_2O$  (186.22). White acicular crystals, mp 168~170°C; white crystals, mp 168~167°C. Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 9, 347, 877.

**21077 Tetrahydropalmatine**

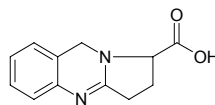
Caseanine; Corydalis; Hyndarine; Rotundine [2934-97-6]  $C_{21}H_{25}NO_4$  (355.44). mp (+) 143°C, (-) 141~142°C, (±) 148°C. Pharm: Analgesic (mus, hot plate method, ip, 15~20mg/kg); hypnotic (potentiates hypnotic effect of cyclobarital); antiarrhythmic (selective, arrhythmia induced by  $CHCl_3$ ,  $BaCl_2$ ,  $CHCl_3$ -adrenalin, Strophanthin G, no action for arrhythmia induced by aconitine); antispasmodic (rat *in vitro*, relaxes uterus, induced by KCl or pitocin); calcium antagonist (uterine smooth muscle);  $LD_{50}$  (mus, iv) = 151~158mg/kg. Source: CHI BAN YAN HU SUO *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (rhizome: content = 0.03%<sup>[5508]</sup>), JIN BU HUAN *Stephania sinica*, JU HUA HUANG LIAN *Corydalis pallida*, TU YE HUANG PI SHU *Phellodendron chinense* var. *glabriusculum*, XIA TIAN WU *Corydalis decumbens* [Syn. *Corydalis amabilis*] (rhizome: content = 0.18%<sup>[5508]</sup>), XIAO HUA HUANG JIN *Corydalis racemosa*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtshchaninovii* f. *yanhusuo*] (rhizome: mean content of 22 origins = 0.066%<sup>[5508]</sup>; 0.042%~0.130%<sup>[5501]</sup>). Ref: 4, 6, 660, 5501, 5507, 5508.

**21078 Tetrahydropiperic acid**

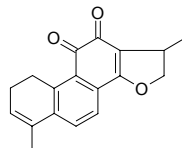
Tetrahydropiperinic acid  $C_{12}H_{14}O_4$  (222.24). Source: BI BA *Piper longum*. Ref: 6.

**21079 1,2,3,9-Tetrahydropyrrolo(2,1-b)quinazolin-1-carboxylic acid**

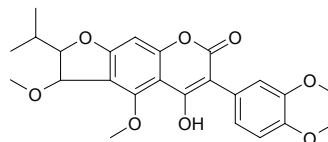
$C_{12}H_{12}N_2O_2$  (216.24). Colorless needles (MeOH), mp 218 °C (dec),  $[\alpha]_D^{18} = -217^\circ$  ( $c = 0.01$ , MeOH). Source: LIU CHUAN YU *Linaria vulgaris*. Ref: 4237.

**21080 1,2,15,16-Tetrahydrotanshinone I**

1,2,15,16-Tetrahydrotanshinone I [126979-84-8]  $C_{18}H_{16}O_3$  (280.33). Violet-red columnar crystals (methanol), mp 140~142°C. Pharm: Cytotoxic ( $P_{388}$ ). Source: BAI HUA DAN SHEN *Salvia miltiorrhiza* f. *alba*. Ref: 185.

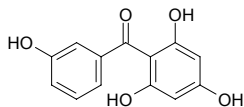
**21081 1'',2'',3'',4''-TetrahydrothoningineC**

$C_{24}H_{26}O_8$  (442.47). Colorless oil. Source: *Millettia thonningii*. Ref: 2326.

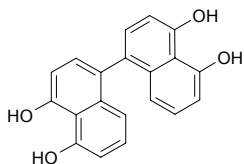


**21082 2,4,6,3'-Tetrahydroxybenzophenone**

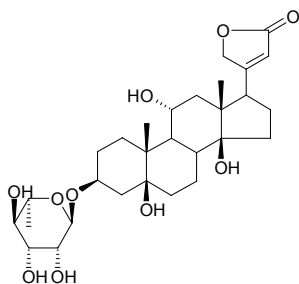
$C_{13}H_{10}O_5$  (246.22). **Pharm:** Cytotoxic (BST,  $LD_{50} > 100 \mu\text{mol/L}$ ; control Berberine,  $LD_{50} = 67 \mu\text{mol/L}$ ); antioxidant (DPPH radical scavenger,  $IC_{50} = 66.3 \mu\text{mol/L}$ ; control Catechin,  $IC_{50} = 2.53 \mu\text{mol/L}$ ). **Source:** SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.00011%dw). **Ref:** 4708.

**21083 4,5,4',5'-Tetrahydroxy-1:1'-binaphthyl**

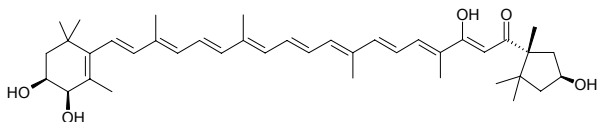
$C_{20}H_{14}O_4$  (318.33). **Pharm:** Antioxidant (DPPH scavenger,  $IC_{50} = 18.2 \mu\text{mol/L}$ , control Ascorbic acid,  $IC_{50} = 16.5 \mu\text{mol/L}$ ). **Source:** AN ZONG TAN TUAN *JUN Hypoxylon fuscum*. **Ref:** 3771.

**21084 3β,5β,11α,14β-Tetrahydroxy-5β-card-20(22)enolide-3α-L-rhamnoside**

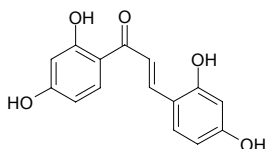
$C_{29}H_{44}O_{10}$  (552.67). **Source:** LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. **Ref:** 6.

**21085 3,4,3',8'-Tetrahydroxy-β,κ-caroten-6'-one**

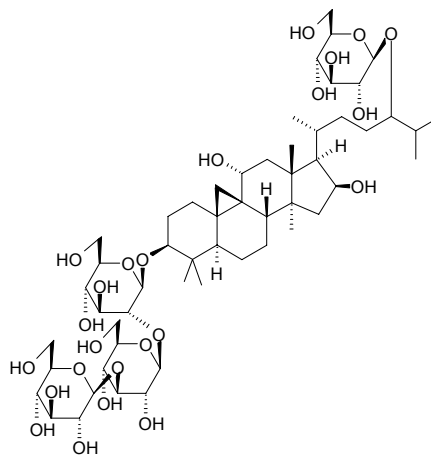
$C_{40}H_{56}O_5$  (616.89). Reddish solid. **Source:** MU LI (Oyster) *Crassostrea gigas*. **Ref:** 4515.

**21086 2,4,2',4'-Tetrahydroxychalcone**

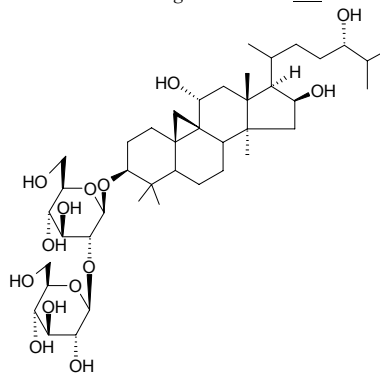
$C_{15}H_{12}O_5$  (272.26). **Pharm:** Aromatase inhibitor inactive (*in vitro*,  $IC_{50} > 40 \mu\text{mol/L}$ ; control Aminoglutethimide,  $IC_{50} = 6.4 \mu\text{mol/L}$ ). **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090.

**21087 (24S)-3β,11α,16β,24-Tetrahydroxycycloartane-3-O-[\beta-D-glucopyranosyl(1→3)-\beta-D-glucopyranosyl(1→2)-\beta-D-glucopyranosyl]-24-O-\beta-D-glucopyranoside**

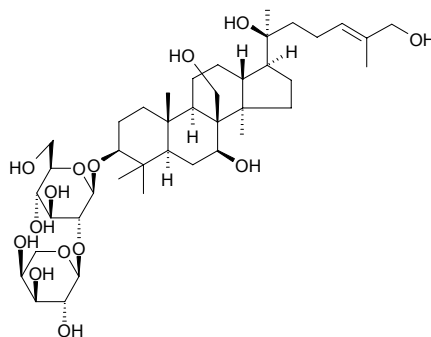
$C_{54}H_{92}O_{24}$  (1125.32). White amorphous powder,  $[\alpha]_D^{25} = -9.33^\circ$  ( $c = 0.75$ , MeOH). **Source:** XIAN MAO *Curculigo orchoides*. **Ref:** 2485.

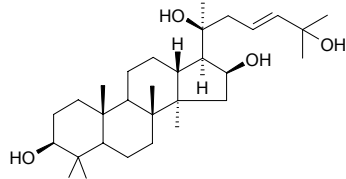
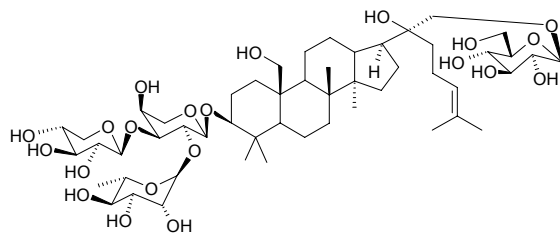
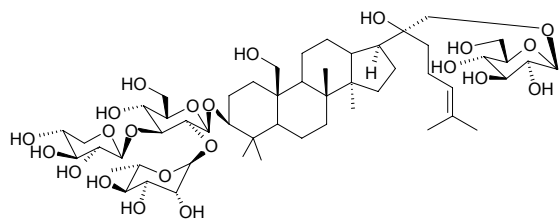
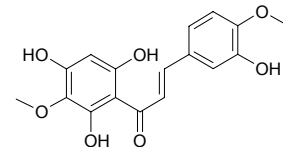
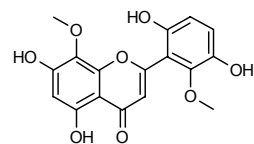
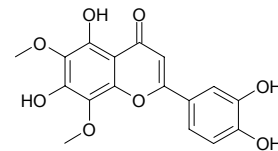
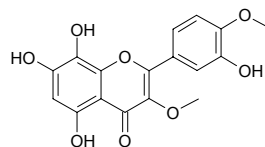
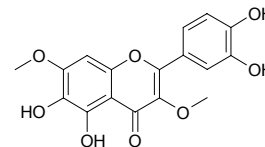
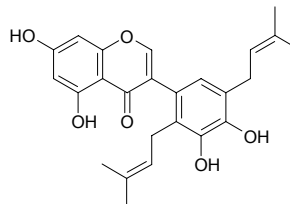
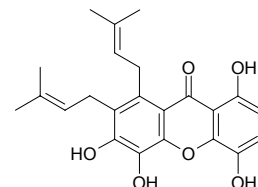
**21088 24S,3β,11α,16β,24-Tetrahydroxycycloartanol-3-O-\beta-D-glucopyranosyl-(1→2)-\beta-D-glucopyranoside**

$C_{42}H_{72}O_{14}$  (801.03). White powder (MeOH), mp 215~217°C (dec). **Source:** XIAN MAO *Curculigo orchoides*. **Ref:** 884.

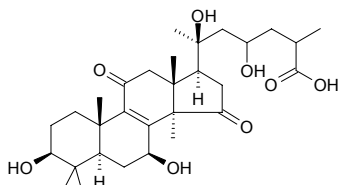
**21089 7β,18,20,26-Tetrahydroxy-(20S)-dammar-24E-en-3-O-\alpha-L-arabinopyranosyl-(1→2)-\beta-D-glucopyranoside**

$C_{41}H_{70}O_{14}$  (787.01). Microneedles (MeOH), mp 184~186°C,  $[\alpha]_D^{20} = +5.38^\circ$  ( $c = 0.56$ , MeOH). **Pharm:** Antiviral (Vero cells, HSV-1,  $TC_{50} = 577.3 \mu\text{g/mL}$ , Acyclovir,  $TC_{50} > 1000 \mu\text{g/mL}$ ). **Source:** JIA BEI MU *Bolbostemma paniculatum* (bulb). **Ref:** 4977.

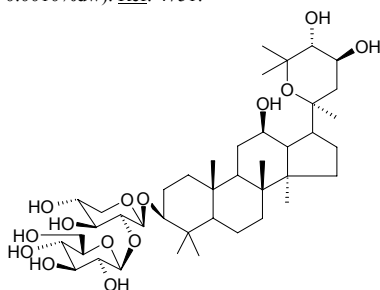


**21090 3 $\beta$ ,16 $\beta$ ,20(S),25-Tetrahydroxydammar-23-ene**C<sub>30</sub>H<sub>52</sub>O<sub>4</sub> (476.75). Colorless needles, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +13.6° (c = 1.0, CH<sub>2</sub>Cl<sub>2</sub>).Source: KU A MO YAO *Commiphora kua* (resin). Ref: 4334.**21091 3 $\beta$ ,19,20S,21-Tetrahydroxydammar-24-ene 3-O-[[ $\alpha$ -L-rhamnopyranosyl(1→2)][ $\beta$ -D-xylopyranosyl(1→3)]- $\alpha$ -L-arabinopyranosyl]-21-O- $\beta$ -D-glucopyranoside**C<sub>52</sub>H<sub>88</sub>O<sub>21</sub> (1049.27). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -12.2° (c = 1.14, MeOH).Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0036%dw). Ref: 4751.**21092 3 $\beta$ ,19,20S,21-Tetrahydroxydammar-24-ene 3-O-[[ $\alpha$ -L-rhamnopyranosyl(1→2)][ $\beta$ -D-xylopyranosyl(1→3)]- $\beta$ -D-glucopyranosyl]-21-O- $\beta$ -D-glucopyranoside**C<sub>53</sub>H<sub>90</sub>O<sub>22</sub> (1079.3). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -6.0° (c = 1.00, MeOH).Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0015%dw). Ref: 4751.**21093 3,2',4',6'-Tetrahydroxy-4,3'-dimethoxy chalcone**C<sub>17</sub>H<sub>16</sub>O<sub>7</sub> (332.31). Source: DA JIN QIAN CAO *Lysimachia christinae*. Ref: 2.**21094 5,7,2',5'-Tetrahydroxy-8,6'-dimethoxy flavone**C<sub>17</sub>H<sub>14</sub>O<sub>8</sub> (346.30). Source: CHUAN HUANG QIN *Scutellaria hypericifolia*, GAN SU HUANG QIN *Scutellaria rehderiana*, HUANG QIN *Scutellaria baicalensis*, NIAN MAO HUANG QIN *Scutellaria viscidula*. Ref: 2, 660.**21095 5,7,3',4'-Tetrahydroxy-6,8-dimethoxy flavone**[57093-50-2] C<sub>17</sub>H<sub>14</sub>O<sub>8</sub> (346.30). Yellow acicular crystals, mp 254~256°C.Source: MAO LIAN HAO *Artemisia vestita*. Ref: 474.**21096 5,7,8,3'-Tetrahydroxy-3,4'-dimethoxy flavone**C<sub>17</sub>H<sub>14</sub>O<sub>8</sub> (346.30). Source: HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.**21097 5,6,3',4'-Tetrahydroxy-3,7-dimethoxyflavone**[59171-23-2] C<sub>17</sub>H<sub>14</sub>O<sub>8</sub> (346.29). Pharm: Aldose reductase inhibitor (ox eye lens, IC<sub>50</sub> = 2.1 μmol/L, rat eye lens, IC<sub>50</sub> = 0.8 μmol/L). Source: HUANG HUA HAO *Artemisia annua*. Ref: 900.**21098 5,7,3',4'-Tetrahydroxy-2',5'-di(3-methylbut-2-enyl)isoflavone**C<sub>25</sub>H<sub>26</sub>O<sub>6</sub> (422.48). Amorphous yellow solid. Source: FEI LV BIN QIAN JIN BA *Moghania philippinensis* (root). Ref: 3500.**21099 1,4,5,6-Tetrahydroxy-7,8-di(3-methylbut-2-enyl)xanthone**C<sub>23</sub>H<sub>24</sub>O<sub>6</sub> (396.44). Yellow needles, mp 188~190°C. Pharm: Neurite outgrowth activity (NGF-mediated, PC12D cells, EC = 10 μmol/L). Source: DA YE TENG HUANG *Garcinia xanthochymus* (wood). Ref: 3473.

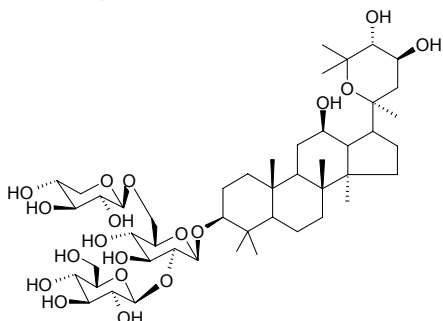
**21100** **3 $\beta$ ,7 $\beta$ ,20,23 $\xi$ -Tetrahydroxy-11,15-dioxolanosta-8-en-26-oic acid**  
 C<sub>30</sub>H<sub>46</sub>O<sub>8</sub> (534.7). Colorless amorphous solid,  $[\alpha]_D^{26} = +117.5^\circ$  ( $c = 0.211$ , CHCl<sub>3</sub>). **Source:** SHU SHE *Ganoderma applanatum* (sporocarp: yield = 0.0057%). **Ref:** 4756.



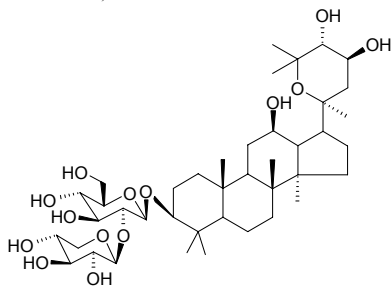
**21101** **3 $\beta$ ,12 $\beta$ ,23S,24R-Tetrahydroxy-20S,25-epoxydammarane 3-O- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 2)]- $\beta$ -D-xylopyranoside**  
 C<sub>41</sub>H<sub>70</sub>O<sub>14</sub> (787.01). Amorphous powder,  $[\alpha]_D^{20} = +17.8^\circ$  ( $c = 0.30$ , MeOH). **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0010%dw). **Ref:** 4751.



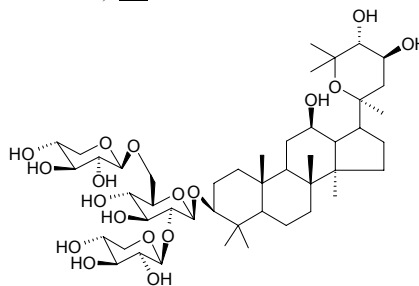
**21102** **3 $\beta$ ,12 $\beta$ ,23S,24R-Tetrahydroxy-20S,25-epoxydammarane 3-O- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 2)] $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 6)]- $\beta$ -D-glucopyranoside**  
 C<sub>47</sub>H<sub>80</sub>O<sub>19</sub> (949.15). Amorphous powder,  $[\alpha]_D^{20} = 0^\circ$  ( $c = 0.54$ , MeOH). **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0012%dw). **Ref:** 4751.



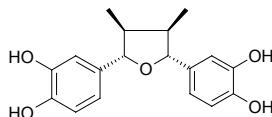
**21103** **3 $\beta$ ,12 $\beta$ ,23S,24R-Tetrahydroxy-20S,25-epoxydammarane 3-O- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 2)]- $\beta$ -D-glucopyranoside**  
 C<sub>41</sub>H<sub>70</sub>O<sub>14</sub> (787.01). Amorphous powder,  $[\alpha]_D^{20} = +18.1^\circ$  ( $c = 0.48$ , MeOH). **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0010%dw). **Ref:** 4751.



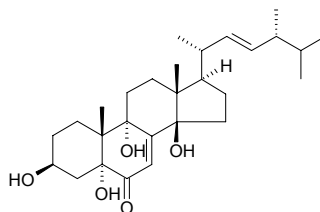
**21104** **3 $\beta$ ,12 $\beta$ ,23S,24R-Tetrahydroxy-20S,25-epoxydammarane 3-O- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 2)] $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 6)]- $\beta$ -D-glucopyranoside**  
 C<sub>46</sub>H<sub>78</sub>O<sub>18</sub> (919.12). Amorphous powder,  $[\alpha]_D^{20} = 0^\circ$  ( $c = 0.34$ , MeOH). **Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0019%dw). **Ref:** 4751.



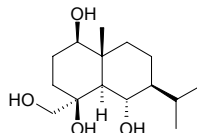
**21105** **meso-(rel-7S,8S,7'R,8'R)-3,4,3',4'-Tetrahydroxy-7,7'-epoxyignan**  
 C<sub>18</sub>H<sub>20</sub>O<sub>5</sub> (316.36). Off-white powder,  $[\alpha]_D^{25} = 0^\circ$  ( $c = 0.0012$ , MeOH). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, IC<sub>50</sub> = (7.5±2.0)μg/mL; control NDGA, IC<sub>50</sub> = (0.7±0.3)μg/mL, Vitamin C, IC<sub>50</sub> = (1.9±0.7)μg/mL, Trolox, IC<sub>50</sub> = (1.4±0.5)μg/mL); cytotoxic (XTT assay, HL-60 cells, IC<sub>50</sub> > 50.0μg/mL; control NDGA, IC<sub>50</sub> = (2.6±0.2)μg/mL, Vitamin C, IC<sub>50</sub> > 10.0μg/mL, Trolox, IC<sub>50</sub> > 10.0μg/mL). **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf). **Ref:** 3850.



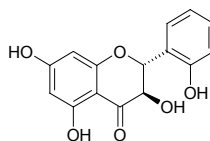
**21106** **3 $\beta$ ,5 $\alpha$ ,9 $\alpha$ ,14 $\beta$ -Tetrahydroxy-(22E)-ergosta-7,22-dien-6-one**  
 C<sub>28</sub>H<sub>44</sub>O<sub>5</sub> (460.66). Amorphous powder,  $[\alpha]_D^{18} = -73.7^\circ$  ( $c = 0.1$ , CHCl<sub>3</sub>). **Source:** SONG XUN *Tricholoma matsutake* [Syn. *Armillaria matsutake*]. **Ref:** 3526.



**21107** **1 $\beta$ ,4 $\beta$ ,6 $\alpha$ ,15-Tetrahydroxyeudesmane**  
 C<sub>15</sub>H<sub>28</sub>O<sub>4</sub> (272.39).  $[\alpha]_D^{17} = -200^\circ$  ( $c = 0.20$ , CHCl<sub>3</sub>). **Source:** YI NIAN PENG *Erigeron annuus* (aerial parts). **Ref:** 5073.

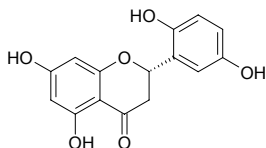


**21108** **(2R,3R)-2',3,5,7-tetrahydroxyflavanone**  
 C<sub>15</sub>H<sub>12</sub>O<sub>6</sub> (288.26). Yellowish rhomboid crystals, mp 119–120°C. **Source:** DIAN HUANG QIN *Scutellaria amoena*. **Ref:** 124.

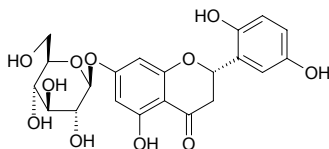


**21109 (2S)-5,7,2',5'-Tetrahydroxyflavanone**

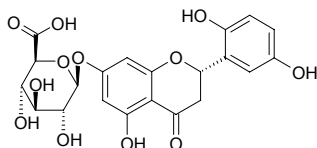
$C_{15}H_{12}O_6$  (288.26). Colorless needles (MeOH), mp 266–267°C (dec). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0053%dw). Ref: 2072.

**21110 (2S)-5,7,2',5'-Tetrahydroxy-flavanone 7-O-β-D-glucopyranoside**

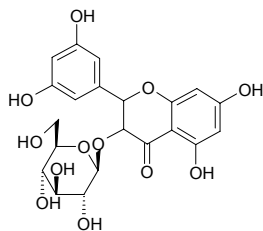
$C_{21}H_{22}O_{11}$  (450.40). Colorless needles (MeOH), mp 194–195°C (dec),  $[\alpha]_D^{25} = -151.0^\circ$  ( $c = 0.045$ , MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0009%dw). Ref: 2072.

**21111 (2S)-5,7,2',5'-Tetrahydroxyflavanone 7-O-β-D-glucuronopyranoside**

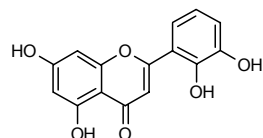
$C_{21}H_{20}O_{12}$  (464.39). Colorless needles (MeOH), mp 179–180°C (dec),  $[\alpha]_D^{25} = -129.8^\circ$  ( $c = 0.045$ , MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0049%dw). Ref: 2072.

**21112 5,7,3',5'-Tetrahydroxyflavanonol-3-O-β-D-glucoside**

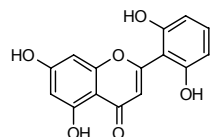
$C_{21}H_{22}O_{12}$  (466.40). mp 187–189°C. Source: SAN LENG *Sparganium stoloniferum*. Ref: 573.

**21113 5,7,2',3'-Tetrahydroxyflavone**

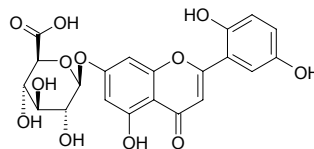
$C_{15}H_{10}O_6$  (286.24). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**21114 5,7,2',6'-Tetrahydroxyflavone**

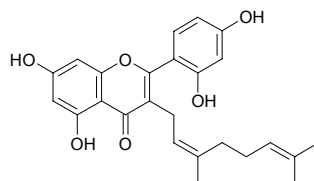
$C_{15}H_{10}O_6$  (286.24). Source: HUANG QIN *Scutellaria baicalensis*, DIAN HUANG QIN *Scutellaria amoena*. Ref: 2, 660.

**21115 5,7,2',5'-Tetrahydroxyflavone 7-O-β-D-glucuronopyranoside**

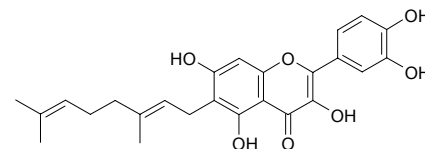
$C_{21}H_{18}O_{12}$  (462.37). Yellow needles (MeOH), mp 226–227°C (dec),  $[\alpha]_D^{25} = -69.1^\circ$  ( $c = 0.039$ , MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0011%dw). Ref: 2072.

**21116 5,7,2',4'-Tetrahydroxy-3-geranylflavone**

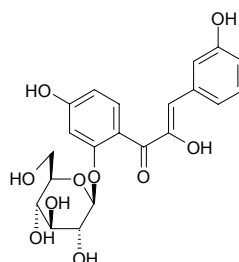
$C_{25}H_{26}O_6$  (422.48). Brown powder, mp 94–95°C. Pharm: Aromatase inhibitor (*in vitro*,  $IC_{50} = 24\mu\text{mol/L}$ ; control Aminoglutethimide,  $IC_{50} = 6.4\mu\text{mol/L}$ ). Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.

**21117 5,7,3',4'-Tetrahydroxy-6-geranylflavonol**

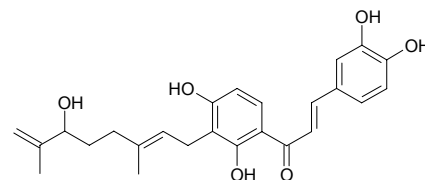
$C_{25}H_{26}O_7$  (438.48). Brown powder, mp 158–156°C. Pharm: Aromatase inhibitor inactive (*in vitro*,  $IC_{50} > 40\mu\text{mol/L}$ ; control Aminoglutethimide,  $IC_{50} = 6.4\mu\text{mol/L}$ ). Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.

**21118 1α,3,2',4'-Tetrahydroxy-2'-O-β-D-glucopyranosylchalcone**

$C_{21}H_{22}O_{10}$  (434.40). Yellow powder,  $[\alpha]_D^{20} = -89.2^\circ$  ( $c = 0.24$ , MeOH). Source: GUI ZHEN CAO *Bidens bipinnata* (aerial parts). Ref: 4566.

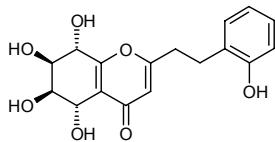
**21119 2',3,4,4'-Tetrahydroxy-3'-[6-hydroxy-3,7-dimethyl-2(E),7-octadienyl]chalcone**

$C_{25}H_{28}O_6$  (424.50). Amorphous solid. Pharm: Antifungal (*Cladosporium cladosporioides*, TLC bioautography method, 15μg/spot, control Benlate); antioxidant (DPPH scavenger, TLC bioautography method, 1μg/spot, control Vitamin E, 1μg/spot). Source: GAO GUI BO LUO MI *Artocarpus nobilis* (leaf). Ref: 3813.



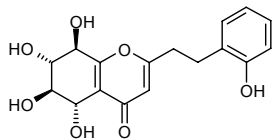
**21120 5 $\alpha$ ,6 $\beta$ ,7 $\beta$ ,8 $\alpha$ -Tetrahydroxy-2-[2-(2'-hydroxy phenyl)ethyl]-5,6,7,8-tetrahydrochromone**

AH23 C<sub>17</sub>H<sub>18</sub>O<sub>7</sub> (334.33). Colorless acicular crystals, mp 143~145°C. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



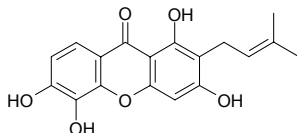
**21121 5 $\alpha$ ,6 $\beta$ ,7 $\alpha$ ,8 $\beta$ -Tetrahydroxy-2-[2-(2'-hydroxyphenyl)ethyl]-5,6,7,8-tetrahydrochromone**

AH2b C<sub>17</sub>H<sub>18</sub>O<sub>7</sub> (334.33). Colorless acicular crystals, mp 135~137°C (dec), [ $\alpha$ ]<sub>D</sub> = -40.0°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



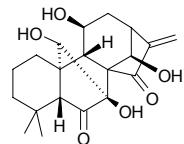
**21122 1,3,5,6-Tetrahydroxy-2-isoprenylxanthone**

C<sub>18</sub>H<sub>16</sub>O<sub>6</sub> (328.32). Pharm: Anti-hypotension (PAF-induced, ID<sub>50</sub> = (17.0±3.2)μmol/kg, control Ginkgolide B, ID<sub>50</sub> = (38.5±2.7)μmol/kg, CV-3988, ID<sub>50</sub> = (2.4±1.2)μmol/kg). Source: *Calophyllum austroindium* (stem wood). Ref: 5050.



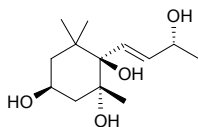
**21123 7 $\beta$ ,11 $\beta$ ,14 $\beta$ ,20-Tetrahydroxy-ent-kaur-16-en-6,15-dione**

C<sub>20</sub>H<sub>26</sub>O<sub>6</sub> (362.43). Colorless acicular crystals, mp 262~264°C. Source: ZI MAO XIANG CHA CAI *Isodon enanderianus*. Ref: 653.



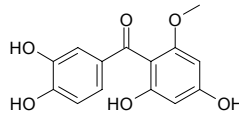
**21124 (3S,5R,6R,7E,9R)-3,5,6,9-Tetrahydroxy-7-megastigmene**

C<sub>13</sub>H<sub>24</sub>O<sub>4</sub> (244.33). Colorless oil, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +33.8° (c = 0.53, MeOH). Pharm: Phytotoxin (inhibits germination and growth of *Lactuca sativa*). Source: PA KE YE XIANG SHU *Cestrum parqui* (leaf). Ref: 3776.



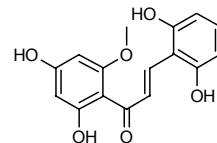
**21125 4,6,3',4'-Tetrahydroxy-2-methoxybenzophenone**

C<sub>14</sub>H<sub>12</sub>O<sub>6</sub> (276.25). Yellow oil. Pharm: Cytotoxic (BST, LD<sub>50</sub> > 100μmol/L; control Berberine, LD<sub>50</sub> = 67μmol/L); antioxidant (DPPH radical scavenger, IC<sub>50</sub> = 7.8μmol/L; control Catechin, IC<sub>50</sub> = 2.53μmol/L). Source: SHAN ZHU ZI *Garcinia multiflora* (stem; yield = 0.0002%dw). Ref: 4708.



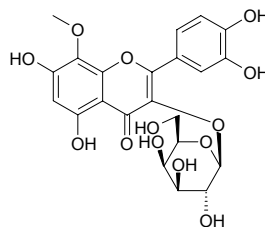
**21126 2,6,2',4'-Tetrahydroxy-6'-methoxychalcone**

C<sub>16</sub>H<sub>14</sub>O<sub>6</sub> (302.29). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.



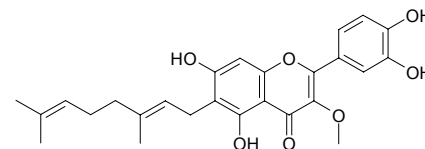
**21127 5,7,3',4'-Tetrahydroxy-8-methoxyflavonol-3-O-β-D-galactoside**

C<sub>22</sub>H<sub>22</sub>O<sub>13</sub> (494.41). Source: DI YANG QUE *Lotus corniculatus*. Ref: 6.



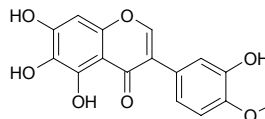
**21128 5,7,3',4'-Tetrahydroxy-3-methoxy-6-geranylflavone**

C<sub>26</sub>H<sub>28</sub>O<sub>7</sub> (452.51). Brown powder, mp 98~99°C. Pharm: Aromatase inhibitor inactive (*in vitro*, IC<sub>50</sub> > 40μmol/L; control Aminoglutethimide, IC<sub>50</sub> = 6.4μmol/L). Source: GOU SHU *Broussonetia papyrifera*. Ref: 3090.



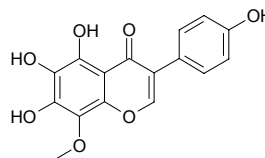
**21129 5,6,7,3'-Tetrahydroxy-4'-methoxyisoflavone**

C<sub>16</sub>H<sub>12</sub>O<sub>7</sub> (316.27). Pale yellow amorphous powder. Source: SHE GAN *Belamcanda chinensis* (rhizome). Ref: 4128.



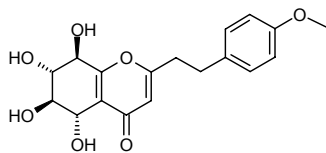
**21130 5,6,7,4'-Tetrahydroxy-8-methoxyisoflavone**

C<sub>16</sub>H<sub>12</sub>O<sub>7</sub> (316.27). Pharm: Free radical scavenger (-OH free radical)<sup>[2542]</sup>. Source: SHE GAN *Belamcanda chinensis*. Ref: 1521, 2452.

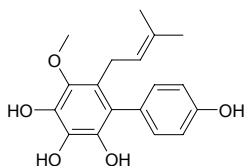


**21131 5 $\alpha$ ,6 $\beta$ ,7 $\beta$ ,8 $\alpha$ -Tetrahydroxy-2-[2-(4'-methoxyphenyl)ethyl]-5,6,7,8-tetrahydrochromone**

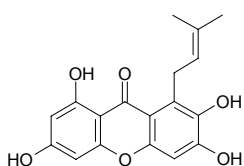
AH2a C<sub>18</sub>H<sub>20</sub>O<sub>7</sub> (348.36). Colorless acicular crystals, mp 198–199°C (dec), [ $\alpha$ ]<sub>D</sub> = -67.7°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 43.

**21132 2,3,4,4'-Tetrahydroxy-5-methoxy-6-prenyl-biphenyl**

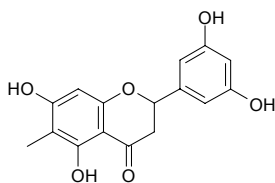
C<sub>18</sub>H<sub>20</sub>O<sub>5</sub> (316.36). Colorless viscous liquid. Pharm: Antibacterial (methicillin-resistant *Staphylococcus aureus* (MRSA), MIC = 64 μg/mL). Source: *Garcinia bancana* (twig and leaf). Ref: 4452.

**21133 1,3,6,7-Tetrahydroxy-8-(3-methyl-2-butenyl)-9H-xanthen-9-one**

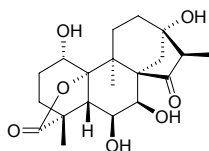
C<sub>18</sub>H<sub>16</sub>O<sub>6</sub> (328.32). Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull). Ref: 3066.

**21134 5,7,3',5'-Tetrahydroxy-6-methylflavanone**

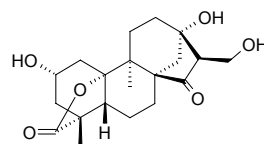
C<sub>16</sub>H<sub>14</sub>O<sub>6</sub> (302.29). Colorless powder, mp 243–245°C. Source: HUANG SHAN *Pseudotsuga sinensis*. Ref: 2229.

**21135 1 $\alpha$ ,7 $\beta$ ,10 $\alpha$ ,13 $\alpha$ -Tetrahydroxy-9 $\alpha$ -methyl-15-oxo-20-nor-kauran-19-oic acid  $\gamma$ -lactone**

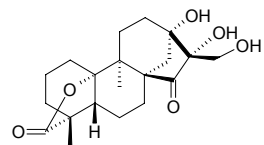
C<sub>20</sub>H<sub>28</sub>O<sub>7</sub> (380.44). Pale-yellow crystals, mp 152–160°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +20.0° (c = 0.1, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED<sub>50</sub> = 0.002 μg/mL, 0.003 μg/mL, 0.0005 μg/mL, 0.001 μg/mL, 0.004 μg/mL, 0.008 μg/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21136 2 $\alpha$ ,10 $\alpha$ ,13 $\alpha$ ,17-Tetrahydroxy-9 $\alpha$ -methyl-15-oxo-20-nor-kauran-19-oic acid (19,10)-lactone**

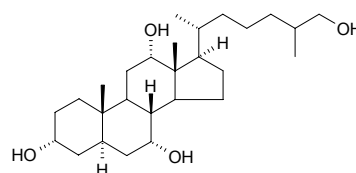
C<sub>20</sub>H<sub>28</sub>O<sub>6</sub> (364.44). White solid, mp 200°C (dec), [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +18.0° (c = 0.1, MeOH). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21137 10 $\alpha$ ,13 $\alpha$ ,16 $\alpha$ ,17-Tetrahydroxy-9 $\alpha$ -methyl-15-oxo-20-nor-kauran-19-oic acid  $\gamma$ -lactone**

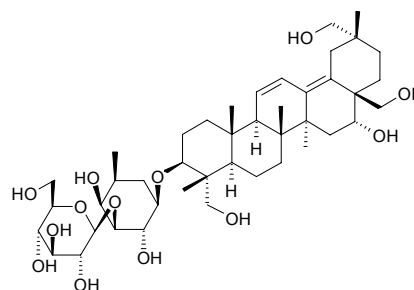
C<sub>20</sub>H<sub>28</sub>O<sub>6</sub> (364.44). Yellow crystals, mp 88–93°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +24.3° (c = 0.1, MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED<sub>50</sub> = 0.002 μg/mL, 0.003 μg/mL, 0.0005 μg/mL, 0.001 μg/mL, 0.004 μg/mL, 0.008 μg/mL, respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21138 Tetrahydroxynorbufostane**

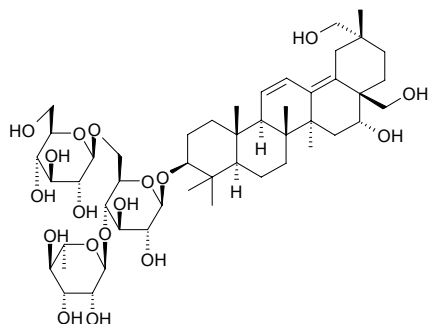
Cholestane-3,7,12,26-tetrol C<sub>27</sub>H<sub>48</sub>O<sub>4</sub> (436.68). mp 148°C. Source: CHAN CHU DAN *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.

**21139 16 $\alpha$ ,23,28,30-Tetrahydroxyolean-11,13(18)-dien-3 $\beta$ -yl- $\beta$ -D-glucopyranosyl-(1→3)- $\beta$ -D-fucopyranoside**

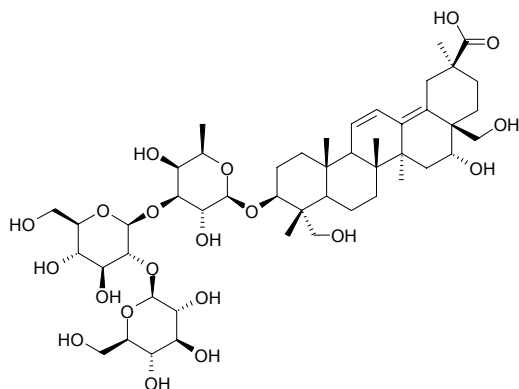
C<sub>43</sub>H<sub>70</sub>O<sub>13</sub> (795.03). Source: CHAI HU *Bupleurum chinense*, ZI HU *Bupleurum falcatum*, HEI CHAI HU *Bupleurum smithii*. Ref: 2247.



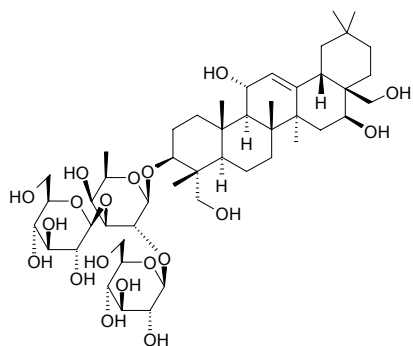
**21140** 3 $\beta$ ,16 $\alpha$ ,28,30-Tetrahydroxyolean-11,13(18)-dien-3 $\beta$ -yl- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-[ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- $\beta$ -D-glucopyranoside  
C<sub>48</sub>H<sub>78</sub>O<sub>18</sub> (943.15). Source: KUN MING CHAI HU *Bupleurum kunmingense*, DUO ZHI CHAI HU *Bupleurum polyclonum*, WEN CHUAN CHAI HU *Bupleurum wenchuanense*. Ref: 2247.



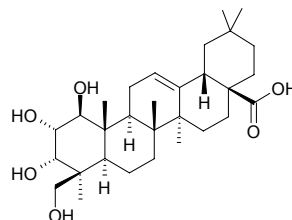
**21141** 3 $\beta$ ,16 $\alpha$ ,23,28-Tetrahydroxyolean-11,13(18)-dien-30-oic acid 3- $O$ - $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 3)- $\beta$ -D-fucopyranoside  
C<sub>48</sub>H<sub>76</sub>O<sub>20</sub> (973.13). White powder, mp 210–213°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +17.1° (*c* = 0.1, MeOH). Source: ZHI BU LUO TUO CAI HU *Bupleurum gibraltarium* (root). Ref: 3980.



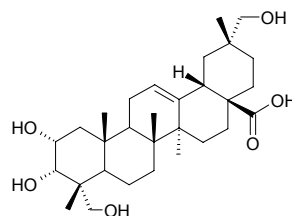
**21142** 11 $\alpha$ ,16 $\beta$ ,23,28-Tetrahydroxyolean-12-en-3 $\beta$ -yl- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)]- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 3)]- $\beta$ -D-fucopyranoside  
C<sub>48</sub>H<sub>80</sub>O<sub>19</sub> (961.16). Source: GUAN MU CHAI HU *Bupleurum fruticosum*. Ref: 2247.



**21143** 1 $\beta$ ,2 $\alpha$ ,3 $\alpha$ ,24-Tetrahydroxyolean-12-en-28-oic acid  
C<sub>30</sub>H<sub>48</sub>O<sub>6</sub> (504.71). Pharm: Antifungal. Source: TAO *Prunus persica* (peel of unripe fruits). Ref: 2371.

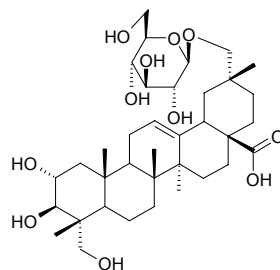


**21144** 2 $\alpha$ ,3 $\alpha$ ,23,29-Tetrahydroxyolean-12-en-28-oic acid  
C<sub>30</sub>H<sub>48</sub>O<sub>6</sub> (504.71). White needles (MeOH), mp 271–273°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +22.4° (*c* = 0.20, MeOH). Source: SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.00007%dw). Ref: 4665.



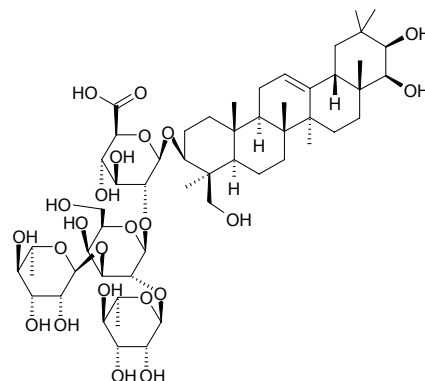
**21145** 2 $\alpha$ ,3 $\beta$ ,23,29-Tetrahydroxyolean-12-en-28-oic acid 29- $O$ - $\beta$ -D-glucopyranoside

C<sub>36</sub>H<sub>58</sub>O<sub>11</sub> (666.86). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +14° (*c* = 0.1, MeOH). Source: CU MAO NIU SHE CAO *Anchusa strigosa*. Ref: 5441.



**21146** 3 $\beta$ ,21 $\beta$ ,22 $\beta$ ,24-Tetrahydroxyolean-12-en-3- $O$ - $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-[ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 2)]- $\beta$ -D-galactopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucuronopyranoside

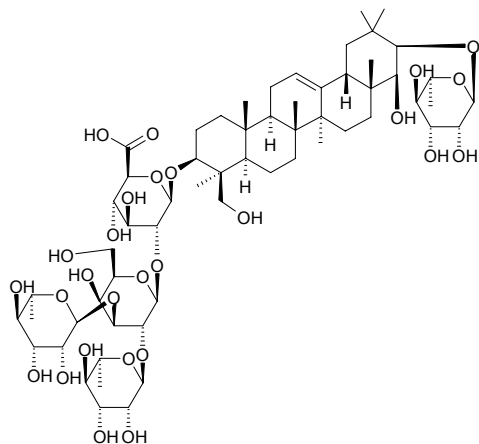
C<sub>54</sub>H<sub>88</sub>O<sub>23</sub> (1105.29). white amorphous solid, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -2.9° (*c* = 0.83, MeOH). Pharm: Antifungal (*Candida albicans*, MIC = 25 μg/mL). Source: AI SAI E BI YA YU SHAN DOU *Lupinus angustifolius*. Ref: 2025.



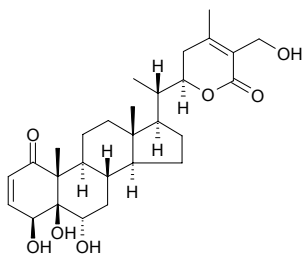


**21147** 3 $\beta$ ,21 $\beta$ ,22 $\beta$ ,24-Tetrahydroxyolean-12-en-3-O- $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-[ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 2)]- $\beta$ -D-galactopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucuronopyranosyl-21-O- $\alpha$ -L-rhamnopyranoside

C<sub>60</sub>H<sub>98</sub>O<sub>27</sub> (1251.43). white amorphous solid,  $[\alpha]_D^{25} = -8.4^\circ$  ( $c = 0.83$ , MeOH). **Pharm:** Antifungal (*Candida albicans*, MIC = 30 $\mu$ g/mL). **Source:** AI SAI E BI YA YU SHAN DOU *Lupinus angustifolius*. **Ref:** 2025.

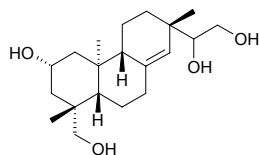


**21148** (20S,22R)-4 $\beta$ ,5 $\beta$ ,6 $\alpha$ ,27-Tetrahydroxy-1-oxowitha-2,24-dienolide  
C<sub>28</sub>H<sub>40</sub>O<sub>7</sub> (488.63). **Pharm:** Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line, 1 $\mu$ mol/L). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root). **Ref:** 4198.



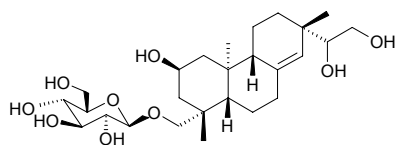
**21149** ent-2 $\alpha$ ,15,16,19-Tetrahydroxypimar-8(14)-ene

C<sub>20</sub>H<sub>34</sub>O<sub>4</sub> (338.49). White amorphous powder,  $[\alpha]_D^{20} = -18.4^\circ$  ( $c = 0.50$ , MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.0002%). **Ref:** 4764.



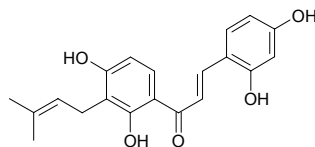
**21150** ent-2 $\beta$ ,15,16,19-Tetrahydroxypimar-8(14)-en-19-O- $\beta$ -glucopyranoside

C<sub>26</sub>H<sub>44</sub>O<sub>9</sub> (500.64). Pale gum,  $[\alpha]_D^{20} = -35.9^\circ$  ( $c = 1.32$ , MeOH). **Source:** XI XIAN *Siegesbeckia orientalis* (aerial parts: yield = 0.0011%). **Ref:** 4764.



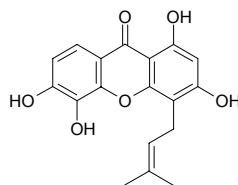
**21151** 2,4,2',4'-Tetrahydroxy-3'-prenylchalcone

Anticancer Flavonoid PMV70P691-113 C<sub>20</sub>H<sub>20</sub>O<sub>5</sub> (340.38). **Pharm:** Aromatase inhibitor (*in vitro*, IC<sub>50</sub> = 4.6 $\mu$ mol/L; control Aminoglutethimide, IC<sub>50</sub> = 6.4 $\mu$ mol/L). **Source:** GOU SHU *Broussonetia papyrifera*. **Ref:** 3090, 5038.



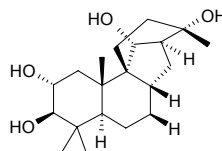
**21152** 1,3,5,6-Tetrahydroxy-4-prenylxanthone

C<sub>18</sub>H<sub>16</sub>O<sub>6</sub> (328.32). Pale yellow crystals. **Source:** DI ER CAO *Hypericum japonicum*, HENG LI DI ER CAO *Hypericum henryi*. **Ref:** 775.



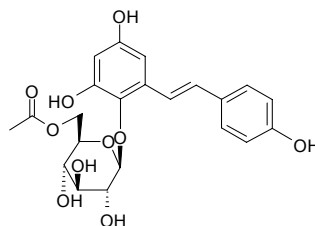
**21153** 2 $\alpha$ ,3 $\beta$ ,13(S),16 $\alpha$ -Tetrahydroxystemodane

C<sub>20</sub>H<sub>34</sub>O<sub>4</sub> (338.49). Prisms, mp 239–240°C,  $[\alpha]_D^{27} = -17.9^\circ$  ( $c = 0.47$ , MeOH). **Source:** DAO GEN MEI *Rhizopus oryzae*. **Ref:** 3781.



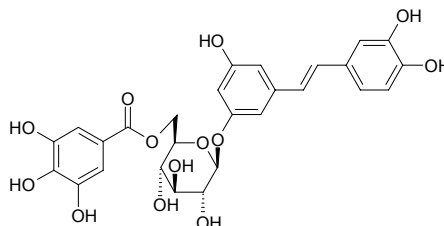
**21154** 2,3,5,4'-Tetrahydroxystilbene-2-O-(6''-O-acetyl)- $\beta$ -D-glucopyranoside

C<sub>22</sub>H<sub>24</sub>O<sub>10</sub> (448.43). Colorless acicular crystals, mp 173–174°C. **Source:** HE SHOU WU *Polygonum multiflorum*. **Ref:** 847.



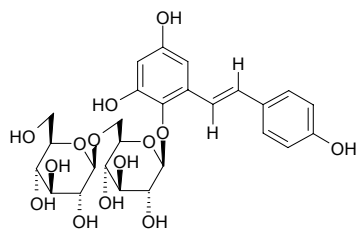
**21155** (E)-3,5,3',4'-Tetrahydroxystilbene 3-O- $\beta$ -D-(6-O-galloyl)glucopyranoside

C<sub>27</sub>H<sub>26</sub>O<sub>13</sub> (558.50). Colorless needles, mp 173–174°C,  $[\alpha]_D^{27} = -84.6^\circ$  ( $c = 0.14$ , MeOH). **Source:** *Eskemukerjea megacarpum* (underground part: yield = 0.010%dw). **Ref:** 924.



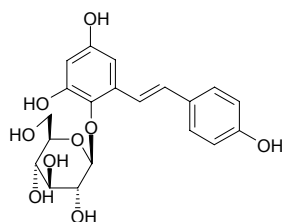
**21156 2,3,5,4'-Tetrahydroxystilbene-2-O-(6''-O- $\alpha$ -D-glucopyranosyl)- $\beta$ -D-glucopyranoside**

C<sub>26</sub>H<sub>32</sub>O<sub>14</sub> (568.54). Light brown acicular crystals, mp 203~204°C. **Pharm:** Inhibits cell proliferation (SMC, strong). **Source:** HE SHOU WU *Polygonum multiflorum*. **Ref:** 864.



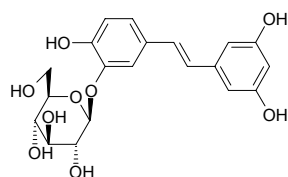
**21157 2,3,5,4'-Tetrahydroxystilbene-2-O- $\beta$ -D-glucoside**

[55327-45-2] C<sub>20</sub>H<sub>22</sub>O<sub>9</sub> (406.39). Yellowish acicular crystals, mp 183~184°C, [ $\alpha$ ]<sub>D</sub><sup>17</sup> = +31.6° (c = 0.95, methanol). **Pharm:** Antithrombotic; protects liver; antioxidant (inhibits lipid peroxidation induced by ADP and NADPH in microsome of rat hepatic cells, 50~100mg/kg, orl, reduces GOT and GPT level in rat serum). **Source:** HU ZHANG *Polygonum cuspidatum*, HE SHOU WU *Polygonum multiflorum* (dried tuberoid (crude): content scope of 9 batch samples = 0.143%~6.852%, mean content = 3.474%<sup>[5508]</sup>). **Ref:** 2, 900, 5501, 5508.



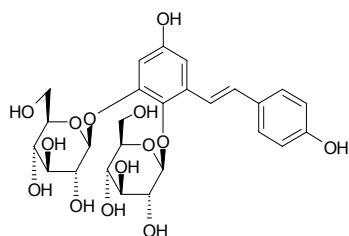
**21158 3,4,3',5'-Tetrahydroxystilbene-3-glucoside**

Piceatannol 3'-O- $\beta$ -D-glucopyranoside C<sub>20</sub>H<sub>22</sub>O<sub>9</sub> (406.39). **Source:** ZHANG YE DA HUANG *Rheum palmatum*, TANG GU TE DA HUANG *Rheum tanguticum*, YU DA HUANG *Rheum* sp.<sup>[4064]</sup>. **Ref:** 2, 660, 2834, 4064.



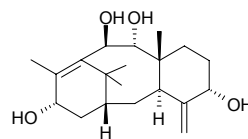
**21159 2,3,5,4'-Tetrahydroxystilbene-2,3-O- $\beta$ -D-diglucoside**

C<sub>26</sub>H<sub>32</sub>O<sub>14</sub> (568.54). Colorless acicular crystals, mp 265~267°C. **Source:** HE SHOU WU *Polygonum multiflorum*. **Ref:** 292.



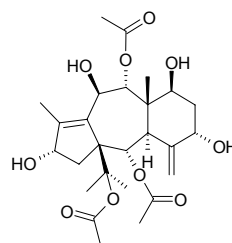
**21160 Tetrahydroxytaxadiene**

5 $\alpha$ ,9 $\alpha$ ,10 $\beta$ ,13 $\alpha$ -Tetrahydroxy-4(20),11-taxadiene C<sub>20</sub>H<sub>32</sub>O<sub>4</sub> (336.48). mp 195~198°C, [ $\alpha$ ]<sub>D</sub> = +134°. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.



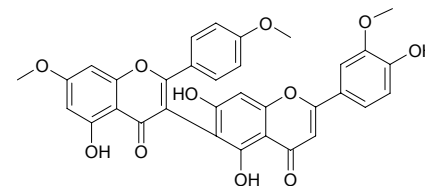
**21161 5 $\alpha$ ,7 $\beta$ ,10 $\beta$ ,13 $\alpha$ -Tetrahydroxy-2 $\alpha$ ,9 $\alpha$ ,15-triacetoxy-11(15→1)-abeo-taxa-4(20),11-diene**

C<sub>26</sub>H<sub>38</sub>O<sub>10</sub> (510.59). Oily compound, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +112° (MeOH). **Source:** XI MA LA YA HONG DOU SHAN *Taxus wallichiana* (bark). **Ref:** 4245.



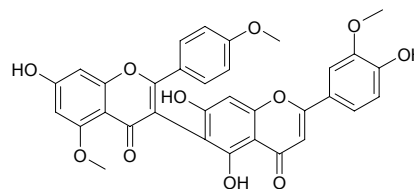
**21162 4''',5',7''-Tetrahydroxy-3''',4',7-trimethoxy-3,6''-biflavone**

C<sub>33</sub>H<sub>24</sub>O<sub>11</sub> (596.55). Yellow solid, mp 230~232°C (Me<sub>2</sub>CO), [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -33.7° (c = 0.6100, Me<sub>2</sub>CO). **Source:** *Aristolochia ridicula* (stem). **Ref:** 5111.



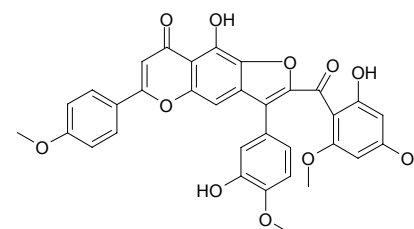
**21163 4''',5',7''-Tetrahydroxy-3''',4',7-trimethoxy-3,6''-biflavone**

C<sub>33</sub>H<sub>24</sub>O<sub>11</sub> (596.55). Yellow solid, mp 224~226°C (Me<sub>2</sub>CO), [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +30.1° (c = 2.0000, Me<sub>2</sub>CO). **Source:** *Aristolochia ridicula* (stem). **Ref:** 5111.



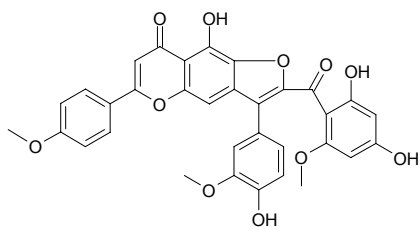
**21164 3''',5,5'',7''-Tetrahydroxy-3''',4',4''-trimethoxy-6-O- $\alpha$ ,7- $\beta$ -flavone-chalcone**

C<sub>33</sub>H<sub>24</sub>O<sub>11</sub> (596.55). Yellow solid, mp 254~256°C (Me<sub>2</sub>CO), [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +17.4° (c = 0.9000, Me<sub>2</sub>CO). **Source:** *Aristolochia ridicula* (stem). **Ref:** 5111.



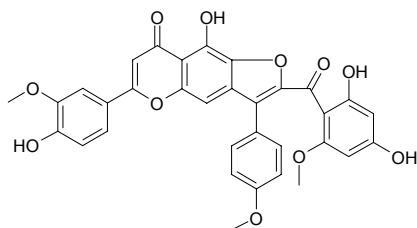
**21165** 4''',5,5'',7'''-Tetrahydroxy-3'',3''',4'-trimethoxy-6-O- $\alpha$ ,7- $\beta$ -flavone-chalcone

C<sub>33</sub>H<sub>24</sub>O<sub>11</sub> (596.55). Yellow solid, mp 253~255°C (Me<sub>2</sub>CO), [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +15.5° (c = 1.0000, Me<sub>2</sub>CO). Source: *Aristolochia ridicula* (stem). Ref: 5111.



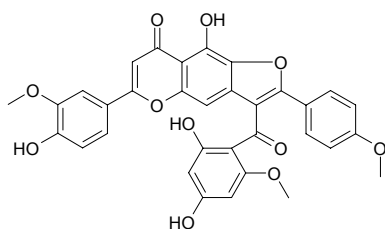
**21166** 4',5,5'',7'''-Tetrahydroxy-3',3''',4'''-trimethoxy-6-O- $\alpha$ ,7- $\beta$ -flavone-chalcone

C<sub>33</sub>H<sub>24</sub>O<sub>11</sub> (596.55). Yellow solid, mp 236~238°C (Me<sub>2</sub>CO), [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +23.1° (c = 0.8002, Me<sub>2</sub>CO). Source: *Aristolochia ridicula* (stem). Ref: 5111.



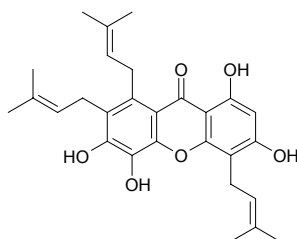
**21167** 4',5,5'',7'''-Tetrahydroxy-3',3''',4'''-trimethoxy-6-O- $\beta$ ,7- $\alpha$ -flavone-chalcone

C<sub>33</sub>H<sub>24</sub>O<sub>11</sub> (596.55). Yellow solid, mp 250~253°C (Me<sub>2</sub>CO), [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -30.1° (c = 0.90, Me<sub>2</sub>CO). Source: *Aristolochia ridicula* (stem). Ref: 5111.



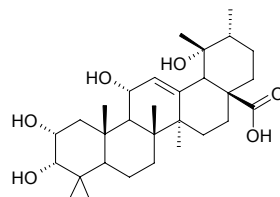
**21168** 1,3,5,6-Tetrahydroxy-4,7,8-tri(3-methyl-2-butenyl)xanthone

C<sub>28</sub>H<sub>32</sub>O<sub>6</sub> (464.56). Yellow powder (MeOH), mp 190~192°C. Pharm: Neurite outgrowth enhancer (PC12D cells, 3 $\mu$ mol/L, NGF-mediated neurite outgrowth, to enhance the ability of NGF, may be useful in the treatment of neurological disorders). Source: DA YE TENG HUANG *Garcinia xanthochymus* (wood). Ref: 4404.



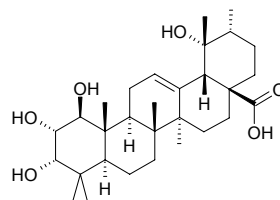
**21169** 2 $\alpha$ ,3 $\alpha$ ,11 $\alpha$ ,19 $\alpha$ -Tetrahydroxy-urs-12-en-28-oic acid

C<sub>30</sub>H<sub>48</sub>O<sub>6</sub> (504.71). White amorphous powder. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*] (stem). Ref: 4561.



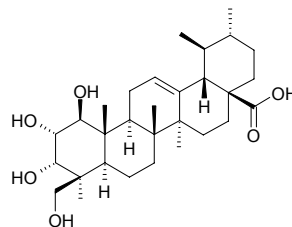
**21170** 1 $\beta$ ,2 $\alpha$ ,3 $\alpha$ ,19 $\alpha$ -Tetrahydroxyurs-12-en-28-oic acid

C<sub>30</sub>H<sub>48</sub>O<sub>6</sub> (504.71). Pharm: Cytotoxic (HSC-2, IC<sub>50</sub> = 100 $\mu$ g/mL; HGF, IC<sub>50</sub> > 200 $\mu$ g/mL). Source: DI YU *Sanguisorba officinalis*. Ref: 5160.



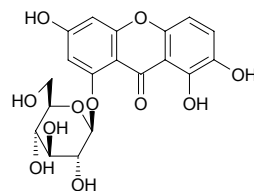
**21171** 1 $\beta$ ,2 $\alpha$ ,3 $\alpha$ ,24-Tetrahydroxyurs-12-en-28-oic acid

C<sub>30</sub>H<sub>48</sub>O<sub>6</sub> (504.71). Pharm: Antifungal. Source: TAO *Prunus persica* (peel of unripe fruits). Ref: 2371.



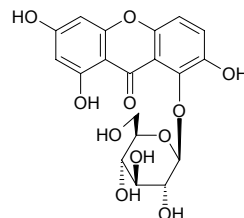
**21172** 1,3,7,8-Tetrahydroxyxanthone-1-O- $\beta$ -D-glucopyranoside

C<sub>19</sub>H<sub>18</sub>O<sub>11</sub> (422.35). Yellow crystalline powder, mp 255~258°C. Source: BAO E ZHANG YA CAI *Swertia calycina*. Ref: 634.



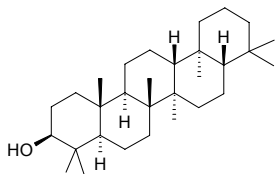
**21173** 1,3,7,8-Tetrahydroxyxanthone-8-O- $\beta$ -D-glucopyranoside

C<sub>19</sub>H<sub>18</sub>O<sub>11</sub> (422.35). Cream white powder, mp 256~260°C. Source: BAO E ZHANG YA CAI *Swertia calycina*. Ref: 634.

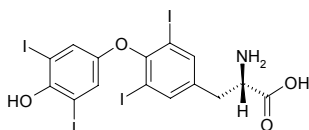


**21174 Tetrahymanol**

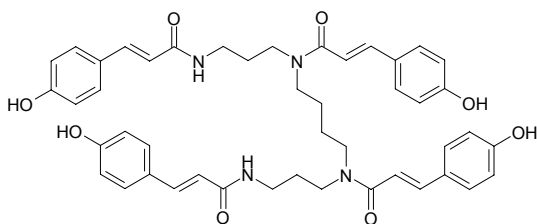
3 $\beta$ -Hydroxy  $\gamma$ -cerane C<sub>30</sub>H<sub>52</sub>O (428.75). Source: DAO LUAN YE FU SHI JUE *Lemnaphyllum microphyllum* var. *obovatum*. Ref: 660.

**21175 3,5,3',5'-Tetraiodothyronine**

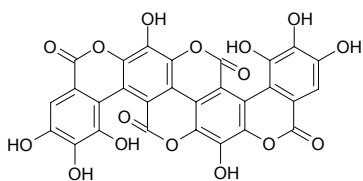
Thyrosine [300-30-1] C<sub>15</sub>H<sub>11</sub>I<sub>4</sub>NO<sub>4</sub> (776.88). mp (-) 235°C, ( $\pm$ ) 220°C (changing to black), 231–233°C (dec). Source: NIU YE *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**21176 N1,N5,N10,N14-Tetrakis[3-(4-hydroxyphenyl)-2-propenoyl]-1,5,10,14-tetraazatetradecane**

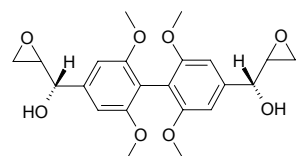
C<sub>46</sub>H<sub>50</sub>N<sub>4</sub>O<sub>8</sub> (786.93). Pharm: Nonpeptide tachykinin NK<sub>1</sub> receptor antagonist (guinea pig ileum, K<sub>i</sub> = 21.9nmol/L, hmN NK<sub>1</sub> receptors on CHO cells, K<sub>i</sub> = 3.3nmol/L, K<sub>i</sub> is the concentration of compound which displaces the log concentration response curve by log 2). Source: GAO GUI CHUN HUANG JU *Anthemis nobilis*, MU<sup>(3)</sup> JU *Matricaria chamomilla* [Syn. *Matricaria recutita*] (dried flower). Ref: 4062.

**21177 Tetrameric gallic acid**

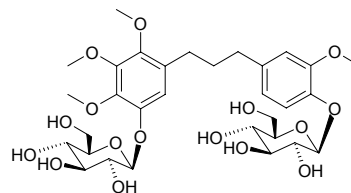
C<sub>28</sub>H<sub>10</sub>O<sub>16</sub> (602.38). Source: SHI LIU PI *Punica granatum*. Ref: 660.

**21178 2,6,2',6'-Tetramethoxy-4,4'-bis(2,3-epoxy-1-hydroxypropyl) biphenyl**

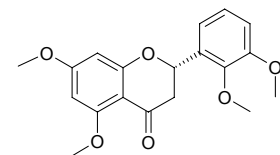
C<sub>22</sub>H<sub>26</sub>O<sub>8</sub> (418.45). Colorless needles (CHCl<sub>3</sub>), mp 175–176°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +75° (c = 0.11, CHCl<sub>3</sub>). Source: BAI WEI *Cynanchum atratum* (root). Ref: 3054.

**21179 2',3',4',3''-Tetramethoxy-1,3-diphenylpropane 5',4''-di-O- $\beta$ -D-glucopyranoside**

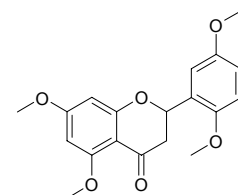
C<sub>31</sub>H<sub>44</sub>O<sub>16</sub> (672.69). Colorless amorphous solid. Source: LENG ZHI HU JI SHENG *Viscum angulatum* (whole herb: yield = 0.00086%dw). Ref: 4626.

**21180 (2S)-5,7,2',3'-Tetramethoxyflavanone**

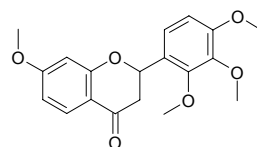
C<sub>19</sub>H<sub>20</sub>O<sub>6</sub> (344.37). Colorless solid (CHCl<sub>3</sub>), mp 164–166°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -34.8° (c = 0.01, MeOH). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (whole herb). Ref: 3841.

**21181 5,7,2',5'-Tetramethoxyflavanone**

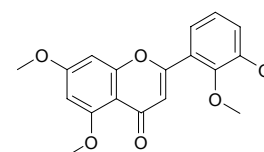
C<sub>19</sub>H<sub>20</sub>O<sub>6</sub> (344.37). Colorless solid (MeOH), mp 198–200°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -18.6° (c = 0.14, MeOH). Source: *Andrographis rothii* (whole herb). Ref: 4311.

**21182 7,2',3',4'-Tetramethoxyflavanone**

C<sub>19</sub>H<sub>20</sub>O<sub>6</sub> (344.37). Amorphous powder, mp 180–182°C (MeOH), [ $\alpha$ ]<sub>D</sub><sup>28</sup> = -16.3° (c = 0.12, MeOH). Source: WU CI ZHU YING HUA *Calliandra inermis*. Ref: 2588.

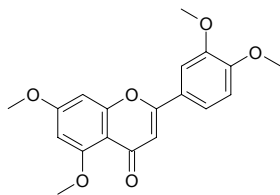
**21183 5,7,2',3'-Tetramethoxyflavone**

C<sub>19</sub>H<sub>18</sub>O<sub>6</sub> (342.35). Yellowish solid (MeOH), mp 152–154°C. Source: NAN YIN DU CHUAN XIN LIAN *Andrographis viscosula* (whole herb). Ref: 4406.

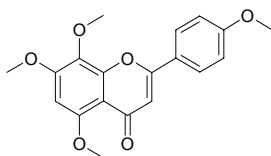


**21184 5,7,3',4'-Tetramethoxyflavone**

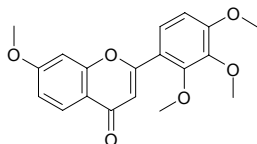
$C_{19}H_{18}O_6$  (342.35). Yellow crystals. Source: BAI YE XIANG CHA CAI *Isodon leucophyllus*. Ref: 2489.

**21185 5,7,8,4'-Tetramethoxyflavone**

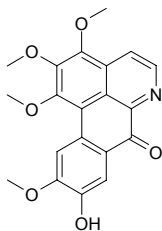
Tetra-*O*-methylisoscutelellarin [6601-66-7]  $C_{19}H_{18}O_6$  (342.35). Colorless rhombic crystals (methanol), mp 216–217°C. Pharm: Induces cell differentiation (mus myelocytic leukemia cells, 50  $\mu$ mol/L, growing rate = 47%, 5  $\mu$ mol/L, growing rate = 78%, 50  $\mu$ mol/L, activity of macrophages > 25%, 5  $\mu$ mol/L, activity of macrophages > 78%, HL-60, 100  $\mu$ mol/L, growing rate = (50–65)%, 50  $\mu$ mol/L, growing rate = (73–79)%, 100  $\mu$ mol/L, activity of macrophages > 25%, 50  $\mu$ mol/L, activity of macrophages > 10%). Source: ZHI SHI *Citrus aurantium*, YOU<sup>(4)</sup> *Citrus grandis*, JU PI *Citrus reticulata*, JIAO GAN *Citrus tankan*. Ref: 900.

**21186 7,2',3',4'-Tetramethoxyflavone**

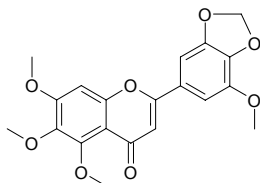
$C_{19}H_{18}O_6$  (342.35). Amorphous powder, mp 192–194°C (MeOH). Source: WU CI ZHU YING HUA *Calliandra inermis*. Ref: 2588.

**21187 1,2,3,10-Tetramethoxy-9-hydroxy-4,5,6,6 $\alpha$ -dehydro-7-aporphhinone**

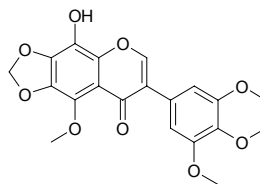
$C_{20}H_{17}NO_6$  (367.36). Nacarat powder (MeOH), mp 166–168°C. Source: XIAO YE TANG SONG CAO *Thalictrum elegans* (whole herb). Ref: 4579.

**21188 5,6,7,5'-Tetramethoxy-3',4'-methylenedioxyflavone**

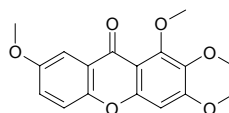
$C_{20}H_{18}O_8$  (386.36). White needles (acetone). Source: LONG XU TENG *Bauhinia championii* (stem). Ref: 4548.

**21189 5,3',4',5'-Tetramethoxy-6,7-methylenedioxyisoflavone**

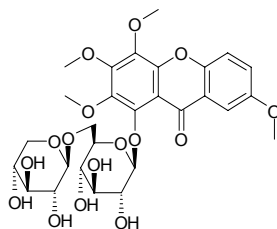
$C_{20}H_{18}O_9$  (402.36). Source: JUAN QIAO YUAN WEI *Iris potaninii* (underground part). Ref: 4235.

**21190 1,2,3,7-Tetramethoxyxanthone**

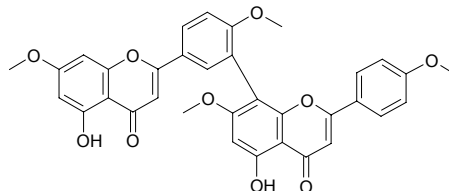
$C_{17}H_{16}O_6$  (316.31). Source: HONG CHAI HU *Bupleurum scorzoniferolium* (root). Ref: 3498.

**21191 2,3,4,7-Tetramethoxyxanthone-1-*O*- $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside**

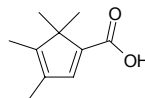
$C_{28}H_{34}O_{16}$  (626.57). Yellowish acicular crystals, mp 134–135°C,  $[\alpha]_D^{25} = -125^\circ$  ( $c = 0.4\%$ , pyridine). Source: HUANG QIN JIAO *Veratilla baillonii*. Ref: 328.

**21192 7,4',7'',4'''-Tetra-*O*-methylamentoflavone**

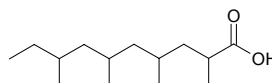
$C_{34}H_{26}O_{10}$  (594.58). Source: DA YE CAI *Selaginella doederleinii*. Ref: 660.

**21193 3,4,5,5-Tetramethylcyclopenta-1,3-dienecarboxylic acid**

$C_{10}H_{14}O_2$  (166.22). White solid. Source: *Lavandula luisieri* (essential oil). Ref: 5301.

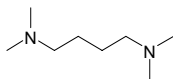
**21194 (-)-2*D*,4*D*,6*D*,8*D*-Tetramethyl decanoic acid**

$C_{14}H_{28}O_2$  (228.38). Source: E CUI *Anser cygnoides domestica*. Ref: 6.

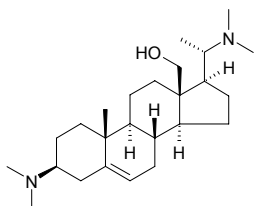


**21195 Tetramethyl diaminobutane**

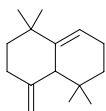
[111-51-3] C<sub>8</sub>H<sub>20</sub>N<sub>2</sub> (144.26). bp 169°C. Source: LANG DANG GEN *Hyoscyamus niger*, LANG DANG ZI *Hyoscyamus niger*. Ref: 6.

**21196 N,N,N',N'-Tetramethyl-holarrhimine**

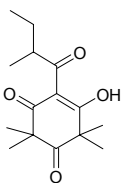
C<sub>25</sub>H<sub>44</sub>N<sub>2</sub>O (388.64). mp 233~235°C. Source: ZHI XIE MU PI *Holarrhena antidysenterica*. Ref: 6, 660.

**21197 1,1,5,5-Tetramethyl-4-methano-2,3,4,6,7,10-hexahydronaphthalene**

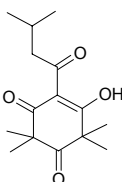
C<sub>15</sub>H<sub>24</sub> (204.36). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

**21198 2,2,4,4-Tetramethyl-6-(2-methyl-1-oxobutyl)-1,3,5-cyclohexanetrione**

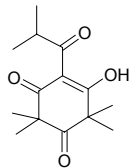
[5009-05-2] C<sub>15</sub>H<sub>22</sub>O<sub>4</sub> (266.34). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *polygalifolium* (foliage). Ref: 3485.

**21199 2,2,4,4-Tetramethyl-6-(3-methyl-1-oxobutyl)-1,3,5-cyclohexanetrione**

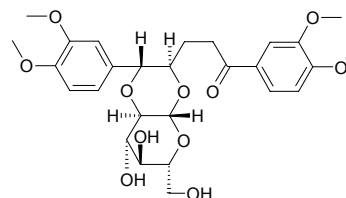
Leptospermonone; Leptospermol [567-75-9] C<sub>15</sub>H<sub>22</sub>O<sub>4</sub> (266.34). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *polygalifolium* (foliage). Ref: 3485.

**21200 2,2,4,4-Tetramethyl-6-(2-methyl-1-oxopropyl)-1,3,5-cyclohexanetrione**

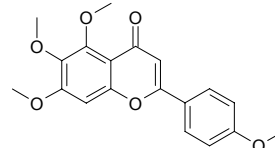
Flavesone [22595-45-5] C<sub>14</sub>H<sub>20</sub>O<sub>4</sub> (252.31). Source: YUAN ZHI YE AO ZHOU CHA *Leptospermum polygalifolium* ssp. *polygalifolium* (foliage). Ref: 3485.

**21201 Tetra-O-methylpilosidine**

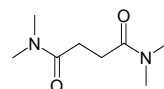
C<sub>27</sub>H<sub>34</sub>O<sub>11</sub> (534.57). Crystals (MeOH-EtOAc), mp 166~168°C, [α]<sub>D</sub><sup>20</sup> = +58.4° (c = 0.5, CHCl<sub>3</sub>:MeOH = 1:1). Source: MAO XIAN MAO *Curculigo pilosa* (rhizome). Ref: 5095.

**21202 Tetramethylscutellarein**

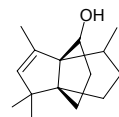
[1168-42-9] C<sub>19</sub>H<sub>18</sub>O<sub>6</sub> (342.35). Source: RI BEN ZI ZHU *Callicarpa japonica*, XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0028%dw), YANG OU XIA ZHI CAO *Marrubium peregrinum*, YAO YONG DAN SHEN YE *Salvia officinalis*. Ref: 1521, 3053.

**21203 N,N,N',N'-Tetramethylsuccinamide**

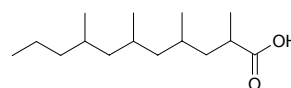
C<sub>8</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub> (172.23). Source: XIAN MAO *Curculigo orchioides*. Ref: 660.

**21204 6,6,8,9-Tetramethyltricyclo[3.3.3.0]undec-7-en-2-ol**

C<sub>15</sub>H<sub>24</sub>O (220.36). Colorless to white needles, mp 62°C, [α]<sub>D</sub><sup>20</sup> = +8° (c = 1, CH<sub>2</sub>Cl<sub>2</sub>). Source: *Psiadia anchusifolia* (fresh leaf). Ref: 3787.

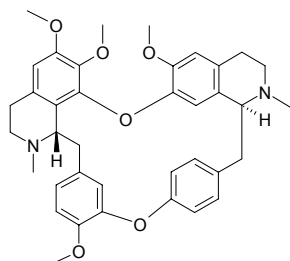
**21205 (-)-2D,4D,6D,8D-Tetramethyl undecanoic acid**

C<sub>15</sub>H<sub>30</sub>O<sub>2</sub> (242.41). Source: E CUI *Anser cygnoides domestica*. Ref: 6.

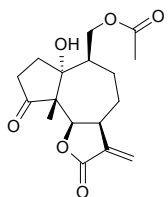


**21206 Tetrandrine**

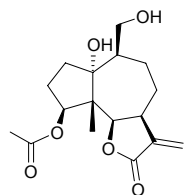
Fanchinin; Hanfangchin A [518-34-3]  $C_{38}H_{42}N_2O_6$  (622.77). mp ( $\pm$ ) 257~258°C, mp (+) 217~218°C,  $[\alpha]_D^{26} = +252.4^\circ$  (chloroform), soluble in ethanol, ether, chloroform, insoluble in water, petroleum ether<sup>[5507]</sup>. **Pharm:** Analgesic; antiallergic; antiarrhythmic (negative inotropic action); antibacterial (*Mycobacterium tuberculosis*, *in vitro* and *in vivo*); antineoplastic (mus, EAC and S<sub>180</sub>, *in vivo*); anti-inflammatory (modulator of cytokine network: prevents integrin-mediated neutrophil adhesion and fMLP- or leukotriene B<sub>4</sub>-induced transmigration, IC<sub>50</sub> = 1~5  $\mu$ g/mL)<sup>[4416]</sup>; IL-6 inhibitor (*in vitro*, IC<sub>50</sub> > 6  $\mu$ mol/L)<sup>[4416]</sup>; cytotoxic (HeLa, *in vitro*); platelet aggregation inhibitor (rbt); antihypertensive; muscle relaxant; used in treatment of silicosis. **Source:** BAI YAO ZI *Stephania cepharantha*, BIAN FU GE GEN *Menispermum dauricum* (rhizome: mean content = 0.994%<sup>[5508]</sup>), CAI WEN QIAN JIN TENG *Stephania discolor*, FANG JI *Stephania tetrandra* (dried root: content scope = 1.187%~3.537%<sup>[5501]</sup>, mean content of 6 origins = 1.915%<sup>[5508]</sup>), HAN FANG JI *Aristolochia heterophylla*, QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*], XI SHENG TENG *Cissampelos pareira*, YIN BU HUAN *Cyclea barbata*. **Ref:** 5, 658, 660, 4416, 5501, 5507, 5508.

**21207 Tetraneurin A**

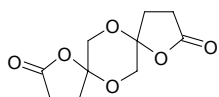
$C_{17}H_{22}O_6$  (322.36). **Pharm:** Dermatitic (causes contact dermatitis); insect antifeedant. **Source:** family Asteraceae spp. **Ref:** 658.

**21208 Tetraneurin E**

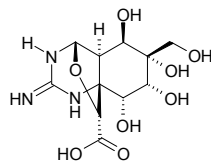
$C_{17}H_{24}O_6$  (324.38). **Pharm:** larvacide (insect larva growth inhibitor). **Source:** family Asteraceae spp. **Ref:** 658.

**21209 (5R,8R)-1,6,9,13-Tetraoxadispiro[4.2.4.2]tetradecane-2,10-dione**

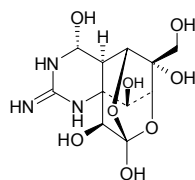
$C_{10}H_{12}O_6$  (228.20). **Source:** A ER TAI YIN LIAN HUA *Anemone altaica* **Ref:** 660.

**21210 Tetrodonic acid**

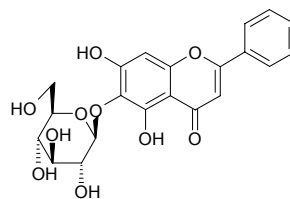
$C_{11}H_{17}N_3O_8$  (319.27). **Source:** HE TUN *Fugu ocellatus*. **Ref:** 6.

**21211 Tetrodotoxin**

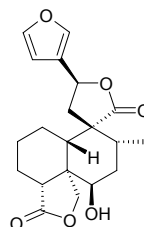
Tarichatoxin; Spheridine; Tetrodotoxin; Fugu poison; Maculotoxin; Araregai toxin  $C_{11}H_{17}N_3O_8$  (319.27). Colorless prismatic crystals,  $[\alpha]_D^{25} = -8.64^\circ$  ( $c = 8.55$ , diluted acetic acid), soluble in diluted acetic acid, slightly soluble in water, absolute ethanol, ether, insoluble in other common organic solvents.<sup>[5507]</sup> **Pharm:** Blocks permeation of sodium through membranes of nerval fibrocyte; MLD (hmn) = 7  $\mu$ g/kg; LD<sub>50</sub> (mus, ip) = 10  $\mu$ g/kg. **Source:** HE TUN *Fugu ocellatus* (in 1909, isolated for the first time<sup>[5507]</sup>). **Ref:** 6, 658, 5507.

**21212 Tetuin**

$C_{21}H_{20}O_{10}$  (432.39). mp 114°C. **Source:** MU HU DIE *Oroxylum indicum*. **Ref:** 6.

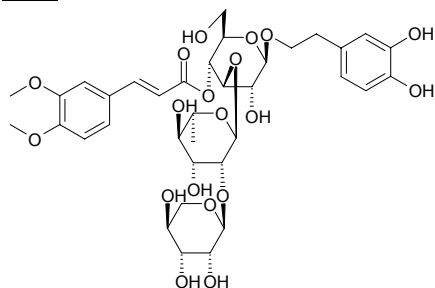
**21213 Teucrin H<sub>2</sub>**

$C_{20}H_{24}O_6$  (360.41). **Pharm:** Insect antifeedant (*Spodoptera litura*, 10  $\mu$ g/cm<sup>2</sup>, antifeedant activity = (72.0 $\pm$ 2.7)%; control Azadirachtin A, 0.5  $\mu$ g/cm<sup>2</sup>, antifeedant activity = (79 $\pm$ 2)%; *Plutella xylostella*, 10  $\mu$ g/cm<sup>2</sup>, antifeedant activity = (78.7 $\pm$ 2.3)%; control Azadirachtin A, 0.5  $\mu$ g/cm<sup>2</sup>, antifeedant activity = (71 $\pm$ 2)%). **Source:** RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts), SUAN WEI XIANG KE KE *Teucrium scordium*. **Ref:** 3478.

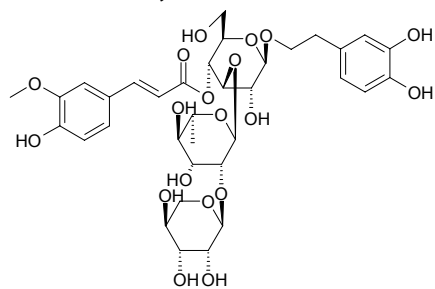


**21214 Teucroside-3'''',4''''-O-dimethylether**

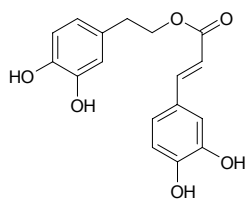
2-(3,4-Dihydroxyphenethyl)-*O*- $\alpha$ -L-lyxopyranosyl-(1 $\rightarrow$ 2)- $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-4-*O*-3,4-dimethoxy-*trans*-cinnamoyl- $\beta$ -D-glucopyranoside C<sub>36</sub>H<sub>48</sub>O<sub>19</sub> (784.77). White powder,  $[\alpha]_D^{25} = -60.0^\circ$  ( $c = 0.0007$ , MeOH). Source: SHI CAN XIANG KE KE *Teucrium chamaedrys*. Ref: 3431.

**21215 Teucroside-3'''',-O-methylether**

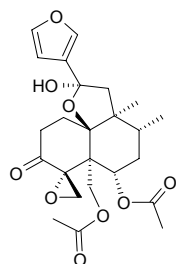
2-(3,4-Dihydroxyphenethyl)-*O*- $\alpha$ -L-lyxopyranosyl-(1 $\rightarrow$ 2)- $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 3)-4-*O*-*trans*-feruloyl- $\beta$ -D-glucopyranoside C<sub>35</sub>H<sub>46</sub>O<sub>19</sub> (770.75).  $[\alpha]_D^{25} = -87.5^\circ$  ( $c = 0.0008$ , MeOH). Source: SHI CAN XIANG KE KE *Teucrium chamaedrys*. Ref: 3431.

**21216 Teucrol**

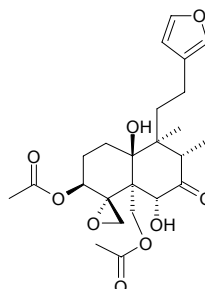
3,4-Dihydroxy- $\beta$ -phenylethyl caffeate, 9'-Decarboxyrosmarinic acid C<sub>17</sub>H<sub>16</sub>O<sub>6</sub> (316.31). Off-white amorphous powder. Source: CHANG MAO XIANG KE KE *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*] (whole herb). Ref: 5117.

**21217 Teucrolivin A**

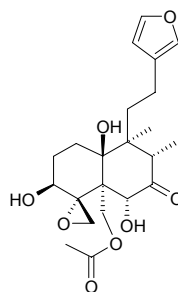
C<sub>24</sub>H<sub>30</sub>O<sub>9</sub> (462.50). Pharm: Insect antifeedant (*Spodoptera littoralis* FI<sub>50</sub> = 3mg/L, *Heliocoverpa armigera* FI<sub>50</sub> = 70mg/L, *Spodoptera frugiperda*). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

**21218 Teucrolivin B**

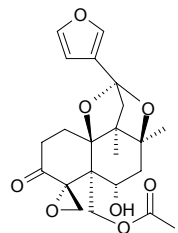
C<sub>24</sub>H<sub>32</sub>O<sub>9</sub> (464.52). Pharm: Insect antifeedant (*Spodoptera littoralis* FI<sub>50</sub> = 650mg/L, *Heliocoverpa armigera* FI<sub>50</sub> > 1000mg/L, *Spodoptera frugiperda*). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

**21219 Teucrolivin C**

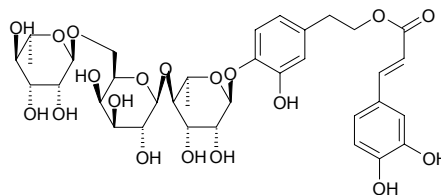
C<sub>22</sub>H<sub>30</sub>O<sub>8</sub> (422.48). Pharm: Insect antifeedant (*Spodoptera littoralis* FI<sub>50</sub> > 1000mg/L, *Heliocoverpa armigera* FI<sub>50</sub> > 1000mg/L, *Spodoptera frugiperda*). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

**21220 Teucrolivin H**

C<sub>22</sub>H<sub>26</sub>O<sub>8</sub> (418.45). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

**21221 Teucroside**

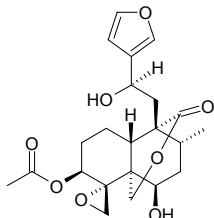
Teucrol-4'-*O*- $\alpha$ -rhamnopyranosyl-(1''' $\rightarrow$ 6''')- $\beta$ -*O*-galacto-pyranosyl-(1''' $\rightarrow$ 4''')- $\alpha$ -*O*-rhamnopyranoside; 9'-Decarboxyrosmarinic acid 4'-*O*- $\alpha$ -rhamnosyl-(1''' $\rightarrow$ 6''')-*O*- $\beta$ -galactosyl-(1''' $\rightarrow$ 4''')-*O*- $\alpha$ -rhamnoside C<sub>35</sub>H<sub>46</sub>O<sub>19</sub> (770.75). Faint brown amorphous powder. Source: CHANG MAO XIANG KE KE *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*] (whole herb). Ref: 5117.



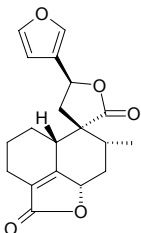


**21222 Teuctosin**

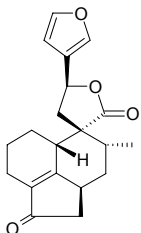
$C_{22}H_{28}O_8$  (420.46). White solid, mp 198–200°C,  $[\alpha]_D = +88^\circ$  ( $c = 0.25$ , MeOH). **Pharm:** Insect antifeedant (*Spodoptera litura*, 10 $\mu$ g/cm<sup>2</sup>, antifeedant activity = (71.5 $\pm$ 2.0)%; control Azadirachtin A, 0.5 $\mu$ g/cm<sup>2</sup>, antifeedant activity = (79 $\pm$ 2)%; *Plutella xylostella*, 10 $\mu$ g/cm<sup>2</sup>, antifeedant activity = (77.4 $\pm$ 2.1)%; control Azadirachtin A, 0.5 $\mu$ g/cm<sup>2</sup>, antifeedant activity = (71 $\pm$ 2)%). **Source:** RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts). **Ref:** 3478.

**21223 Teucvin**

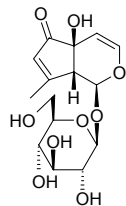
[51918-98-0]  $C_{19}H_{20}O_5$  (328.37). **Source:** ER CHI XIANG KE KE *Teucrium bidentatum*. **Ref:** 577.

**21224 Teuffin**

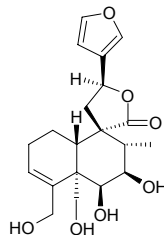
$C_{20}H_{22}O_4$  (326.40). **Pharm:** Insect antifeedant (*Spodoptera litura*, 10 $\mu$ g/cm<sup>2</sup>, antifeedant activity = (80.2 $\pm$ 2.1)%; control Azadirachtin A, 0.5 $\mu$ g/cm<sup>2</sup>, antifeedant activity = (79 $\pm$ 2)%; *Plutella xylostella*, 10 $\mu$ g/cm<sup>2</sup>, antifeedant activity = (84.2 $\pm$ 2.9)%; control Azadirachtin A, 0.5 $\mu$ g/cm<sup>2</sup>, antifeedant activity = (71 $\pm$ 2)%). **Source:** MAN HUO XIANG KE KE *Teucrium viscidum* var. *miquelianum*, RONG MAO XIANG KE KE *Teucrium tomentosum* (aerial parts). **Ref:** 3478.

**21225 Teuhircoside**

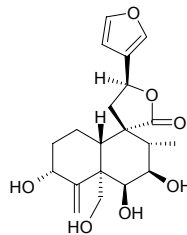
$C_{15}H_{20}O_9$  (344.32). **Source:** TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb). **Ref:** 4483.

**21226 Teulolin A**

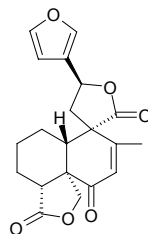
15,16-Epoxy-6 $\beta$ ,7 $\beta$ ,18,19-tetrahydroxy-neo-cleroda-3(4),13(16),14-trien-20,12(*S*)-olide  $C_{20}H_{26}O_7$  (378.43). Colorless amorphous powder,  $[\alpha]_D^{20} = -34^\circ$  ( $c = 0.2$ ,  $CHCl_3$ ). **Source:** HUI BAI SHI CAN *Teucrium polium*. **Ref:** 2325.

**21227 Teulolin B**

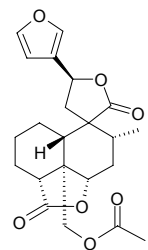
15,16-Epoxy-3 $\alpha$ ,6 $\beta$ ,7 $\beta$ ,18,19-tetrahydroxy-neo-cleroda-4(18),13(16),14-trien-20,12(*S*)-olide  $C_{20}H_{26}O_7$  (378.43). Colorless amorphous powder,  $[\alpha]_D^{20} = +14^\circ$  ( $c = 0.31$ ,  $CHCl_3$ ). **Source:** HUI BAI SHI CAN *Teucrium polium*. **Ref:** 2325.

**21228 Teuperinin A**

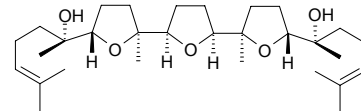
[135650-34-9]  $C_{20}H_{20}O_6$  (356.38). mp 196–198°C. **Source:** ER CHI XIANG KE KE *Teucrium bidentatum*. **Ref:** 577.

**21229 Teuquadrin B**

$C_{22}H_{26}O_7$  (402.45). Colorless acicular crystals, mp 236–239°C,  $[\alpha]_D^{26} = +46.27^\circ$  ( $c = 0.13$ ,  $CHCl_3$ ). **Source:** TIE ZHOU CAO *Teucrium quadrifarium*. **Ref:** 277.

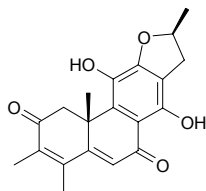
**21230 Teurilene**

$C_{30}H_{52}O_5$  (492.75). **Source:** *Eurycoma* sp. **Ref:** 4556.

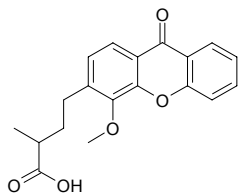


**21231 Teuvinenone E**

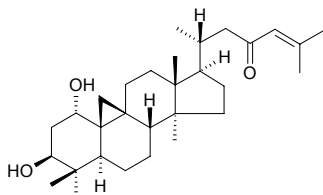
$C_{20}H_{20}O_5$  (340.38). mp 197.3°C,  $[\alpha]_D^{20} = +32.0^\circ$  ( $c = 0.85$ ,  $CHCl_3$ ). **Pharm:** Antiproliferative (*in vitro*, MTT assay, CEM,  $IC_{50} = 19.4\mu mol/L$ , control Doxorubicin,  $IC_{50} = 0.036\mu mol/L$ , HeLa,  $IC_{50} = 18.4\mu mol/L$ , Doxorubicin,  $IC_{50} = 0.027\mu mol/L$ , HCT8,  $IC_{50} = 37.8\mu mol/L$ , Doxorubicin,  $IC_{50} = 0.024\mu mol/L$ , MCF7,  $IC_{50} = 35.6\mu mol/L$ , Doxorubicin,  $IC_{50} = 0.183\mu mol/L$ , B16,  $IC_{50} > 78.1\mu mol/L$ , Doxorubicin,  $IC_{50} = 0.056\mu mol/L$ ). **Source:** *Aegiphila thotzkiana* (root). **Ref:** 4940.

**21232 Teysmannic acid**

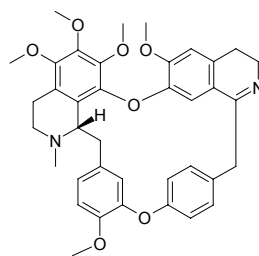
3-(3'-Carboxybutyl)-4-methoxyxanthone  $C_{19}H_{18}O_5$  (326.35). Viscous liquid. **Source:** TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). **Ref:** 3937.

**21233 Thailandiol**

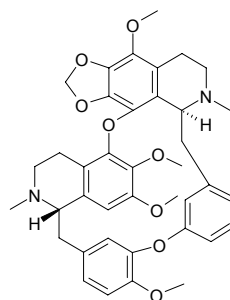
$C_{30}H_{48}O_3$  (456.72). Colorless needles, mp 75.5~76.4°C (MeOH),  $[\alpha]_{589nm}^{30} = +40^\circ$  ( $c = 0.15$ , MeOH). **Pharm:** Anti-HIV-1 (syncytium assay:  $IC_{50} = 33.4\mu g/mL$ ,  $EC_{50} = 14.2\mu g/mL$ ; HIV-1 RT assay: 200 $\mu g/mL$ , InRt = 61.5%,  $IC_{50} = 156.8\mu g/mL$ , Fagaronine chloride  $IC_{50} = 10.9\mu g/mL$ , Nevirapine  $IC_{50} = 1.8\mu g/mL$ ). **Source:** TAI GUO ZHI ZI *Gardenia thailandica* (leaf and twig). **Ref:** 4963.

**21234 Thalcimine**

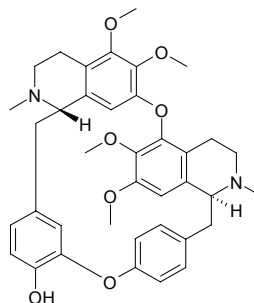
Thalsimine  $C_{38}H_{40}N_2O_7$  (636.75). mp 140~142°C. **Pharm:** Analgesic; antineoplastic (mus and rat, lymphatic carcinoma NK/CY, hepatoma PC-1 and lymphatic sarcoma); anti-inflammatory; antihypertensive (anesthetic cat, 1~5mg/kg iv, blood pressure is lowered by 2.67~10.00kPa); antipyretic (mus, 1000mg/kg, sc, body temperature lowers by 2.5~2.7°C in 2h and 5.5~6.0°C in 18h); nootropic (mus, maze model, reduces completion time); sedative (mus, 500mg/kg sc, potentiates hypnotic effect of cyclobarbital by factor of 2); LD (anesthetic cat) = 10mg/kg. **Source:** MA WEI LIAN *Thalictrum foliolosum*, YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*], ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 5, 6, 658.

**21235 Thalfinine**

Thalpinine  $C_{39}H_{42}N_2O_8$  (666.78). Amorphous solid, mp 117~119°C,  $[\alpha]_D^{26} = +141^\circ$  ( $c = 0.25$ , methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, 50 $\mu g/mL$ ); antihypertensive (rbt, 0.1~1.0mg/kg iv, blood pressure lowers by 1.33~3.07kPa and the action lasts 0.5min). **Source:** XIANG TANG SONG CAO *Thalictrum foetidum*, XIAO TANG SONG CAO *Thalictrum minus*, DA YE TANG SONG CAO *Thalictrum faberi*. **Ref:** 6, 660, 661.

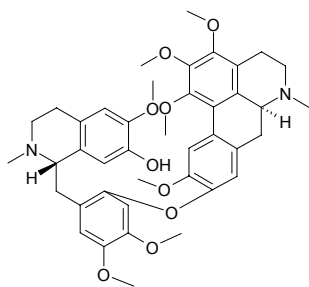
**21236 Thalfoidine**

$C_{38}H_{42}N_2O_7$  (638.77). mp 168~170°C. **Pharm:** Antibacterial (*Mycobacterium tuberculosis*, EC (without serum) = 62.5 $\mu g/mL$ , EC (with serum) = 125 $\mu g/mL$ ); antineoplastic (rat  $W_{256}$  and mus Lewis lung cancer). **Source:** XIANG TANG SONG CAO *Thalictrum foetidum*. **Ref:** 6, 658, 660.

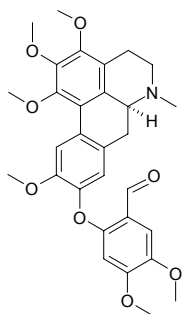


**21237 Thaliadanine**

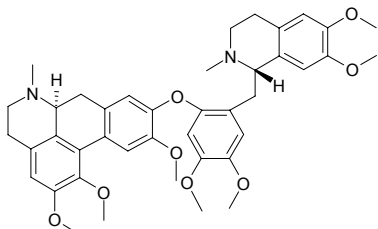
$C_{41}H_{48}N_2O_9$  (712.85). Amorphous solid,  $[\alpha]_D^{26} = +81^\circ$  ( $c = 0.41$ , methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, MIC = 100 $\mu$ g/mL); antihypertensive (rbt, 0.1mg/kg, blood pressure lowers by 2.00kPa and the action lasts 1.5min). **Source:** XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 661.

**21238 Thaliadine**

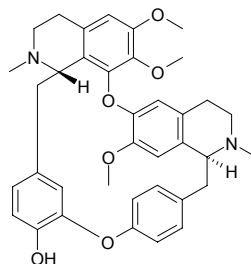
$C_{30}H_{33}NO_8$  (353.60). Yellow petaline crystals (methanol), mp 143.5–144.5°C,  $[\alpha]_D^{26} = 0^\circ$  ( $c = 0.22$ , chloroform or methanol). **Pharm:** Antihypertensive (rbt, 0.1mg/kg, blood pressure lowers by 2.93–3.59kPa and the action lasts 2.0–3.5min). **Source:** XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 661.

**21239 Thalicarpine**

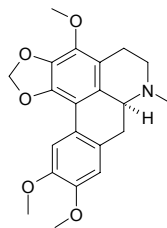
$C_{41}H_{48}N_2O_8$  (696.85). Acicular crystals (ethyl acetate), mp 160–161°C,  $[\alpha]_D^{25} = +133^\circ$  ( $c = 0.83$ , methanol),  $[\alpha]_D^{25} = +89^\circ$  ( $c = 0.88$ , chloroform). **Pharm:** Antibacterial (*Mycobacterium* sp., MIC = 100 $\mu$ g/mL; *Staphylococcus aureus*, MIC = 1mg/mL); antineoplastic (rat  $W_{256}$ , InRt = 90%; mus Lewis lung cancer, InRt = 74%; mus EAC, 250mg/kg ip, biotic prolonged rate = 114%; mus, ascites lymphoma, 250mg/kg ip, biotic prolonged rate = 137.2%); antifungal (*Candida albicans*, MIC = 1mg/mL); cytotoxic (HeLa,  $ED_{50} = 5\mu$ mol/L); inhibits cardiac muscles (dog and monkey, iv, *in vivo*, reduces myocardial contractility and slows heart rate); antihypertensive (vasodilator, dog and monkey, *in vivo*). **Source:** CU GUO TANG SONG CAO *Thalictrum dasycarpum*, HUANG TANG SONG CAO *Thalictrum flavum*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, YI XING TANG SONG CAO *Thalictrum dioicum*, ZA XING TANG SONG CAO *Thalictrum polygamum*. **Ref:** 661.

**21240 Thalicerberine**

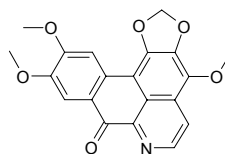
[602-83-5]  $C_{37}H_{40}N_2O_6$  (608.74). Needles, +1H<sub>2</sub>O, mp 161°C,  $[\alpha]_D = +231.2^\circ$ ,  $[\alpha]_D^{25} = +210^\circ$  ( $c = 0.02$ , MeOH). **Pharm:** Antineoplastic (mus, EAC, 62.5mg/mL, biotic prolonged rate = 50%); cytotoxic (HeLa, *in vitro*,  $ED_{50} = 13\mu$ g/mL). **Source:** TOU MING TANG SONG CAO *Thalictrum lucidum*, XIAO TANG SONG CAO *Thalictrum minus*, YAN GUO CAO *Thalictrum thunbergii* (in 1959, the compound was isolated from the plant)<sup>[5505]</sup>. **Ref:** 6, 1521, 1791, 5505.

**21241 Thalicine**

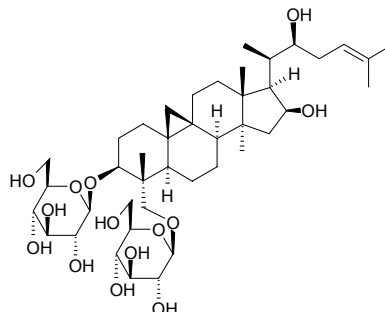
Ocoteine [3246-21-7]  $C_{21}H_{23}NO_5$  (369.42). mp 137–138°C. **Source:** YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*]. **Ref:** 5, 6.

**21242 Thalicinine**

$C_{20}H_{15}NO_6$  (365.35). mp 263–265°C (chloroform), 274–275°C (chloroform-ethanol). **Source:** YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*]. **Ref:** 6.

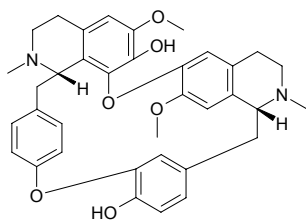
**21243 Thalicoside A**

$C_{42}H_{70}O_{14}$  (799.02). **Pharm:** Antineoplastic. **Source:** XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 658.

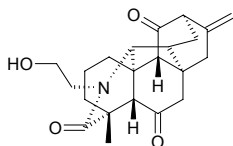


**21244 Thalicerine**

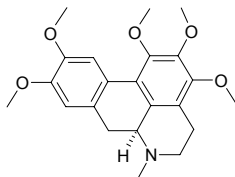
$C_{36}H_{38}N_2O_6$  (594.71). Source: YAN GUO CAO *Thalictrum thunbergii*. Ref: 6.

**21245 Thalicesesine**

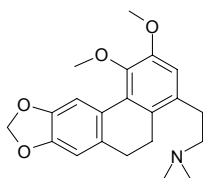
$C_{22}H_{27}NO_4$  (369.47). Pharm: Analgesic; anti-inflammatory. Source: WU BING TANG SONG CAO *Thalictrum sessile*. Ref: 658.

**21246 Thalicsimidine**

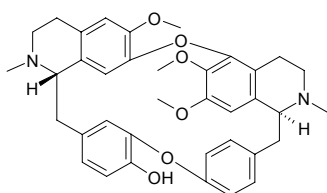
Purpureine [19775-47-4]  $C_{22}H_{27}NO_5$  (385.46). Crystals ( $Me_2CO$ ), mp 131~132°C,  $[\alpha]_D = +66.9^\circ$  ( $c = 1.42$ , EtOH). Source: BI ZHI TANG SONG CAO *Thalictrum strictum*, DUN YE TANG SONG CAO *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], GAO YUAN TANG SONG CAO *Thalictrum cultratum*, HUA TANG SONG CAO *Thalictrum filamentosum*, XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content = 0.184%<sup>[5508]</sup>), YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*], ZI FAN LI ZHI *Annona purpurea*, *Phoebe mollicella*. Ref: 6, 1521, 2981, 3111, 3116, 5508.

**21247 Thalietherine**

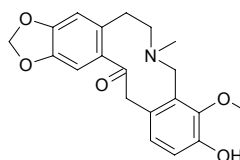
$C_{21}H_{25}NO_4$  (355.44). mp 126~127°C. Source: YAN GUO CAO *Thalictrum thunbergii*. Ref: 6.

**21248 Thalictine**

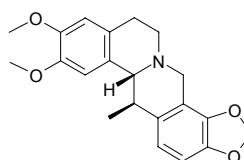
$C_{37}H_{40}N_2O_6$  (608.74). Source: GAO YUAN TANG SONG CAO *Thalictrum cultratum*, YAN GUO CAO *Thalictrum thunbergii*. Ref: 660.

**21249 Thalicticine**

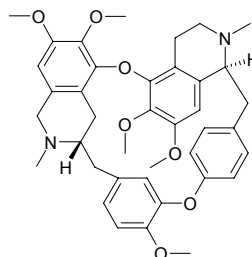
Thalicticine  $C_{20}H_{21}NO_5$  (355.39). mp 261~263°C. Source: YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*]. Ref: 6.

**21250 Thalictrifoline**

$C_{21}H_{23}NO_4$  (353.42). Source: YAN HUANG LIAN *Corydalis thalictrifolia*. Ref: 660.

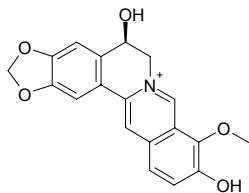
**21251 Thalidasine**

$C_{39}H_{44}N_2O_7$  (652.79). Yellowish amorphous solid, mp 105~107°C,  $[\alpha]_D^{27} = -70^\circ$  ( $c = 0.89$ , methanol). Pharm: Antibacterial (*Staphylococcus* sp., *Streptococcus faecalis*, *Bacillus coli*, *Bacillus pneumoniae*, *Bacillus pyocyaneus*, *Bacillus septicus*, *Bacillus dysenteriae*, *Bacillus proteus*, *Salmonella typhimurium* and *Salmonella gallinarum*, MIC = 100µg/mg, *Bacillus mycoides*, MIC = 25µg/mL, *Mycobacterium smegmatis*, *in vivo*); antineoplastic (rat  $W_{256}$ , ED = 200mg/kg; mus EAC, 70mg/(kg·d), InRt = 50%; mus  $S_{180}$ , 70mg/(kg·d), InRt = 50%; mus Lewis lung cancer, 100mg/(kg·d), InRt = 58%); antihypertensive (rbt, 4mg/kg iv, *in vivo*, blood pressure lowers by 2.40kPa and the action lasts 3min); used in treatment of cancer of stomach; LD<sub>50</sub> (mus, ip) = 520mg/kg, (mus, iv) = 120mg/kg. Source: CHENG KOU TANG SONG CAO *Thalictrum fargesii* (root: content = 0.196%<sup>[5508]</sup>), CU GUO TANG SONG CAO *Thalictrum dasycarpum*, DA YE TANG SONG CAO *Thalictrum faberi*, GAO SHAN TANG SONG CAO *Thalictrum alpinum*, TOU MING TANG SONG CAO *Thalictrum lucidum*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, XIAO TANG SONG CAO *Thalictrum minus*, ZHAN ZHI TANG SONG CAO *Thalictrum squarrosum* (root: mean content of 3 origins = 0.108%<sup>[5508]</sup>), ZOU WEN TANG SONG CAO *Thalictrum rugosum*. Ref: 661, 658, 5508.

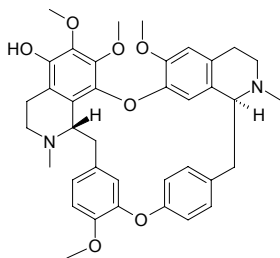


**21252 Thalidastine**

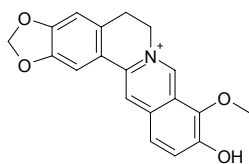
$C_{19}H_{17}NO_5$  (339.35). Source: NAN TIAN ZHU GENG *Nandina domestica*, XIANG TANG SONG CAO *Thalictrum foetidum*. Ref: 660.

**21253 Thalidezine**

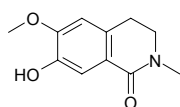
$C_{38}H_{42}N_2O_7$  (638.77). mp 158~159°C. Pharm: Antibacterial (*Bacillus pneumoniae* and *Mycobacterium* sp.); antifungal (*Candida albicans*, MIC = 100µg/mL). Source: BAN RUI TANG SONG CAO *Thalictrum petaloideum* (root: content < 0.001%)<sup>[5508]</sup>, BING GUO TANG SONG CAO *Thalictrum podocarpum*, DA YE TANG SONG CAO *Thalictrum faberi* (root: content < 0.001%)<sup>[5508]</sup>, FEN SHI TANG SONG CAO *Thalictrum fendleri*, JIN SI MA WEI LIAN *Thalictrum glandulosissimum* (root: content < 0.005%)<sup>[5508]</sup>, MA WEI LIAN *Thalictrum foliolosum* (root: content = 0.50%)<sup>[5508]</sup>, XIA XU TANG SONG CAO *Thalictrum atriplex* (root: content < 0.001%)<sup>[5508]</sup>, XIAO GUO TANG SONG CAO *Thalictrum microgynum* (root: content < 0.001%)<sup>[5508]</sup>, YAN GUO CAO *Thalictrum thunbergii* (root: content = 0.16%)<sup>[5508]</sup>, YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (root: content < 0.001%)<sup>[5508]</sup>. Ref: 6, 658, 5508.

**21254 Thalifendine**

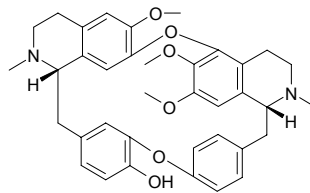
[18207-71-1]  $C_{19}H_{16}NO_4$  (322.34). Source: HE NAN TANG SONG CAO *Thalictrum honanense*, MA WEI LIAN *Thalictrum foliolosum*. Ref: 537, 660.

**21255 Thalifoline**

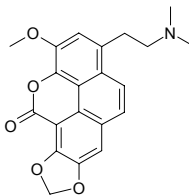
$C_{11}H_{13}NO_3$  (207.23). Source: JI YING SU *Argemone mexicana*, BIAN FU GE GEN *Menispermum dauricum*, CHANG YE HOU KE GUI *Cryptocarya longifolia* (leaf, stem, root and fruit), TIE XIAN JUE YE TANG SONG CAO *Thalictrum minus* var. *adiantifolium* (root). Ref: 660, 1521, 3792.

**21256 Thalifortine**

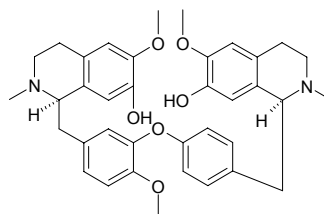
$C_{37}H_{40}N_2O_6$  (608.74). Source: HUA DONG TANG SONG CAO *Thalictrum fortunei* Ref: 660.

**21257 Thaligluconone**

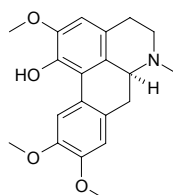
$C_{21}H_{19}NO_5$  (365.39). Yellow acicular crystals (methanol), mp 197°C; 190~191°C, 115°C melts then resolidifies, 188~190°C, melts again. Pharm: Antibacterial (*Staphylococcus aureus*, *Bacillus coli* and *Bacillus pneumoniae*, MIC = 100µg/mL, *Mycobacterium smegmatis*, MIC = 25µg/mL); antifungal (*Candida albicans*, MIC = 50µg/mL); antihypertensive (dog, 1.0mg/kg, blood pressure lowers by 4.00kPa, rbt). Source: BING GUO TANG SONG CAO *Thalictrum podocarpum*, LV TANG SONG CAO *Thalictrum glaucum*, TOU MING TANG SONG CAO *Thalictrum lucidum*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, XIAO TANG SONG CAO *Thalictrum minus*, ZA XING TANG SONG CAO *Thalictrum polygamum*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. Ref: 661.

**21258 (+)-Thaligrisine**

$C_{37}H_{42}N_2O_6$  (610.76). Pharm: Mitochondrial respiratory chain complex I inhibitor (IC<sub>50</sub> = (1.27±0.18)µmol/L, Rolliniastatin-1, IC<sub>50</sub> = (0.6±0.04)nmol/L, Rotenone, IC<sub>50</sub> = (5.10±0.90)nmol/L)<sup>[4954]</sup>. Source: GE LUN BI YA MU BAN SHU *Xylopia columbiana* (fruit). Ref: 4954.

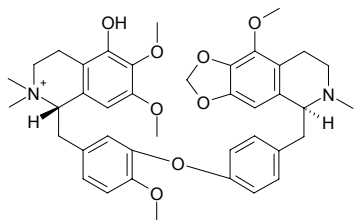
**21259 Thaliporphine**

$C_{20}H_{23}NO_4$  (341.41). Source: DUN YE TANG SONG CAO *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*], GAO SHAN TANG SONG CAO *Thalictrum alpinum*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. Ref: 660.

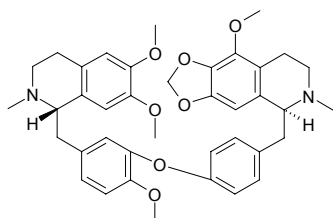


**21260 Thalirabine**

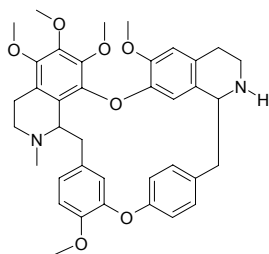
$C_{40}H_{47}N_2O_8^+$  (683.83). Hydroxide, cream-colored amorphous solid, mp 131~132°C (dec),  $[\alpha]_D^{26} = +142^\circ$  ( $c = 0.548$ , methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, EC = 100 $\mu$ g/mL); antihypertensive. **Source:** XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 661.

**21261 Thaliracebine**

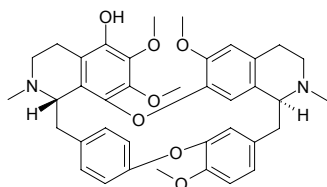
$C_{39}H_{44}N_2O_7$  (652.79). Amorphous solid, mp 83~84°C,  $[\alpha]_D^{26} = +121^\circ$  ( $c = 0.28$ , methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, EC = 100 $\mu$ g/mL); antihypertensive (rbt, 0.1mg/kg iv, blood pressure lowers by 2.67~2.93kPa and the action lasts 0.5min). **Source:** DA YE TANG SONG CAO *Thalictrum faberi*, XIAO TANG SONG CAO *Thalictrum minus*. **Ref:** 661.

**21262 Thaliamine**

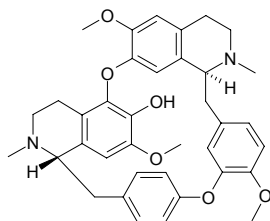
$C_{38}H_{42}N_2O_7$  (638.77). mp 191~194°C. **Source:** YING SHUI HUANG LIAN *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*]. **Ref:** 6.

**21263 Thalispine**

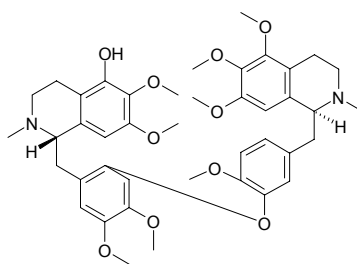
$C_{38}H_{42}N_2O_7$  (638.77). Colorless acicular crystals (water-methanol), mp 151~153°C, 143~145°C,  $[\alpha]_D = -109^\circ$  ( $c = 0.17$ , methanol). **Pharm:** Antiarrhythmic (animal, induced by aconitine); antispasmodic (rbt and rat intestine); inhibits cardiac fibrillation (animal, induced by electrostimulation, 10mg/kg iv); CNS depressant (mus); antihypertensive (dog, cat and rbt); LD (rat, orl, death on third day) = 612mg/kg. **Source:** MA WEI LIAN *Thalictrum foliolosum*, ZI JIN YE TANG SONG CAO *Thalictrum isopyroides*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 658.

**21264 Thalmine**

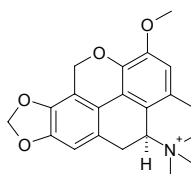
$C_{37}H_{40}N_2O_6$  (608.74). Crystals (50% ethanol), mp 140~142°C,  $[\alpha]_D^{25} = +36.1^\circ$  ( $c = 0.92$ , ethanol). **Pharm:** Antineoplastic (rat and mus, ascites lymphoma, *in vivo*); anti-inflammatory (animal model). **Source:** *Thalictrum* sp. **Ref:** 658.

**21265 Thalmineline**

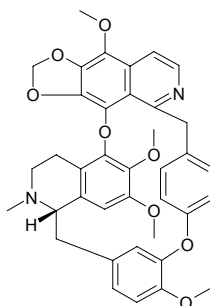
$C_{45}H_{52}N_2O_{10}$  (744.89). **Source:** GAO YUAN TANG SONG CAO *Thalictrum cultratum*, E MEI TANG SONG CAO *Thalictrum omeiense*. **Ref:** 660.

**21266 Thalphenine**

$C_{21}H_{22}NO_4^+$  (352.39). Chloride: colorless acicular crystals (acetone-methanol), mp 186~187°C (dec),  $[\alpha]_D = +69^\circ$  ( $c = 1.3$ , ethanol); bitter acid salt: mp 180~182°C (dec). **Pharm:** Antibacterial (*Staphylococcus aureus* and *Mycobacterium smegmatis*, MIC = 1000 $\mu$ g/mL); antifungal (*Candida albicans*, MIC = 1000 $\mu$ g/mL). **Source:** TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, XIAO TANG SONG CAO *Thalictrum minus*, ZA XING TANG SONG CAO *Thalictrum polygamum*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 661.

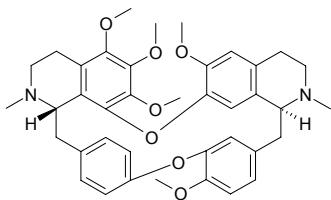
**21267 Thalphine**

$C_{38}H_{36}N_2O_8$  (648.72). **Source:** XIANG TANG SONG CAO *Thalictrum foetidum*. **Ref:** 6, 660.

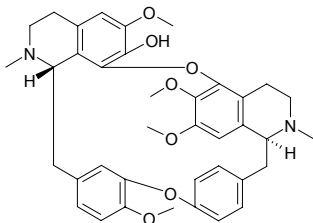


**21268 Thalrugosaminine**

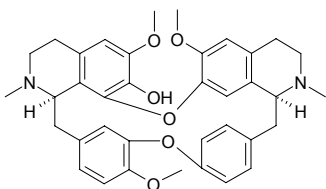
$C_{39}H_{44}N_2O_7$  (652.79). Yellowish amorphous solid, mp 103~105°C,  $[\alpha]_D^{25} = -90.4^\circ$  ( $c = 0.104$ , methanol). **Pharm:** Antibacterial (*Mycobacterium smegmatis*, MIC = 50µg/mL); antihypertensive (rbt). **Source:** GAO SHAN TANG SONG CAO *Thalictrum alpinum*, MA WEI LIAN *Thalictrum foliolosum*, WAI JUAN TANG SONG CAO *Thalictrum revolutum*, XIAO TANG SONG CAO *Thalictrum minus*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 661.

**21269 Thalrugosidine**

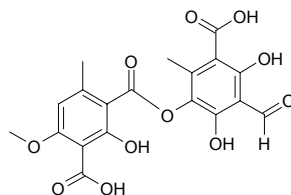
$C_{38}H_{42}N_2O_7$  (638.77). Colorless acicular crystals (methanol), mp 172~174°C,  $[\alpha]_D^{30} = -185^\circ$  (methanol). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Streptococcus faecalis*, *Bacillus coli*, *Bacillus pneumoniae*, *Bacillus pyocyaneus*, *Bacillus dysenteriae*, *Bacillus proteus*, *Bacillus septicus*, *Mycobacterium smegmatis* and *Salmonella typhimurium*, MIC = 100µg/mL). **Source:** GAO SHAN TANG SONG CAO *Thalictrum alpinum*, MA WEI LIAN *Thalictrum foliolosum*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 661.

**21270 Thalrugosine**

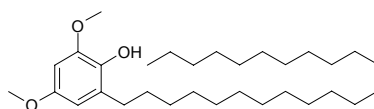
$C_{37}H_{40}N_2O_6$  (608.74). Colorless acicular crystals (absolute ether), mp 216~218°C,  $[\alpha]_D^{30} = +128^\circ$  (methanol),  $[\alpha]_D^{21} = +162.9^\circ$  ( $c = 1.16$ , methanol). **Pharm:** Antibacterial (*Staphylococcus aureus*, *Streptococcus faecalis*, *Bacillus coli*, *Bacillus pneumoniae*, *Bacillus pyocyaneus*, *Bacillus dysenteriae*, *Bacillus proteus*, *Bacillus septicus*, *Mycobacterium smegmatis* and *Salmonella typhimurium*, MIC = 100µg/mL); antifungal (*Candida albicans*, MIC = 100µg/mL); antihypertensive (dog, 0.5mg/kg and 1.0mg/kg, blood pressure lowered by 1.33kPa and 6.90kPa respectively). **Source:** PU FU SHI DA GONG LAO *Mahonia repens*, TOU MING TANG SONG CAO *Thalictrum lucidum*, XIAO TANG SONG CAO *Thalictrum minus*, YIN BU HUAN *Cyclea barbata*, ZOU WEN TANG SONG CAO *Thalictrum rugosum*. **Ref:** 661.

**21271 Thamnic acid**

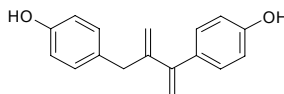
$C_{19}H_{16}O_{11}$  (420.33). mp 223°C. **Source:** XUE CHA *Thamnia vermicularis*. **Ref:** 6.

**21272 Thamnin**

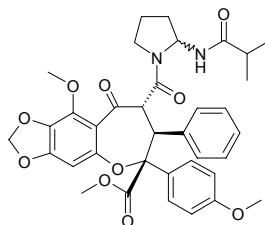
$C_{31}H_{56}O_3$  (476.79). Amorphous substance. **Source:** XUE CHA *Thamnia vermicularis*. **Ref:** 2256.

**21273 Thannilignan**

$C_{17}H_{16}O_2$  (252.32). **Source:** WEI MAO HE ZI *Terminalia chebula* var. *tomentella*. **Ref:** 2268.

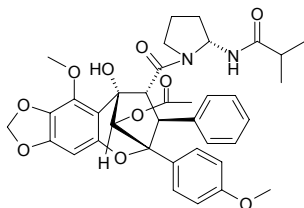
**21274 Thapoxepine A**

(+)-(2*R*,3*S*,4*R*,2'*RS*)-1-[2,3,4,5-Tetrahydro-2-methoxycarbonyl-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-5-oxo-3-phenyl-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine  $C_{36}H_{38}N_2O_{10}$  (658.71). Epimeric mixture of (2'*S*:2'*R* = 2:1),  $[\alpha]_D^{20} = +55^\circ$  ( $c = 0.6$ ,  $CHCl_3$ ). **Pharm:** Insecticidal inactive (neonate larvae of *Spodoptera littoralis*, survival rate  $LC_{50} > 50\mu\text{g/g}$ , control Azadirachtin, survival rate  $LC_{50} = 6.1\mu\text{g/g}$ ; growth inhibition  $EC_{50} > 50\mu\text{g/g}$ , Azadirachtin, growth inhibition  $EC_{50} = 0.11\mu\text{g/g}$ ). **Source:** KE SHI MI ZI LAN *Aglaia edulis*. **Ref:** 2355.

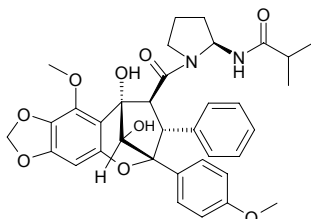


**21275 Thapsakin A 10-O-acetate**

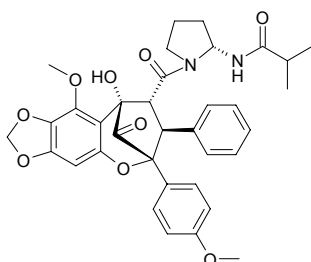
(-)-(2*R*,3*S*,4*R*,5*R*,10*S*,2'*S*)-1-[2,3,4,5-Tetrahydro-10-acetyloxy-5-hydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine C<sub>37</sub>H<sub>40</sub>N<sub>2</sub>O<sub>10</sub> (672.74). mp. 150~152°C, [α]<sub>D</sub><sup>20</sup> = -24° (c = 0.5, CHCl<sub>3</sub>). **Pharm:** Insecticidal inactive (neonate larvae of *Spodoptera littoralis*, survival rate LC<sub>50</sub> > 50μg/g, control Azadirachtin, survival rate LC<sub>50</sub> = 6.1μg/g; growth inhibition EC<sub>50</sub> > 50μg/g, Azadirachtin, growth inhibition EC<sub>50</sub> = 0.11μg/g). **Source:** KE SHI MI ZI LAN *Aglaia edulis*. **Ref:** 2355.

**21276 Thapsakin B**

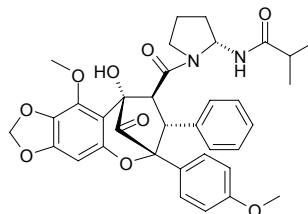
(+)-(2*R*,3*R*,4*S*,5*R*,10*S*,2'*R**S*)-1-[2,3,4,5-Tetrahydro-5,10-dihydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine [250161-87-6] C<sub>35</sub>H<sub>38</sub>N<sub>2</sub>O<sub>9</sub> (630.70). [α]<sub>D</sub><sup>20</sup> = +24° (c = 0.4, CHCl<sub>3</sub>). **Source:** KE SHI MI ZI LAN *Aglaia edulis*. **Ref:** 2355.

**21277 Thapsakone A**

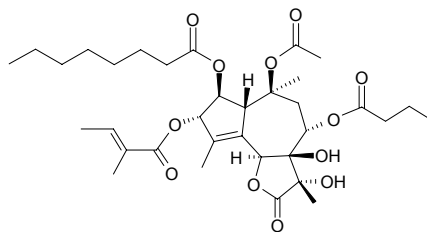
(+)-(2*R*,3*S*,4*R*,5*R*,2'*S*)-1-[2,3,4,5-Tetrahydro-5-hydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-10-oxo-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine C<sub>35</sub>H<sub>36</sub>N<sub>2</sub>O<sub>9</sub> (628.69). [α]<sub>D</sub><sup>20</sup> = +23° (c = 0.6, CHCl<sub>3</sub>). **Source:** KE SHI MI ZI LAN *Aglaia edulis*. **Ref:** 2355.

**21278 Thapsakone B**

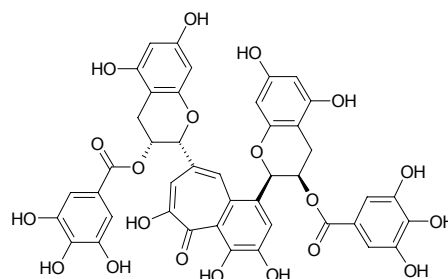
(+)-(2*R*,3*R*,4*S*,5*R*,2'*S*)-1-[2,3,4,5-Tetrahydro-5-hydroxy-2-(4-methoxyphenyl)-6-methoxy-7,8-methylenedioxy-10-oxo-3-phenyl-2,5-methano-1-benzoxepin-4-carbonyl]-2-(2-methylpropanoylamino)-pyrrolidine C<sub>35</sub>H<sub>36</sub>N<sub>2</sub>O<sub>9</sub> (628.69). [α]<sub>D</sub><sup>20</sup> = +8° (c = 0.2, CHCl<sub>3</sub>). **Source:** KE SHI MI ZI LAN *Aglaia edulis*. **Ref:** 2355.

**21279 Thapsigargin**

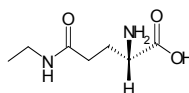
C<sub>34</sub>H<sub>50</sub>O<sub>12</sub> (650.77). **Pharm:** Activates basophilic cells; activates mastocytes; activates neutrophilic granulocytes (during inflammatory reaction). **Source:** DU HU LUO BO *Thapsia garganica*. **Ref:** 658.

**21280 Theaflavin 3,3'-digallate**

C<sub>43</sub>H<sub>32</sub>O<sub>20</sub> (868.72). **Pharm:** Anti-inflammatory (NO production inhibitor)<sup>[44][51]</sup>. **Source:** WU LONG CHA *Camellia sinensis* var. *viridis*. **Ref:** 1521. 4415.

**21281 Theanine**

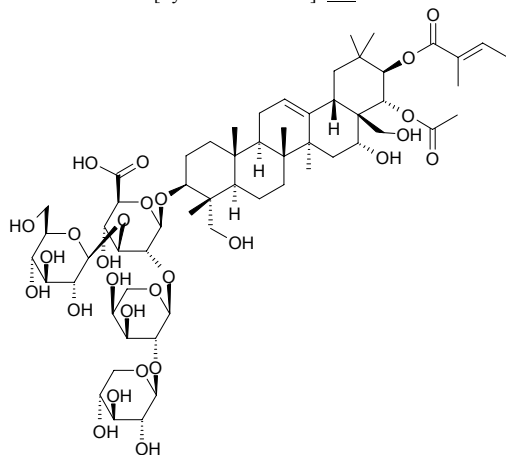
C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub> (174.20). mp 217~218°C (dec). **Source:** CHA ZI XIN *Camellia oleifera*, CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*], YOU CHA GEN PI *Camellia oleifera*. **Ref:** 6.



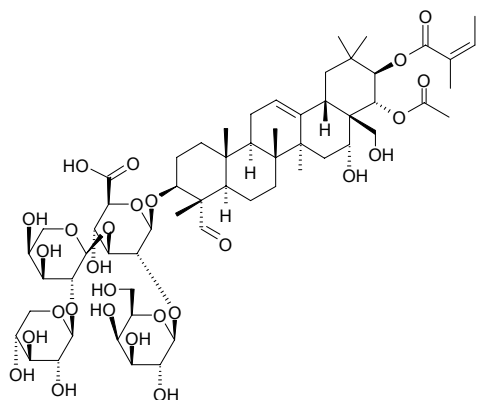


**21282 Theasaponin**

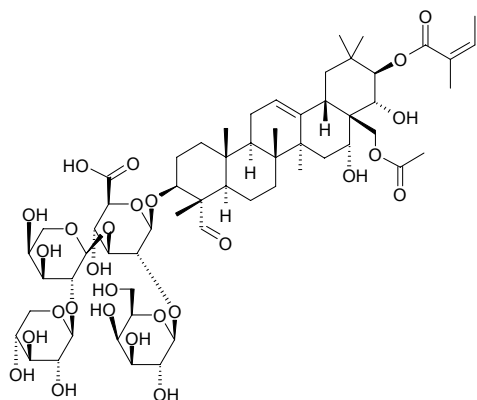
$C_{59}H_{92}O_{27}$  (1233.37). **Pharm:** Hemolytic; anti-exudation. **Source:** CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 658.

**21283 Theasaponin E<sub>1</sub>**

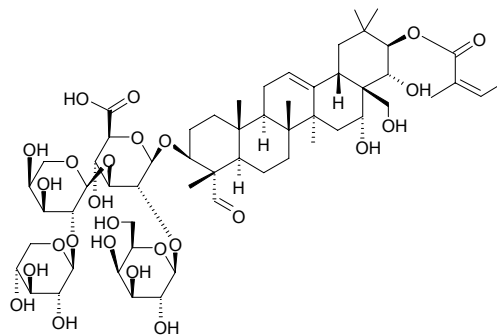
$C_{59}H_{90}O_{27}$  (1231.36). **Pharm:** Inhibits ethanol-induced gastric mucosal lesions (rat, 5.0mg/kg, orl). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

**21284 Theasaponin E<sub>2</sub>**

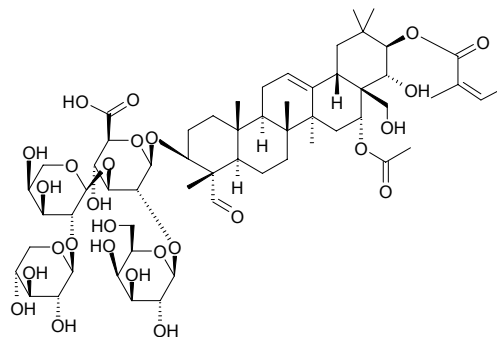
$C_{59}H_{90}O_{27}$  (1231.36). **Pharm:** Inhibits ethanol-induced gastric mucosal lesions (rat, 5.0mg/kg, orl). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

**21285 Theasaponin E<sub>3</sub>**

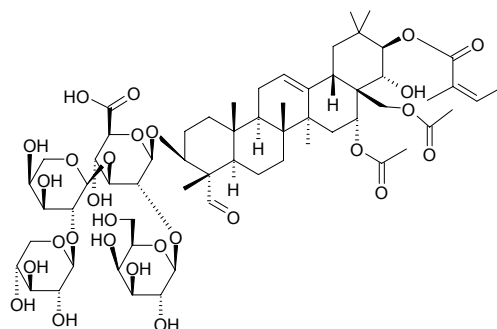
21-*O*-Angeloyltheasa-21-*O*-angeloyltheasapogenol E 3-*O*-β-*D*-galactopyranosyl(1→2)[β-*D*-xylopyranosyl(1→2)-α-*L*-arabinopyranosyl(1→3)]-β-*D*-glucopyranosiduronic acid  $C_{57}H_{88}O_{26}$  (1189.32). Colorless fine crystals (CHCl<sub>3</sub>-MeOH), mp 214.4~215.5°C,  $[\alpha]_D^{27} = +17.0^\circ$  ( $c = 0.95$ , MeOH). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

**21286 Theasaponin E<sub>4</sub>**

16-*O*-Acetyl-21-*O*-angeloyltheasapogenol E 3-*O*-β-*D*-galactopyranosyl(1→2)[β-*D*-xylopyranosyl(1→2)-α-*L*-arabinopyranosyl(1→3)]-β-*D*-glucopyranosiduronic acid  $C_{59}H_{90}O_{27}$  (1231.36). Colorless fine crystals (CHCl<sub>3</sub>-MeOH), mp 238.8~224.3°C,  $[\alpha]_D^{27} = +17.4^\circ$  ( $c = 1.00$ , MeOH). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

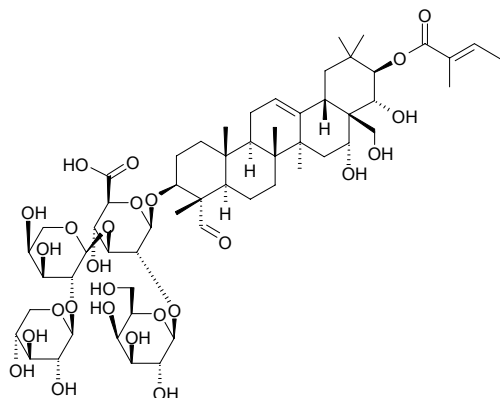
**21287 Theasaponin E<sub>5</sub>**

16,28-Di-*O*-acetyl-21-*O*-angeloyltheasapogenol E 3-*O*-β-*D*-galactopyranosyl(1→2)[β-*D*-xylopyranosyl(1→2)-α-*L*-arabinopyranosyl(1→3)]-β-*D*-glucopyranosiduronic acid  $C_{61}H_{92}O_{28}$  (1273.40). Colorless fine crystals (CHCl<sub>3</sub>-MeOH), mp 216.2~216.4°C,  $[\alpha]_D^{27} = +21.5^\circ$  ( $c = 1.00$ , MeOH). **Pharm:** Inhibits ethanol-induced gastric mucosal lesions (rat, 5.0mg/kg, orl). **Source:** CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. **Ref:** 4537.

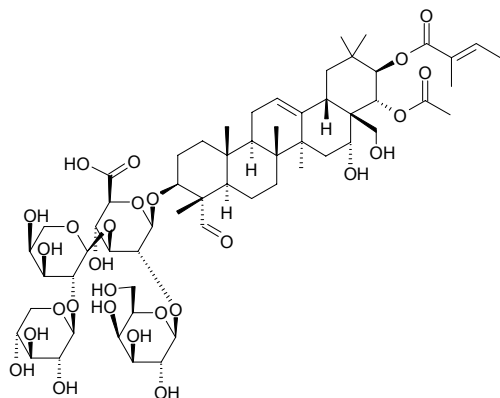


**21288 Theasaponin E<sub>6</sub>**

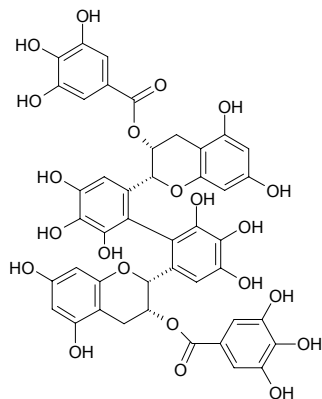
21-*O*-Tigloyltheasapogenol E 3-*O*-β-*D*-galactopyranosyl(1→2)[β-*D*-xylopyranosyl(1→2)-α-*L*-arabinopyranosyl(1→3)]-β-*D*-glucopyranosiduronic acid C<sub>57</sub>H<sub>88</sub>O<sub>26</sub> (1189.32). Colorless fine crystals (CHCl<sub>3</sub>-MeOH), mp 209.1~210.0°C, [α]<sub>D</sub><sup>27</sup> = +18.2° (c = 1.50, MeOH). Source: CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 4537.

**21289 Theasaponin E<sub>7</sub>**

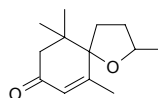
21-*O*-Tigloyl-22-*O*-acetyltheasapogenol E 3-*O*-β-*D*-galactopyranosyl(1→2)[β-*D*-xylopyranosyl(1→2)-α-*L*-arabinopyranosyl(1→3)]-β-*D*-glucopyranosiduronic acid C<sub>59</sub>H<sub>90</sub>O<sub>27</sub> (1231.36). Colorless fine crystals (CHCl<sub>3</sub>-MeOH), mp 196.4~198.0°C, [α]<sub>D</sub><sup>27</sup> = +10.9° (c = 3.00, MeOH). Source: CHA ZI *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 4537.

**21290 Theasinensin A**

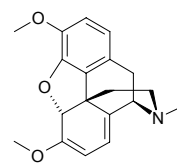
C<sub>44</sub>H<sub>34</sub>O<sub>22</sub> (914.75). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 658.

**21291 Theaspirone**

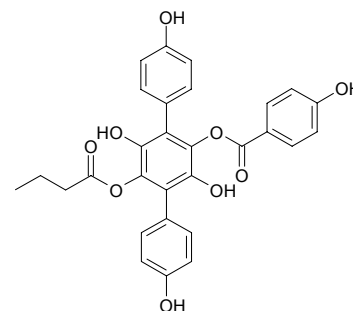
C<sub>13</sub>H<sub>20</sub>O<sub>2</sub> (208.30). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 6.

**21292 Thebaine**

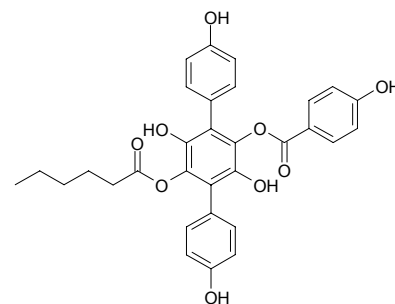
[115-37-7] C<sub>19</sub>H<sub>21</sub>NO<sub>3</sub> (311.38). mp 193°C. Pharm: Analgesic (habit forming); anesthetic; CNS depressant (low dose); paralyzes respiration (high dose); spasmogenic (high dose); LD<sub>50</sub> (mus, ip) = 20mg/kg, (mus, sc) = 31mg/kg, (rbt, sc) = 14mg/kg. Source: LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], YA PIAN *Papaver somniferum*, YING SU *Papaver somniferum*, YING SU KE *Papaver somniferum*. Ref: 6, 658.

**21293 Thelephantin A**

C<sub>29</sub>H<sub>24</sub>O<sub>9</sub> (516.51). Grayish solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 2038.

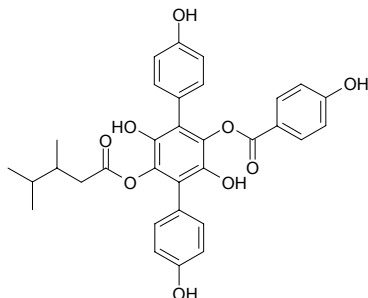
**21294 Thelephantin B**

C<sub>31</sub>H<sub>28</sub>O<sub>9</sub> (544.56). Grayish solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 2038.

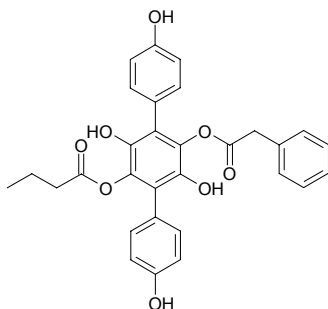


**21295 Thelephantin C**

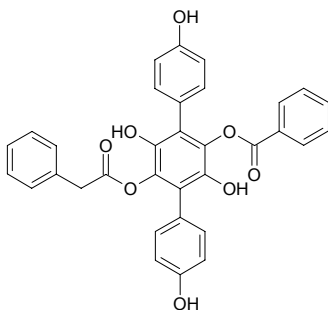
$C_{32}H_{30}O_9$  (558.58). Grayish solid,  $[\alpha]_D^{20} = +3.75^\circ$  ( $c = 1.01$ , MeOH). Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 2038.

**21296 Thelephantin D**

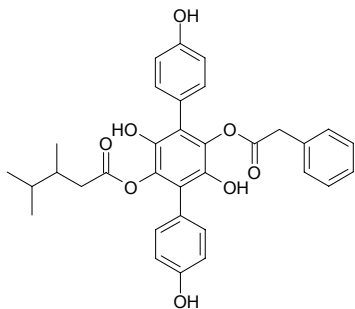
$C_{30}H_{26}O_8$  (514.54). Light red brown solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21297 Thelephantin E**

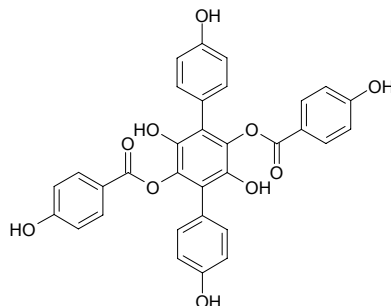
$C_{33}H_{24}O_8$  (548.55). Light red brown solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21298 Thelephantin F**

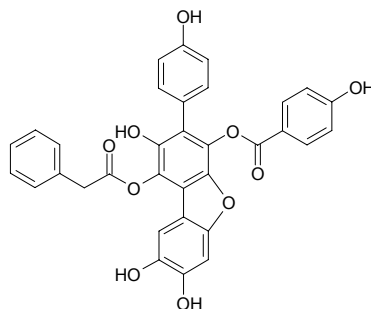
$C_{33}H_{32}O_8$  (556.62). Grayish solid,  $[\alpha]_D^{20} = +2.93^\circ$  ( $c = 0.82$ ,  $CH_3OH$ ). Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21299 Thelephantin G**

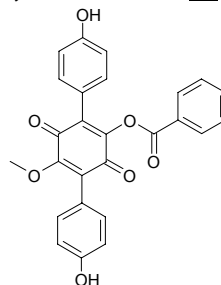
$C_{32}H_{22}O_{10}$  (556.53). Light green brown solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21300 Thelephantin H**

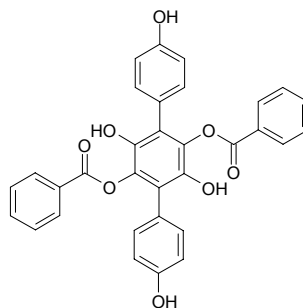
$C_{33}H_{22}O_{10}$  (578.54). Grayish solid. Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21301 Thelephantin I**

4,4''-Dihydroxy-2'-benzoyloxy-5'-methoxy [1,1':4',1''-terphenyl]-3',6'-dione  $C_{26}H_{18}O_7$  (442.43). Reddish orange solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

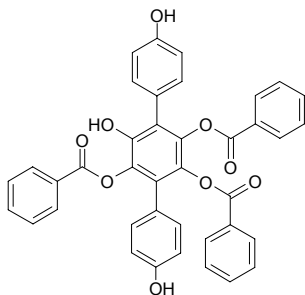
**21302 Thelephantin J**

3',4,4'',6'-Tetrahydroxy-2',5'-dibenzoyloxy [1,1':4',1''-terphenyl]  $C_{32}H_{22}O_8$  (534.53). Grayish solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

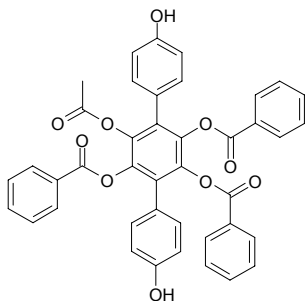


**21303 Thelephantin K**

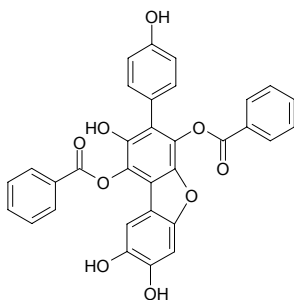
4,4'',6'-Trihydroxy-2',3',5'-tribenzoyloxy [1,1':4',1''-terphenyl] C<sub>39</sub>H<sub>26</sub>O<sub>9</sub> (638.64). Grayish solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

**21304 Thelephantin L**

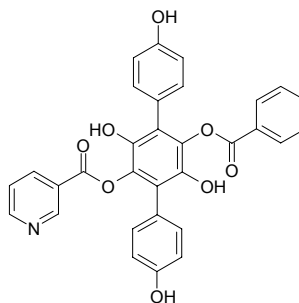
4,4''-Dihydroxy-2',3',5'-tribenzoyloxy-6'-acetyloxy[1,1':4',1''-terphenyl] C<sub>41</sub>H<sub>28</sub>O<sub>10</sub> (680.67). Grayish solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

**21305 Thelephantin M**

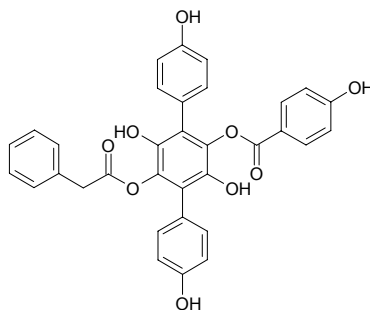
Di[benzoic acid]2,7,8-trihydroxy-3-(4-hydroxyphenyl)dibenzofuran-1,4-diyl C<sub>32</sub>H<sub>20</sub>O<sub>9</sub> (548.51). Yellow brown solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

**21306 Thelephantin N**

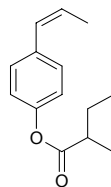
3',4,4'',6'-Tetrahydroxy-2'-benzoyloxy-5'-(3-pyridinecarboxyl)[1,1':4',1''-terphenyl] C<sub>31</sub>H<sub>21</sub>NO<sub>8</sub> (535.51). Grayish solid. Source: LAN SE YA CHI JUN *Hydnellum caeruleum*. Ref: 3809.

**21307 Thelephorin A**

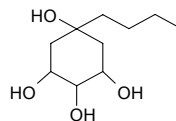
C<sub>33</sub>H<sub>24</sub>O<sub>9</sub> (564.55). Source: JIN HUANG GE JUN *Thelephora aurantiotincta*. Ref: 3423.

**21308 Thellungianin F**

C<sub>14</sub>H<sub>18</sub>O<sub>2</sub> (218.30). Colorless liquid. Source: YANG HONG SHAN *Pimpinella thelungiana*. Ref: 806.

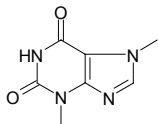
**21309 Thellungianol**

1-Butyl-3,4,5-trihydroxy-cyclohexanol C<sub>10</sub>H<sub>20</sub>O<sub>4</sub> (204.27). Colorless acicular crystals, mp 156~160°C. Source: YANG HONG SHAN *Pimpinella thelungiana*. Ref: 805.

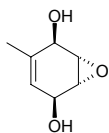


**21310 Theobromine**

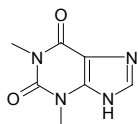
3,7-Dimethylxanthine [83-67-0] C<sub>7</sub>H<sub>8</sub>N<sub>4</sub>O<sub>2</sub> (180.17). Acicular crystals, mp 357°C, 290~295°C (sub), slightly soluble in ethanol, water, almost insoluble in benzene, chloroform, ether.<sup>[5507]</sup> **Pharm:** Coronary vasodilator; diuretic; CNS stimulant; used in treatment of hepatic edema; inhibits cancer cell invasion inactive (MM1 cells, *in vitro*, 10µg/mL)<sup>[4329]</sup>. **Source:** BA XI XIANG WU HUAN ZI *Paullinia cupana*, CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], HEI ZI LI GUO JI SHENG *Scurrura atropurpurea*, KE KE *Theobroma cacao*, SU DAN KE LE GUO *Cola acuminata*. **Ref:** 6, 658, 4329, 5507.

**21311 Theobroxide**

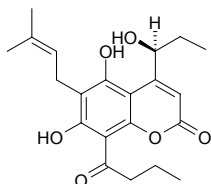
C<sub>7</sub>H<sub>10</sub>O<sub>3</sub> (142.16). **Pharm:** Potato micro-tuber inducer (10µmol/L). **Source:** *Lasiodiplodia theobromae*. **Ref:** 3966.

**21312 Theophylline**

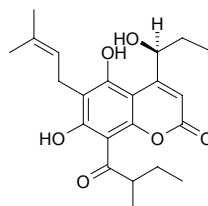
Theocin; Theolix; Theograd; Armophylline [58-55-9] C<sub>7</sub>H<sub>8</sub>N<sub>4</sub>O<sub>2</sub> (180.17). mp 264°C; soluble in water, ethanol, chloroform, slightly ether.<sup>[5507]</sup> **Pharm:** Coronary vasodilator; diuretic; reduces vasa publica permeability and prevents exudative pulmonary edema (gpg); antiasthmatic (bronchial smooth muscle relaxant); stimulates center and cardiac muscles; used in treatment of angina pectoris, asthma, and cardiac edema. **Source:** CHA YE *Camellia sinensis* [Syn. *Thea sinensis*] (in 1889, discovered by Kossel<sup>[5507]</sup>), BA XI XIANG WU HUAN ZI *Paullinia cupana*. **Ref:** 6, 658, 5507.

**21313 Theraphin A**

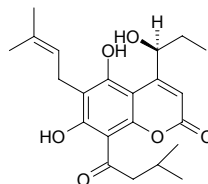
C<sub>21</sub>H<sub>26</sub>O<sub>6</sub> (374.44). Yellowish oil, [α]<sub>D</sub> = -6.2° (c = 0.1, MeOH). **Pharm:** Cytotoxic (Lu1, IC<sub>50</sub> = 7.5µmol/L, Col2, IC<sub>50</sub> = 7.2µmol/L, KB, IC<sub>50</sub> = 3.5µmol/L, LNCaP, IC<sub>50</sub> = 3.5µmol/L); antomalarial (*Plasmodium falciparum* clone D6, IC<sub>50</sub> = 9.7µmol/L, SI = 0.36; *Plasmodium falciparum* clone W2, IC<sub>50</sub> = 7.7µmol/L, SI = 0.45; control Chloroquine, IC<sub>50</sub> = 0.012, 0.13µmol/L, SI = 4500, 149, respectively). **Source:** *Kayea assamica*. **Ref:** 3437.

**21314 Theraphin B**

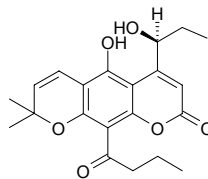
C<sub>22</sub>H<sub>28</sub>O<sub>6</sub> (388.46). Yellowish oil, [α]<sub>D</sub> = -12.7° (c = 0.2, MeOH). **Pharm:** Cytotoxic (Lu1, IC<sub>50</sub> = 16.2µmol/L, Col2, IC<sub>50</sub> = 7.2µmol/L, KB, IC<sub>50</sub> = 5.7µmol/L, LNCaP, IC<sub>50</sub> = 3.4µmol/L); antomalarial (*Plasmodium falciparum* clone D6, IC<sub>50</sub> = 9.8µmol/L, SI = 0.58; *Plasmodium falciparum* clone W2, IC<sub>50</sub> = 9.6µmol/L, SI = 0.59; control Chloroquine, IC<sub>50</sub> = 0.012, 0.13µmol/L, SI = 4500, 149, respectively). **Source:** *Kayea assamica*. **Ref:** 3437.

**21315 Theraphin C**

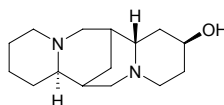
C<sub>22</sub>H<sub>28</sub>O<sub>6</sub> (388.46). Yellowish oil, [α]<sub>D</sub> = -7.1° (c = 0.2, MeOH). **Pharm:** Cytotoxic (Lu1, IC<sub>50</sub> = 42.8µmol/L, Col2, IC<sub>50</sub> = 13.1µmol/L, KB, IC<sub>50</sub> = 6.2µmol/L, LNCaP, IC<sub>50</sub> = 6.4µmol/L); antomalarial (*Plasmodium falciparum* clone D6, IC<sub>50</sub> = 9.5µmol/L, SI = 0.65; *Plasmodium falciparum* clone W2, IC<sub>50</sub> = 5.1µmol/L, SI = 1.22; control Chloroquine, IC<sub>50</sub> = 0.012, 0.13µmol/L, SI = 4500, 149, respectively). **Source:** *Kayea assamica*. **Ref:** 3437.

**21316 Theraphin D**

C<sub>21</sub>H<sub>24</sub>O<sub>6</sub> (372.42). Yellowish oil, [α]<sub>D</sub> = -118.8° (c = 0.1, MeOH). **Pharm:** Cytotoxic (Lu1, IC<sub>50</sub> > 53.8µmol/L, Col2, IC<sub>50</sub> > 53.8µmol/L, KB, IC<sub>50</sub> = 52.2µmol/L, LNCaP, IC<sub>50</sub> = 6.4µmol/L); antomalarial (*Plasmodium falciparum* clone D6, IC<sub>50</sub> = 11.1µmol/L, SI = 4.70; *Plasmodium falciparum* clone W2, IC<sub>50</sub> = 10.4µmol/L, SI = 5.0; control Chloroquine, IC<sub>50</sub> = 0.012, 0.13µmol/L, SI = 4500, 149, respectively). **Source:** *Kayea assamica*. **Ref:** 3437.

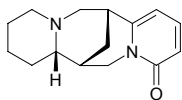
**21317 Thermopsamine**

C<sub>15</sub>H<sub>26</sub>N<sub>2</sub>O (250.39). mp 154-155°C. **Source:** MU MA DOU *Thermopsis lanceolata*. **Ref:** 6.

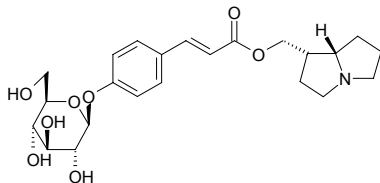


**21318 Thermopsine**

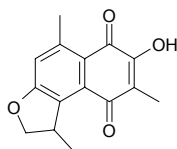
$C_{15}H_{20}N_2O$  (244.34). mp (+) 207°C, (-) 206.5°C, ( $\pm$ ) 171~172°C. Source: GAO SHAN HUANG HUA *Thermopsis alpina*, MU MA DOU *Thermopsis lanceolata*, YE JUE MING *Thermopsis lupinoides*. Ref: 6.

**21319 Thesinine-4'-O- $\beta$ -D-glucoside**

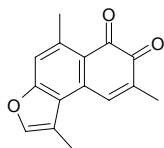
$C_{23}H_{31}NO_8$  (449.50). Colorless amorphous solid. Source: LIU LI JU *Borago officinalis*. Ref: 1958.

**21320 Thespesone**

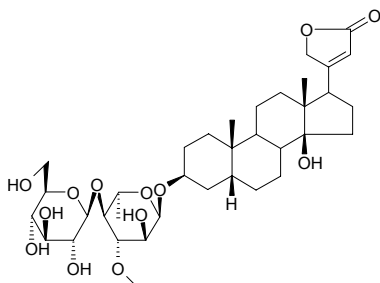
$C_{15}H_{14}O_4$  (258.28). Pharm: Antineoplastic (hmn thymocyte MCF7); inhibits cytochrome C and P450; antioxidant, inhibits lipid peroxidation. Source: YANG YE XIAO JIN *Thespesia populnea* [Syn. *Hibiscus populneus*]. Ref: 2069, 2074.

**21321 Thespone**

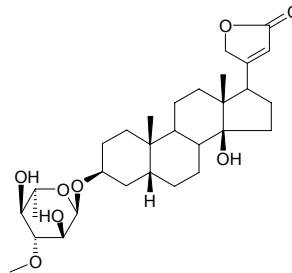
$C_{15}H_{12}O_3$  (240.26). Pharm: Antineoplastic (hmn thymocyte MCF7); inhibits cytochrome C and P450; antioxidant, inhibits lipid peroxidation. Source: YANG YE XIAO JIN *Thespesia populnea* [Syn. *Hibiscus populneus*]. Ref: 2069, 2074.

**21322 Thevebioside**

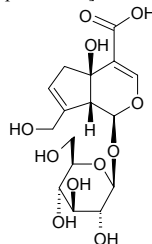
$C_{36}H_{56}O_{13}$  (696.84). Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6.

**21323 Thevefoline**

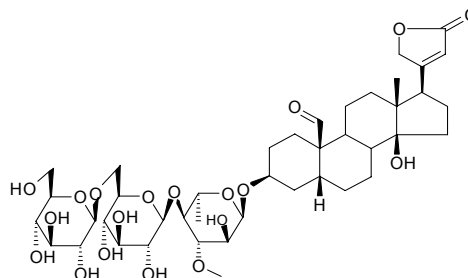
$C_{30}H_{46}O_8$  (534.70). mp 260°C. Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6.

**21324 Theveside**

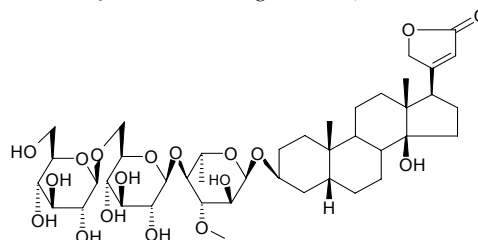
$C_{16}H_{22}O_{11}$  (390.35). Pharm: Anti-HIV-1 (RT (RDDP) inhibitor,  $IC_{50} > 100\mu\text{mol/L}$ , positive control Adriamycin,  $IC_{50} = 27\mu\text{mol/L}$ ; DDDP inhibitor,  $IC_{50} > 100\mu\text{mol/L}$ , positive control Adriamycin,  $IC_{50} = 6\mu\text{mol/L}$ ; HIV-1 IN inhibitor,  $IC_{50} > 100\mu\text{mol/L}$ , positive control Suramin,  $IC_{50} = 2.4\mu\text{mol/L}$ ). Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6, 4187.

**21325 Thevetin A**

$C_{42}H_{64}O_{19}$  (872.97). mp 208~210°C. Pharm: Antiarrhythmic; cardiotoxic; toxin (vertebrates). Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*], AO DAO LA MU HAI MANG GUO *Cerbera odollam*. Ref: 6, 658.

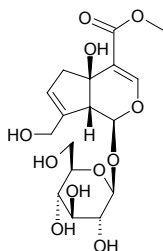
**21326 Thevetin B**

$C_{42}H_{66}O_{18}$  (858.98). mp 197~201°C. Pharm: Antiarrhythmic; cardiotoxic; toxin. Source: AO DAO LA MU HAI MANG GUO *Cerbera odollam*, HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*], NIU XIN QIE ZI *Cerbera manghas*. Ref: 6, 658.

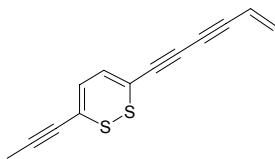


**21327 Theviridoside**

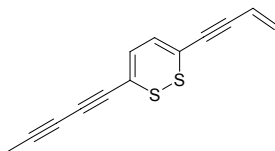
$C_{17}H_{24}O_{11}$  (404.37). **Pharm:** Anti-HIV-1 (RT (RDDP) inhibitor,  $IC_{50} > 100\mu\text{mol/L}$ , positive control Adriamycin,  $IC_{50} = 27\mu\text{mol/L}$ ; DDDP inhibitor,  $IC_{50} > 100\mu\text{mol/L}$ , positive control Adriamycin,  $IC_{50} = 6\mu\text{mol/L}$ ; HIV-1 IN inhibitor,  $IC_{50} > 100\mu\text{mol/L}$ , positive control Suramin,  $IC_{50} = 2.4\mu\text{mol/L}$ )<sup>[4187]</sup>. **Source:** HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*], WU SE MEI *Lantana camara*. **Ref:** 6, 234, 4187.

**21328 Thiarubrin A**

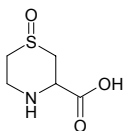
[63543-09-9]  $C_{13}H_8S_2$  (228.32). **Pharm:** Antibacterial; antifungal (*Candida albicans*); antiviral; cytotoxic (*Bacillus coli*, *Bacillus subtilis* and nematode); light sensitive; nematocide; photosensitive agent. **Source:** TUN CAO *Ambrosia artemisiifolia*, family Asteraceae spp. **Ref:** 658, 900.

**21329 Thiarubrin B**

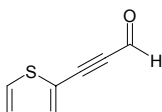
$C_{13}H_8S_2$  (228.34). **Pharm:** Antifungal. **Source:** family Asteraceae spp. **Ref:** 658.

**21330 1,4-Thiazane-3-carboxylic acid S-oxide**

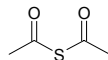
$C_5H_9NO_3S$  (163.20). mp 248~250°C (dec). **Source:** QUN DAI CAI *Undaria pinnatifida*. **Ref:** 6, 660.

**21331 3-(2-Thienyl) propargyl aldehyde**

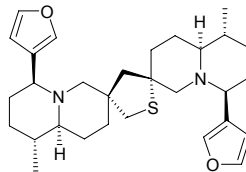
$C_7H_4OS$  (136.17). **Source:** YANG SHI CAO *Achillea millefolium*. **Ref:** 6.

**21332 Thioacetic anhydride**

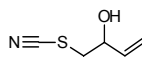
$C_4H_6O_2S$  (118.16). Colorless crystals, mp 141~145°C. **Source:** HUANG BAI HONG GU *Russula ochroleuca*. **Ref:** 2143.

**21333 Thiobinupharidine**

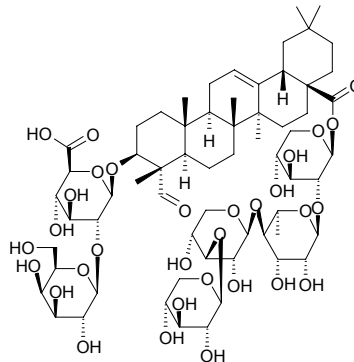
$C_{30}H_{42}N_2O_2S$  (494.75). **Pharm:** Antibacterial. **Source:** OU ZHOU PING PENG CAO *Nuphar luteum*. **Ref:** 658.

**21334 1-Thiocyanato-2-hydroxy-3-butene**

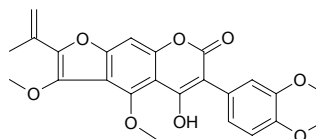
$C_5H_7NOS$  (129.18). **Source:** DA QING YE *Isatis indigotica*. **Ref:** 2.

**21335 Thladioside H<sub>1</sub>**

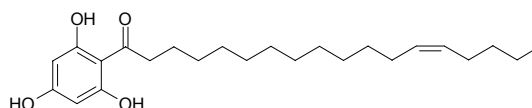
$C_{63}H_{98}O_{31}$  (1351.46). White powder, mp 220°C (dec). **Source:** XIN YE CHI BO *Thladiantha cordifolia*. **Ref:** 425.

**21336 Thonningine C**

5-Hydroxy-4,9-dimethoxy-6-(3,4-dimethoxyphenyl)-2-(1-methylethenyl)-7H-furan[3,2-g]chromen-7-one  $C_{24}H_{22}O_8$  (438.44). Yellow granules (petrol), mp 199~200°C. **Source:** *Millettia thonningii*. **Ref:** 2326.

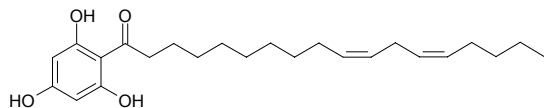
**21337 Thouvenol A**

$C_{24}H_{38}O_4$  (390.57). Colorless oil. **Pharm:** Cytotoxic (*in vitro*, A2780 ovarian cancer cell line,  $IC_{50} = 11\mu\text{g/mL}$ , marginal activity, control Actinomycin D,  $IC_{50} = 1\sim 3\text{ng/mL}$ ). **Source:** *Protorhus thouvenotii* (dried fruit). **Ref:** 5006.

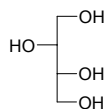


**21338 Thouvenol B**

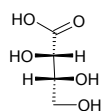
$C_{24}H_{36}O_4$  (388.55). Colorless oil. **Pharm:** Cytotoxic (*in vitro*, A2780 ovarian cancer cell line,  $IC_{50} = 11\mu\text{g/mL}$ , marginal activity, control Actinomycin D,  $IC_{50} = 1\sim 3\text{ng/mL}$ ). **Source:** *Protorus thouvenotii* (dried fruit). **Ref:** 5006.

**21339 (D)-Threitol**

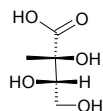
$C_4H_{10}O_4$  (122.12). Amorphous powder,  $[\alpha]_D^{23} = -7^\circ$ . **Source:** BEI SHA SHEN *Glehnia littoralis* (fruit), SHI LUO ZI *Anethum graveolens* (fruit). **Ref:** 3525, 4177.

**21340 (D)-Threonic acid**

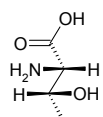
$C_4H_8O_5$  (136.11). **Source:** QIAN MA *Urtica cannabina*. **Ref:** 660.

**21341 (L)-Threonic acid**

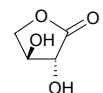
$C_4H_8O_5$  (136.11). **Source:** QIAN MA *Urtica cannabina*. **Ref:** 660.

**21342 Threonine**

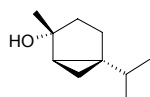
$C_4H_9NO_3$  (119.12). **Source:** BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.27%~0.82%, mean content = 0.59%)<sup>[5521]</sup>, widely distributed in nature (a product of protein hydrolysates). **Ref:** 660, 5521.

**21343 Threono-1,4-lactone**

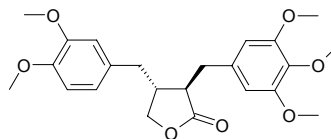
$C_4H_6O_4$  (118.09). **Source:** QIAN MA *Urtica cannabina*. **Ref:** 660.

**21344 Thujanol-4**

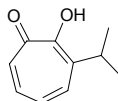
$C_{10}H_{18}O$  (154.25). *cis*-(+) mp 36.5~7.2°C, *trans*-(+) mp 60~61°C, bp 193~198°C. **Source:** SHE XIANG CAO *Thymus vulgaris*. **Ref:** 6.

**21345 (-)-Thujaplicatin trimethyl ether**

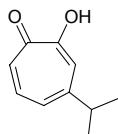
$C_{23}H_{28}O_7$  (416.48). **Pharm:** CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4,  $IC_{50} = 1.1\mu\text{mol/L}$ ; CYP2D6,  $IC_{50} > 100\mu\text{mol/L}$ ; control Ketoconazole, CYP3A4,  $IC_{50} = 0.72\mu\text{mol/L}$ ; control Quinidine, CYP2D6,  $IC_{50} = 0.082\mu\text{mol/L}$ ). **Source:** BI CHENG QIE *Piper cubeba* (fruit: yield = 0.000069%dw). **Ref:** 4797.

**21346 α-Thujaplicin**

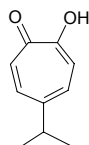
$C_{10}H_{12}O_2$  (164.21). mp 82°C. **Source:** SHAN CI BAI *Juniperus taiwaniana*. **Ref:** 6.

**21347 β-Thujaplicin**

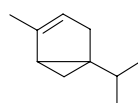
$C_{10}H_{12}O_2$  (164.21). mp 52.0~52.5°C. **Pharm:** Antifungal. **Source:** AI SHI BAI MU *Cupressus abramsiana*, BEI MEI XIANG BAI *Thuja plicata*, DA GUO BAI MU *Cupressus macrocarpa*, SA JIN TE BAI MU *Cupressus sargentii*, SHAN CI BAI *Juniperus taiwaniana*. **Ref:** 6, 658.

**21348 γ-Thujaplicin**

$C_{10}H_{12}O_2$  (164.21). **Pharm:** Antifungal. **Source:** AI SHI BAI MU *Cupressus abramsiana*, BEI MEI XIANG BAI *Thuja plicata*, DA GUO BAI MU *Cupressus macrocarpa*, SA JIN TE BAI MU *Cupressus sargentii*, SHAN CI BAI *Juniperus taiwaniana*. **Ref:** 6, 658.

**21349 Thujene**

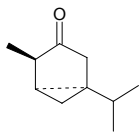
$C_{10}H_{16}$  (136.24). bp (+) 152.0~152.5°C, (-) 151°C. **Source:** JU PI *Citrus reticulata*, QIANG HUO *Notopterygium incisum*, SHENG JIANG *Zingiber officinale*, HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.



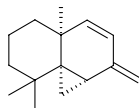


**21350 1-Thujone**

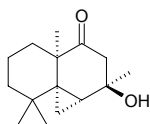
$C_{10}H_{16}O$  (152.24). **Pharm:** Anthelmintic; anti-stimulation; spasmogenic; LD (mus, ip) = 240mg/kg. **Source:** AI YE *Artemisia argyi*, BEI AI *Artemisia vulgaris*, BEI MEI YA BAI *Thuja occidentalis*, BEI YE JU *Chrysanthemum boreale*, CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], HUANG HAO *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*], JU HAO *Tanacetum vulgare*, MU HAO *Artemisia japonica*, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], SHI JI NING *Mosla scabra* [Syn. *Mosla punctata*], YAN XIANG JU *Chrysanthemum lavandulifolium*, YANG SHI CAO *Achillea millefolium*, YE JU *Chrysanthemum indicum*, YIN CHEN HAO *Artemisia capillaris*, ZHONG YA KU HAO *Artemisia absinthium*. **Ref:** 2, 658, 660, 5501.

**21351 Thujopsadiene**

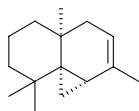
$C_{15}H_{22}$  (202.34). bp 115°C/10mmHg. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 6.

**21352 Thujopsan-7β-ol**

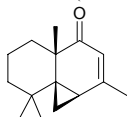
$C_{15}H_{24}O_2$  (236.36). **Source:** DI SUO LUO *Marchantia polymorpha*. **Ref:** 660.

**21353 Thujopsene**

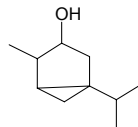
[470-40-6]  $C_{15}H_{24}$  (204.36). bp 121~122°C/12mmHg. **Source:** WU WEI ZI *Schisandra chinensis*. **Ref:** 2.

**21354 Thujopsenone**

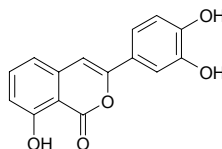
$C_{15}H_{22}O$  (218.34). **Source:** DI SUO LUO *Marchantia polymorpha*. **Ref:** 660.

**21355 Thujylalcohol**

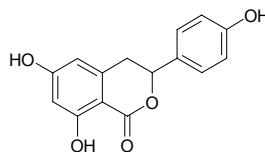
$C_{10}H_{16}O$  (152.24). mp (-) 66~67°C. **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

**21356 Thunberginol A**

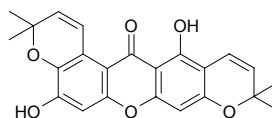
[147666-80-6]  $C_{15}H_{10}O_5$  (270.24). Yellow rhombic crystals, mp 240°C (methanol-water). **Pharm:** Antiallergic; antibacterial (*Fusobacterium nucleatum*, MIC = 10mg/L; *Ristella melaninogenica*, MIC = 5mg/L). **Source:** DI SUO LUO *Marchantia polymorpha*. **Ref:** 900.

**21357 Thunberginol C**

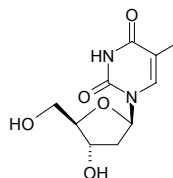
$C_{15}H_{12}O_5$  (272.26). **Pharm:** Antioxidant (DPPH scavenger,  $IC_{50}$  = (115.6±12.6)μg/mL; control Ascorbic acid,  $IC_{50}$  = (2.49±0.32)μg/mL; Caffeic acid,  $IC_{50}$  = (1.78±0.03)μg/mL; Chlorogenic acid,  $IC_{50}$  = (1.28±0.38)μg/mL). **Source:** SUAN YE PO LUO MEN SHEN *Tragopogon porrifolius* (subaerial parts). **Ref:** 5307.

**21358 Thwaitesixanthone**

$C_{23}H_{20}O_6$  (392.41). **Pharm:** Cytotoxic inactive (KB cancer cell lines; BC-1; NCI-H187). **Source:** DAO NIAN ZI *Garcinia mangostana* (young fruit: yield = 0.0034%dw). **Ref:** 1619.

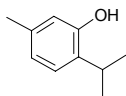
**21359 Thymidine**

Thymine-2-desoxyribose [50-89-5]  $C_{10}H_{14}N_2O_5$  (242.23). Colorless acicular crystals, mp 184.0~186.5°C (methanol),  $[\alpha]_D^{25}$  = +30.6° (water)<sup>[5507]</sup>. **Source:** AN HUI BEI MU *Fritillaria anhuiensis*, GAN SU BEI MU *Fritillaria przewalskii*, NAN FANG TU SI ZI *Cuscuta australis*, PING BEI MU *Fritillaria ussuriensis*, SHI LUO ZI *Anethum graveolens* (fruit), ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*], *Tylotella* sp. **Ref:** 459, 569, 689, 4177,5507.

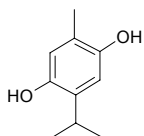


**21360 Thymol**

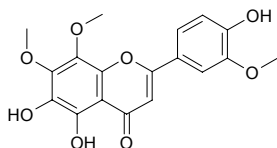
[89-83-8] C<sub>10</sub>H<sub>14</sub>O (150.22). mp 51.5°C, bp 211~212°C/745mmHg. **Pharm:** Antibacterial; anthelmintic; acaricide (1% solution, 30min, mortality = 100%; 0.03% solution, 24h, mortality = 100%); antifungal (*Aspergillus niger* KCCM11239, MFC = 0.78mg/mL; *Aspergillus flavus* KCCM11453, MFC = 0.39mg/mL; *Candida albicans* KCCM11282, MFC = 0.39mg/mL; *Candida utilis* KCCM11356, MFC = 0.39mg/mL; *Cryptococcus neoformans* KCCM0564, MFC = 0.39mg/mL; *Trichosporon mucoides* KCCM50570, MFC = 0.19mg/mL; *Trichophyton rubrum* ATCC6345, MFC = 0.09mg/mL; *Blastoschyzomyces capitatus* KCCM50270, MFC = 0.39mg/mL)<sup>[4079]</sup>; antiseptic (tooth decay cavity); dispels phlegm (promotes movement of trachea cilium, benefits mucous secretion); free radical scavenger; LD<sub>50</sub> (rat, orl) = 980mg/kg. **Source:** A YU WEI *Trachyspermum ammi*, BAI LI XIANG *Thymus serpyllum*, CHAI HU *Bupleurum chinense*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], JU PI *Citrus reticulata*, SHE XIANG CAO *Thymus vulgaris*, SHI XIANG RU *Mosla chinensis* [Syn. *Orthodon chinensis*] (dried aerial parts: content scope of 10 origins = 0.06%~0.46%, mean content = 0.22%<sup>[5508]</sup>), TU XIANG RU *Origanum vulgare*, XIANG QING LAN *Dracocephalum moldavicum*, CHAO XIAN DA BAI LI XIANG *Thymus magnus*, WU MAI BAI LI XIANG *Thymus quinquecostatus*. **Ref:** 2, 4, 658, 4079, 5501, 5508.

**21361 Thymolhydroquinone**

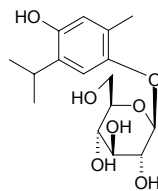
C<sub>10</sub>H<sub>14</sub>O<sub>2</sub> (166.22). mp 143°C, bp 290°C. **Source:** PEI LAN *Eupatorium fortunei*. **Ref:** 6.

**21362 Thymonin**

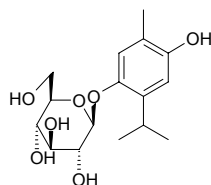
[76844-67-2] C<sub>18</sub>H<sub>16</sub>O<sub>8</sub> (360.33). **Pharm:** Aldose reductase inhibitor (rat eye lens, 10μmol/L InRt = 33%, 1μmol/L InRt = 16%; ox eye lens, 10μmol/L InRt = 46%, 1μmol/L InRt = 11%); sucrose inhibitor (in small intestine, 50μmol/L, InRt = 14%); maltase inhibitor (50μmol/L, InRt = 9%); antispasmodic; smooth muscle relaxant; antibacterial (*Staphylococcus aureus*, 62.5μg/mL); low toxic (mus, orl, 2g/kg, innocuity) **Source:** SHE XIANG CAO *Thymus vulgaris*. **Ref:** 658, 1771, 1772, 1773, 1774.

**21363 Thymoquinol 2-O-β-glucopyranoside**

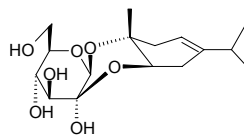
C<sub>16</sub>H<sub>24</sub>O<sub>7</sub> (328.37). **Source:** XU LI YA NIU ZHI *Origanum syriacum* (aerial parts). **Ref:** 5223.

**21364 Thymoquinol 5-O-β-glucopyranoside**

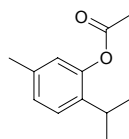
C<sub>16</sub>H<sub>24</sub>O<sub>7</sub> (328.37). **Source:** XU LI YA NIU ZHI *Origanum syriacum* (aerial parts). **Ref:** 5223.

**21365 Thymuside A**

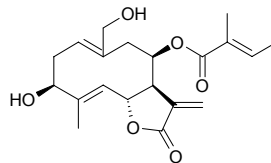
C<sub>16</sub>H<sub>26</sub>O<sub>7</sub> (330.38). Amorphous powder, [α]<sub>D</sub><sup>22</sup> = +2° (c = 0.5, MeOH). **Source:** SHE XIANG CAO *Thymus vulgaris* (leaf). **Ref:** 3895.

**21366 Thymyl acetate**

C<sub>12</sub>H<sub>16</sub>O<sub>2</sub> (192.26). **Pharm:** Analgesic; antiseptic. **Source:** SHE XIANG CAO *Thymus vulgaris*. **Ref:** 658.

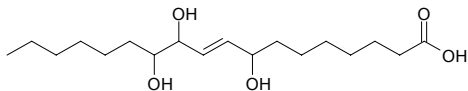
**21367 8β-Tigloyloxy-3β,14-dihydroxy-6βH,7αH-germacra-1(10)Z,AE, 11(13)-trien-6,12-olide**

C<sub>20</sub>H<sub>26</sub>O<sub>6</sub> (362.43). **Source:** CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00041%dw). **Ref:** 4762.

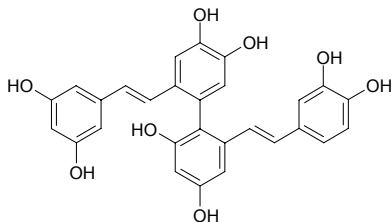


**21368 Tianshic acid**

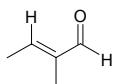
$C_{18}H_{34}O_5$  (330.47). White powder, mp 102~103°C. Source: SUO LUO ZI *Aesculus wilsonii*. Ref: 843.

**21369 Tibeticanol**

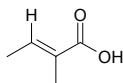
$C_{28}H_{22}O_8$  (486.48). Amorphous brown powders. Pharm: Antioxidant (superoxide anion scavenger,  $IC_{50} = (1.33 \pm 0.01) \mu\text{mol/L}$ , control (+)-Catechin,  $IC_{50} = (3.67 \pm 0.14) \mu\text{mol/L}$ ). Source: MAO CI JIN JI ER *Caragana tibetica* (stem). Ref: 4514.

**21370 Tiglaldehyde**

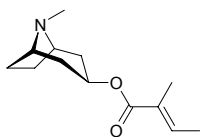
(*E*)-2-Methyl-2-butenal; Tiglic aldehyde; *trans*-Tiglaldehyde; (*E*)-2-Methylcrotonaldehyde; *trans*-2-Methyl-2-butenal;  $\alpha$ -Methylcrotonaldehyde; (*E*)-2-Methylbut-2-en-1-al [497-03-0]  $C_5H_8O$  (84.12). bp 116.5~117.5°C/738mmHg. Source: XI XIANG CONG *Allium schoenoprasum*. Ref: 6.

**21371 Tiglic acid**

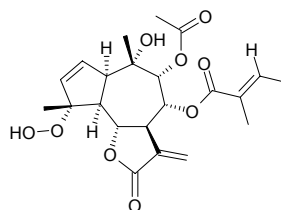
(*E*)-2-Methyl-2-butenic acid; *trans*-2-Methyl-2-butenic acid [80-59-1]  $C_5H_8O_2$  (100.12). Source: YUAN DANG GUI *Angelica archangelica*, BA DOU *Croton tiglium*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], NAN HE SHI *Daucus carota*. Ref: 2, 660.

**21372 Tigloidine**

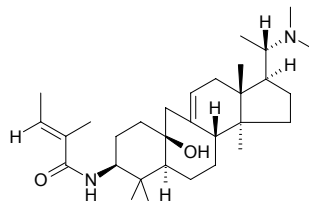
3 $\alpha$ -Tigloyloxytropine  $C_{13}H_{21}NO_2$  (223.32). mp 181.5~183.0°C. Pharm: Anticholinergic; CNS depressant; used in treatment of muscle rigidity and Parkinson's disease. Source: SUAN JIANG *Physalis alkekengi*, GUA JIN DENG *Physalis alkekengi* var. *franchetii*, MAO MAN TUO LUO HUA *Datura innoxia*, YANG JIN HUA *Datura metel*. Ref: 6, 658, 1521.

**21373 8-O-Tigloyl-9-O-acetylanthemolide B**

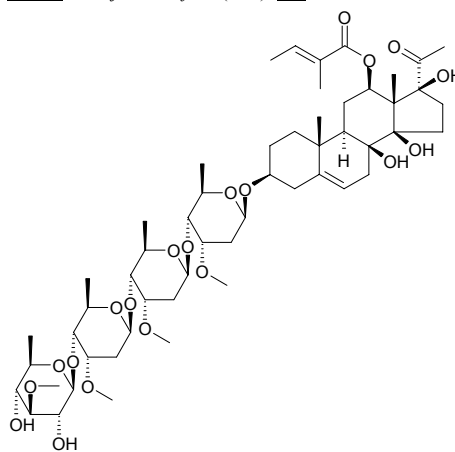
$C_{22}H_{28}O_9$  (436.46). Colorless gum. Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**21374 N-Tigloylbuxahyrcanine**

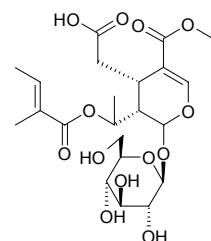
$C_{31}H_{52}N_2O_2$  (484.77). Colorless amorphous powder, mp 245.5°C,  $[\alpha]_D^{29} = +62^\circ$  ( $c = 0.096$ ,  $CHCl_3$ ). Pharm: AChE inhibitor (*in vitro*,  $IC_{50} = 443.6 \mu\text{mol/L}$ ; control Eserine,  $IC_{50} = 0.041 \mu\text{mol/L}$ ); BChE inhibitor (*in vitro*,  $IC_{50} = 31.2 \mu\text{mol/L}$ ; control Eserine,  $IC_{50} = 0.0857 \mu\text{mol/L}$ ). Source: HE KAN I YA HUANG YANG *Buxus hyrcana* (leaf). Ref: 4694.

**21375 12-O-Tigloyldeacylmetaplexigenin**

$C_{54}H_{86}O_{20}$  (1055.28). Amorphous powder,  $[\alpha]_D^{22} = +15.8^\circ$  ( $c = 1.27$ , MeOH). Source: *Araujia sericifera* (root). Ref: 4377.

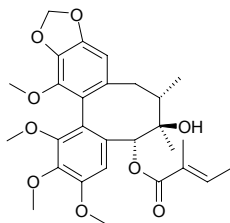
**21376 8-O-Tigloyldideroside**

$C_{22}H_{32}O_{13}$  (504.49). Amorphous powder,  $[\alpha]_D^{25} = -78.8^\circ$  ( $c = 1.5$ , MeOH). Source: *Calycophyllum spruceanum*. Ref: 3439.



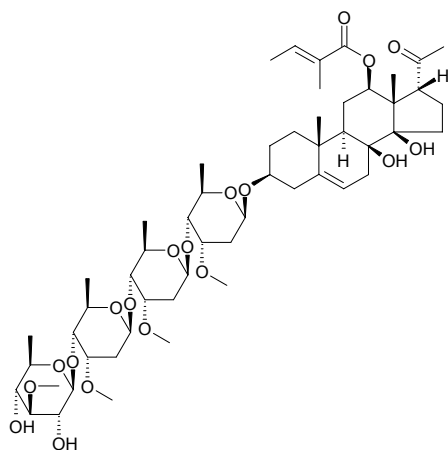
**21377 Tigloylgomisin P**

$C_{28}H_{34}O_9$  (514.58). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**21378 12-O-Tigloyllineolon**

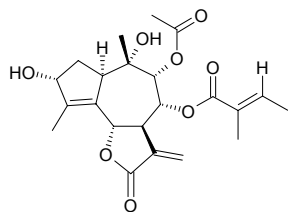
$C_{54}H_{86}O_{19}$  (1039.28). Amorphous powder,  $[\alpha]_D^{22} = +2.1^\circ$  ( $c = 0.66$ , MeOH).

Source: *Araujia sericifera* (root). Ref: 4377.

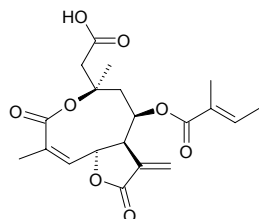
**21379 8 $\alpha$ -Tigloyloxyanthemolide C**

$C_{22}H_{28}O_8$  (420.46). Colorless gum,  $[\alpha]_D^{25} = +57^\circ$  ( $c = 0.11$ , MeOH). Source:

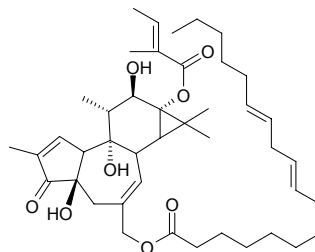
*Anthemis carpatica* (aerial parts). Ref: 3974.

**21380 8 $\beta$ -Tigloyloxy-2,3-seco-6 $\beta$ H,7 $\alpha$ H-helianga-4Z,11(13)-diene-3,10 $\beta$ ; 6,12-dioid-2-oic acid**

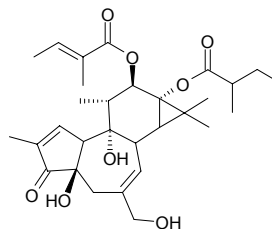
$C_{20}H_{24}O_8$  (392.41). Source: CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.00036%dw). Ref: 4762.

**21381 13-O-Tigloylphorbol-20-linoleate**

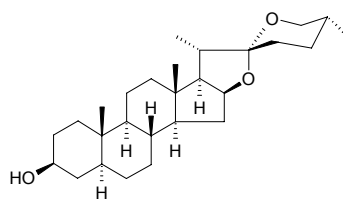
13-O-Tigloylphorbol-20-(9Z,12Z-octadecadienoate)  $C_{43}H_{64}O_8$  (708.98). Oil,  $[\alpha]_D = +98.3^\circ$  ( $c = 0.05$ ,  $CHCl_3$ ). Pharm: Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor,  $IC_{100} = 7.81 \mu\text{g/mL}$ ,  $CC_0 = 62.5 \mu\text{g/mL}$ , control DS8000,  $IC_{100} = 3.9 \mu\text{g/mL}$ ,  $CC_0 > 1000 \mu\text{g/mL}$ ); PKC activator (10ng/mL, activity rate = 14%). Source: BA DOU *Croton tiglium*. Ref: 3921.

**21382 12-O-Tigloylphorbol-13-(2-methylbutyrate)**

$C_{30}H_{42}O_8$  (530.66). Oil,  $[\alpha]_D = +20.0^\circ$  ( $c = 0.03$ ,  $CHCl_3$ ). Pharm: Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor,  $IC_{100} = 31.3 \mu\text{g/mL}$ ,  $CC_0 = 62.5 \mu\text{g/mL}$ , control DS8000,  $IC_{100} = 3.9 \mu\text{g/mL}$ ,  $CC_0 > 1000 \mu\text{g/mL}$ ); PKC activator (10ng/mL, activity rate = 10%). Source: BA DOU *Croton tiglium*. Ref: 3921.

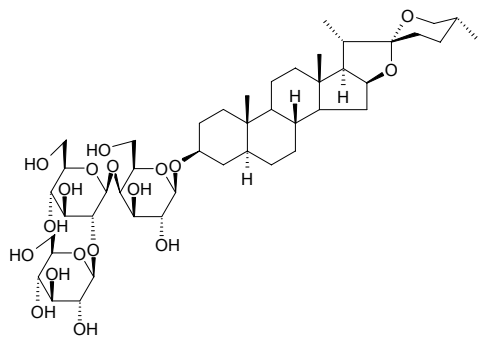
**21383 Tigogenin**

[77-60-1]  $C_{27}H_{44}O_3$  (416.65). mp 201~203°C; mp 205~206°C. Pharm: Raw material for synthesis of hormonal corticosteroid drugs. Source: DAN SHEN *Salvia miltiorrhiza*, DONG YI HAO JIAN MA *Agave east-one*, DUAN YE LONG SHE LAN *Agave angustifolia*, FAN MA *Agave americana*, HU LU BA *Trigonella foenum-graecum*, JIAN MA *Agave sisalana*, JIAN YE TIE SHU YE *Cordyline stricta*, LONG KUI *Solanum nigrum*, NIAN YU XU *Smilax sieboldii*, QIAN NIAN BU LAN XIN *Solanum dulcamara*, QIE ZI *Solanum melongena*, WAN XIANG YU *Polianthes tuberosa*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], XIA YE LONG SHE LAN *Agave cantala*, ZHANG LIU TOU *Costus speciosus*, *Agave lecheguilla*. Ref: 6, 10, 660, 2503.



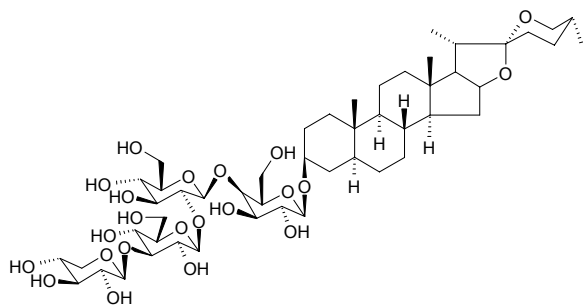
**21384 Tigogenin-3-O- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 4)- $\beta$ -D-galactopyranoside**

C<sub>45</sub>H<sub>74</sub>O<sub>18</sub> (903.08). Source: BAI MAO TENG *Solanum lyratum*. Ref: 660.



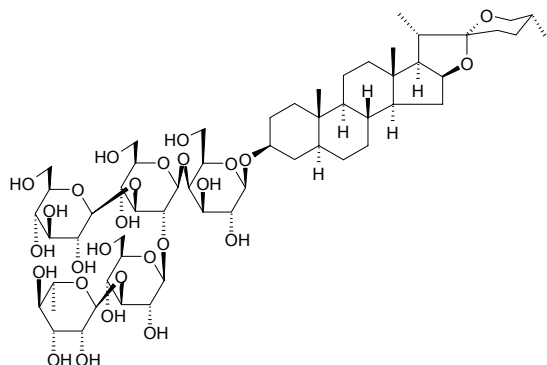
**21385 Tigogenin 3-O- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 2)- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 3)- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 4)- $\beta$ -D-galactopyranoside**

C<sub>50</sub>H<sub>82</sub>O<sub>22</sub> (1035.2). Pharm: Cytotoxic (*in vitro*, HeLa, IC<sub>50</sub> = 3.5  $\mu$ g/mL; control cis-Platin, IC<sub>50</sub> = 0.75  $\mu$ g/mL). Source: WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.017%fw). Ref: 3002.



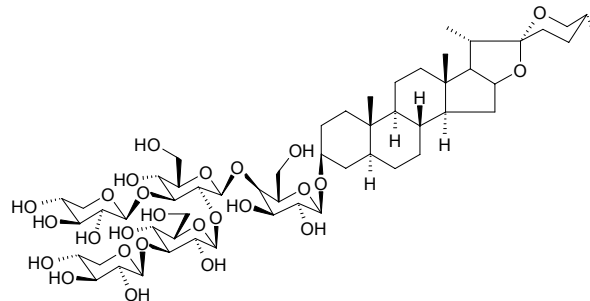
**21386 Tigogenin-3-O- $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 3)- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 3)- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 4)- $\beta$ -D-galactopyranoside**

C<sub>57</sub>H<sub>94</sub>O<sub>27</sub> (1211.37). Amorphous. Source: FAN MA *Agave americana*. Ref: 2259.



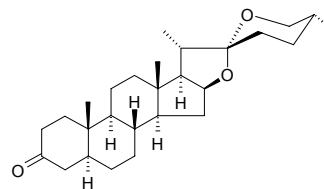
**21387 Tigogenin 3-O- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 3)- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 2)- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 3)- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 4)- $\beta$ -D-galactopyranoside**

C<sub>55</sub>H<sub>90</sub>O<sub>26</sub> (1167.31). Pharm: Cytotoxic (*in vitro*, HeLa, IC<sub>50</sub> = 7.2  $\mu$ g/mL; control cis-Platin, IC<sub>50</sub> = 0.75  $\mu$ g/mL). Source: WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.0040%fw). Ref: 3002.



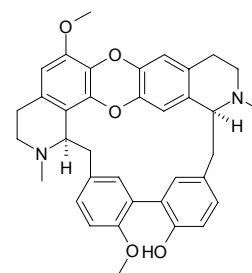
**21388 Tigogenone**

C<sub>27</sub>H<sub>42</sub>O<sub>3</sub> (414.63). Source: WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*]. Ref: 10.



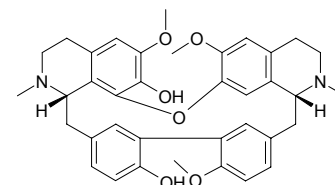
**21389 Tiliacorine**

C<sub>36</sub>H<sub>36</sub>N<sub>2</sub>O<sub>5</sub> (576.70). Pharm: Antimalarial (*Plasmodium falciparum*). Source: family Menispermaceae spp. Ref: 658.



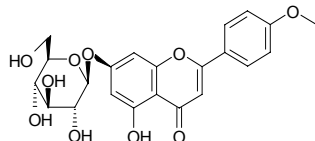
**21390 Tiliageine**

C<sub>37</sub>H<sub>40</sub>N<sub>2</sub>O<sub>6</sub> (608.74). Pharm: Antitrypanosomal (inhibits trypomastigote form of *Trypanosoma cruzi*, strain Y, IC<sub>50</sub> = 175.1  $\mu$ g/mL, IC<sub>90</sub> = 370.7  $\mu$ g/mL); antimalarial (*Plasmodium falciparum* D6, LC<sub>50</sub> = 48.9 ng/mL, SI = 65; *Plasmodium falciparum* W2, LC<sub>50</sub> = 107.7 ng/mL, SI = 30); cytotoxic (KB, LC<sub>50</sub> = 3200 ng/mL). Source: *Guatteria boliviana* (stem cortex). Ref: 3976.

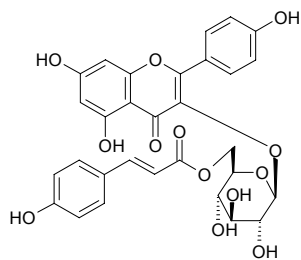


**21391 Tilianin**

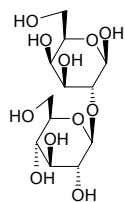
Acacetin-7-O-glucoside  $C_{22}H_{22}O_{10}$  (446.41). Crystals (+2.5H<sub>2</sub>O, MeOH), mp 259–260°C (anhyd.),  $[\alpha]_D^{20} = -63.3^\circ$  (pyridine:EtOH = 7:3). **Source:** BAN BIAN SU *Elsholtzia ciliata*, DA LI HUA *Dahlia pinnata* [Syn. *Dahlia variabilis*], HUA DONG DUAN *Tilia japonica* (leaf), HUO XIANG *Agastache rugosus*, JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], XIANG RU *Elsholtzia splendens*, ZHI JIA HUA YE *Lawsonia inermis*. **Ref:** 2, 660, 1521.

**21392 Tiliroside**

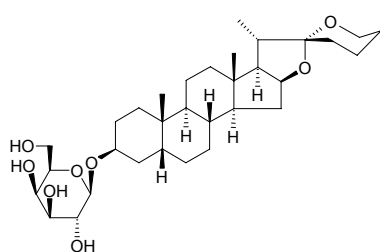
Potengriffoside A, Kaempferol-3-O-(6''-coumaroyl)-glucoside  $C_{30}H_{26}O_{13}$  (594.53). Yellow needles, mp 246–248°C,  $[\alpha]_D^{26} = -57^\circ$  ( $c = 0.045$ , MeOH); yellow powder, mp 214–215°C,  $[\alpha]_D^{26} = -62^\circ$  ( $c = 0.28$ , MeOH). **Pharm:** Anti-inflammatory (inhibits mouse paw oedema induced by phospholipase A<sub>2</sub>, ID<sub>50</sub> = 35.6mg/kg; inhibits mouse ear inflammation induced by TPA, ID<sub>50</sub> = 357mg/ear)<sup>[4415]</sup>; antioxidant (inhibits lipid peroxidation: enzymatic, IC<sub>50</sub> = 12.6μmol/L; non-enzymatic, IC<sub>50</sub> = 28μmol/L)<sup>[4415]</sup>; CYP3A4 inhibitor (hmn CYP3A4, enzyme activity was monitored by nifedipine oxidation, IC<sub>50</sub> = 0.7μmol/L)<sup>[4778]</sup>; ACE inhibitor (IC<sub>50</sub> > 350μmol/L, control Lisinopril, IC<sub>50</sub> = 1nmol/L)<sup>[5034]</sup>; NEP inhibitor (IC<sub>50</sub> = 250μmol/L, control Phosphoramidon, IC<sub>50</sub> = 9nmol/L)<sup>[5034]</sup>; APN inhibitor inactive<sup>[5034]</sup>; CYP3A4 inhibitor (hmn CYP3A4, enzyme activity was monitored by nifedipine oxidation, IC<sub>50</sub> = 0.7μmol/L)<sup>[4778]</sup>. **Source:** CAO MEI *Fragaria ananassa* (fruit: yield = 0.00038%)<sup>[4778]</sup>, CHANG ROU MAO WEI LING CAI *Potentilla griffithii* var. *velutina*, HONG KUAI ZI *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*], YI DA LI LA JU *Helichrysum italicum*, YI MU CAO *Leonurus heterophyllus* [Syn. *Leonurus artemisia*], YUAN HUA *Daphne genkwa* (dried bud: mean content of 19 origins = 0.176%)<sup>[5535]</sup>, *Tilia* spp. **Ref:** 6, 784, 1521, 2522, 4415, 4778, 5034, 5535.

**21393 Timobiose**

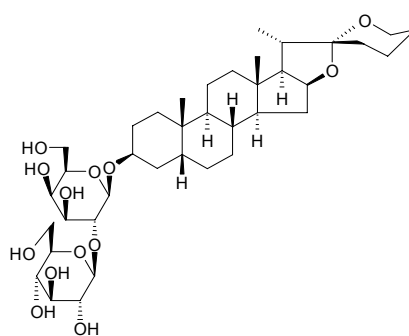
$C_{12}H_{22}O_{11}$  (342.30). mp 164–170°C. **Source:** ZHI MU *Anemarrhena asphodeloides*. **Ref:** 2.

**21394 Timosaponin A<sup>1</sup>**

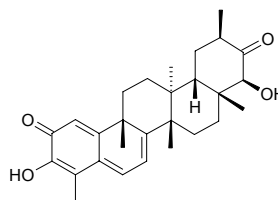
$C_{33}H_{54}O_8$  (578.79). **Source:** ZHI MU *Anemarrhena asphodeloides*. **Ref:** 2.

**21395 Timosaponin A<sub>3</sub>**

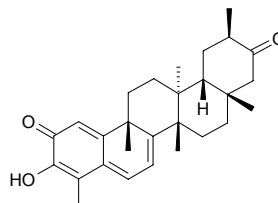
$C_{39}H_{64}O_{13}$  (740.94). mp 317–322°C (dec). **Source:** ZHI MU *Anemarrhena asphodeloides*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 6.

**21396 Tingenin B**

[50656-68-3]  $C_{28}H_{36}O_4$  (436.60). **Pharm:** Antioxidant (DPPH scavenger, for 40μmol/L DPPH radical, SC<sub>50</sub> = 8.5μmol/L). **Source:** SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 4378.

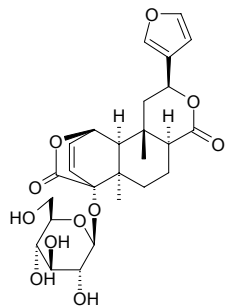
**21397 Tingenone**

[50802-21-6]  $C_{28}H_{36}O_3$  (420.60). Crystals, mp 203–204°C. **Pharm:** Antitrypanosomal; germination inhibitor (seeds of haricot); inhibits biosynthesis of DNA, RNA and protein; antineoplastic; antioxidant (DPPH scavenger, for 40μmol/L DPPH radical, SC<sub>50</sub> = 13μmol/L)<sup>[4378]</sup>; anti-inflammatory (modulator of cytokine network: inhibits LPS-stimulated IL-1β production on hmn monocytes, mean IC<sub>50</sub> = 58nmol/L)<sup>[4416]</sup>. **Source:** SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*], JIA NA LI MEI DENG MU *Maytenus canariensis*, *Maytenus* sp., *Salacia* sp. **Ref:** 658, 1521, 4378, 4416.

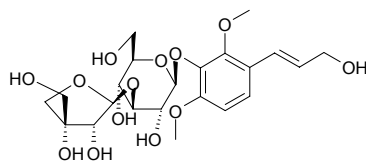


**21398 Tinoside**

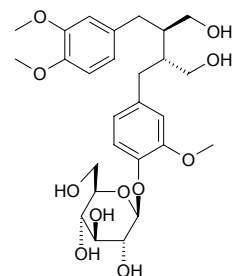
Palmitoside D C<sub>26</sub>H<sub>32</sub>O<sub>11</sub> (520.54). Source: QING NIU DAN *Tinospora sagittata*. Ref: 660.

**21399 Tinosinen**

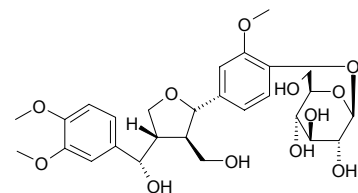
C<sub>22</sub>H<sub>32</sub>O<sub>13</sub> (504.49). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**21400 Tinosposide A**

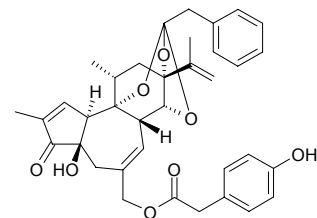
C<sub>27</sub>H<sub>38</sub>O<sub>11</sub> (538.60). Amorphous powder,  $[\alpha]_D^{25} = -39^\circ$  ( $c = 1.0$ , MeOH). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**21401 Tinosposide B**

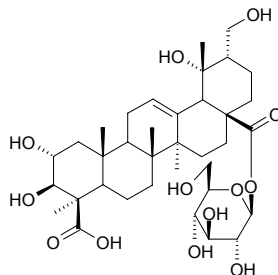
C<sub>27</sub>H<sub>38</sub>O<sub>12</sub> (552.58). Amorphous powder,  $[\alpha]_D^{25} = -10^\circ$  ( $c = 0.3$ , MeOH). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**21402 Tinyatoxin**

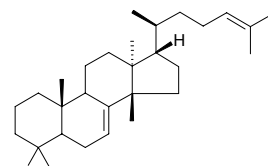
C<sub>36</sub>H<sub>38</sub>O<sub>8</sub> (598.70). Pharm: Toxin (causes inflammation of skin). Source: PO SEN DA JI *Euphorbia poisonii*. Ref: 658.

**21403 Tirlocularoside A**

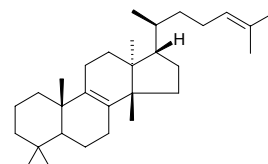
2 $\alpha$ ,3 $\beta$ ,19 $\alpha$ ,30-Tetrahydroxyurs-12-en-24,28-dioic acid 28-O- $\beta$ -D-glucopyranosyl ester C<sub>36</sub>H<sub>56</sub>O<sub>13</sub> (696.84). Amorphous solid, mp 187~189°C (dec),  $[\alpha]_D^{25} = +12.12^\circ$  ( $c = 0.198$ , MeOH). Source: SAN SHI HUANG MA *Corchorus trilocularis*. Ref: 4356.

**21404 Tirucalla-7,24-diene**

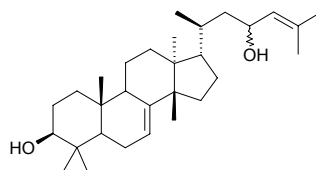
Eupha-7,24-diene [87827-68-7] C<sub>30</sub>H<sub>50</sub> (410.73). Source: DAO LUAN YE FU SHI JUE *Lemnaphyllum microphyllum* var. *obovatum*. Ref: 660.

**21405 Tirucalla-8,24-diene**

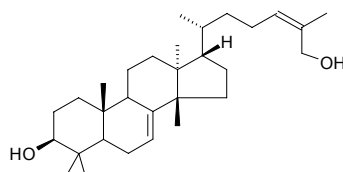
Eupha-8,24-diene C<sub>30</sub>H<sub>50</sub> (410.73). Source: DAO LUAN YE FU SHI JUE *Lemnaphyllum microphyllum* var. *obovatum*. Ref: 660.

**21406 Tirucalla-7,24-diene-3 $\beta$ ,23-diol**

C<sub>30</sub>H<sub>50</sub>O<sub>2</sub> (442.73). White powder, mp 80~83°C. Source: HAI NAN JIAN MU *Dysoxylum hainanense* (bark). Ref: 3987.

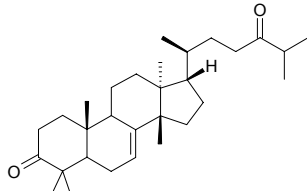
**21407 (24Z)-7,24-Tirucalladien-3 $\beta$ ,26-diol**

(24Z)-7,24-Euphadien-3 $\beta$ ,26-diol [6138-94-9] C<sub>30</sub>H<sub>50</sub>O<sub>2</sub> (442.73). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

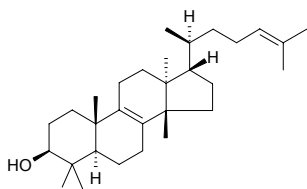


**21408 Tirucall-7-en-3,24-dione**

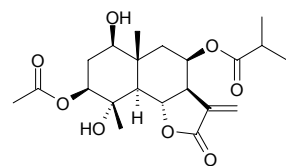
Eupha-7-en-3,24-dione C<sub>30</sub>H<sub>48</sub>O<sub>2</sub> (470.72). Amorphous powder,  $[\alpha]_D^{25} = +5.93^\circ$  ( $c = 0.3$ , MeOH). Source: NAN RI BEN LEI GONG TENG *Tripterygium doianum*. Ref: 1916.

**21409 Tirucallol**

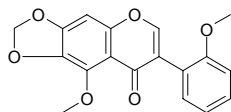
Kanzuol; 20-Epieuphol C<sub>30</sub>H<sub>50</sub>O (426.73). Source: GAN SUI *Euphorbia kansui*, RU XIANG *Boswellia carterii*. Ref: 660.

**21410 Tithofolinolide**

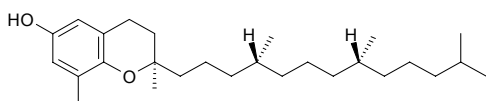
(1*R*,3*S*,4*S*)-3-Acetoxy-1,4-dihydroxy-8-isobutyloxyeudesm-11(13)-en-6,12-olide; Anticancer Sesquiterpene Lactone PMV70P691-037 C<sub>21</sub>H<sub>30</sub>O<sub>8</sub> (410.47). Colorless gel,  $[\alpha]_D^{25} = -33.5^\circ$  ( $c = 0.47$ , MeOH). Pharm: Cytotoxic (antiproliferative, Col2 cells, IC<sub>50</sub> > 20 μg/mL)<sup>[4622]</sup>; cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, 4 μg/mL, activity denotes percentage of cells differentiated = 37.4%)<sup>[4622, 5038]</sup>; cytotoxic (MMOC model, inhibits DMBA-induced preneoplastic lesion formation, 10 μg/mL, rel-InRt = 40.2%, control DMBA, rel-InRt = 100%)<sup>[4622]</sup>. Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts: yield = 0.0021%dw). Ref: 4622, 5038.

**21411 Tlatancuayin**

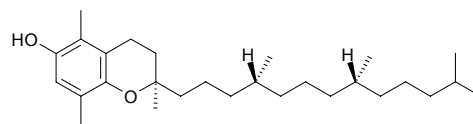
C<sub>18</sub>H<sub>14</sub>O<sub>6</sub> (326.31). Source: BENG GE YUAN WEI *Iris bungei* (underground part). Ref: 3063.

**21412 δ-Tocopherol‡**

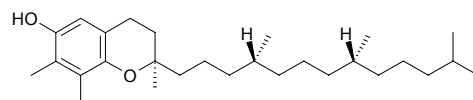
C<sub>27</sub>H<sub>46</sub>O<sub>2</sub> (402.67). Source: MU JIN ZI *Hibiscus syriacus*. Ref: 660. ‡Note: see compound 22560.

**21413 β-Tocopherol‡**

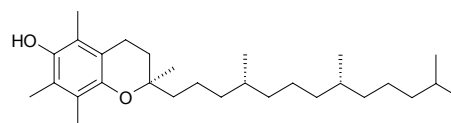
C<sub>28</sub>H<sub>48</sub>O<sub>2</sub> (416.69). Source: MU JIN ZI *Hibiscus syriacus*, ZUO JIANG CAO *Oxalis corniculata* [Syn. *Oxalis Repens*], YOU GAN LAN *Olea europaea*. Ref: 660. ‡Note: See compound 22559.

**21414 γ-Tocopherol‡**

C<sub>28</sub>H<sub>48</sub>O<sub>2</sub> (416.69). Source: MAN JING ZI *Vitex trifolia*. Ref: 660. ‡Note: See compound 22561.

**21415 α-Tocopherol**

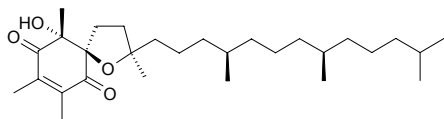
Vitamin E; 5,7,8-Trimethyltolcal; Covitol; Viteolin [59-02-9] C<sub>29</sub>H<sub>50</sub>O<sub>2</sub> (430.72). Brown oleaginous liquid, bp (+) 140°C/0.000001 mmHg, insoluble in water, easily soluble in ether, acetone, benzene, chloroform<sup>[5507]</sup>. Pharm: Antioxidant (prevents oxidation of unsaturated fatty acid components to stabilize cell membranes); antioxidant (DPPH scavenger, EC<sub>50</sub> = 0.134 mmol/L<sup>[4121]</sup>, IC<sub>50</sub> = 0.48 mmol/L<sup>[4211]</sup>, SC<sub>50</sub> = 5.2 mmol/L<sup>[4464]</sup>, IC<sub>50</sub> = 20.7 μmol/L<sup>[3452]</sup>, IC<sub>50</sub> = 22.8 μmol/L<sup>[5483]</sup>, IC<sub>50</sub> = 20.1 μmol/L<sup>[4787]</sup>, EC<sub>50</sub> = 0.138 μg/mL<sup>[3874]</sup>, IC<sub>50</sub> = 0.15 mg/mL<sup>[2587]</sup>); antioxidant (DPPH scavenger, DPPH 15 μmol/L, Vitamin E, 10 μmol/L, ScRt = 41.1%)<sup>[3846]</sup>; antioxidant (DPPH radical scavenger, TLC bioautography method, 1 μg/spot)<sup>[3813]</sup>; antioxidant (lipid peroxidation inhibitor, IC<sub>50</sub> = 5.3 μmol/L)<sup>[3452]</sup>; antioxidant (lipid peroxidation inhibitor, IC<sub>50</sub> = 40.4 μg/mL)<sup>[4506]</sup>; antioxidant (lipid peroxidation inhibitor, microsomal lipid peroxidation induced by ferrous-cysteine *in vitro*, determined by the content of malondialdehyde, 10 μmol/L, InRt = 18.2%)<sup>[2570]</sup>; antioxidant (lipid peroxidation inhibitor, ADP/Fe<sup>2+</sup>-induced, IC<sub>50</sub> = 235 μmol/L<sup>[3475]</sup>, IC<sub>50</sub> = 250 μmol/L<sup>[4710]</sup>); antioxidant (to determine inhibitory rates of malondialdehyde (MDA) (Lu and Liu, 1991), 10 μmol/L, InRt = 33.4%)<sup>[3891]</sup>; antioxidant (superoxide anion scavenger, 100 μmol/L, InRt < 50%)<sup>[3452]</sup>; antioxidant (0.5 mmol/L, peroxidation value = 14.7%)<sup>[4508]</sup>; antioxidant (100 μmol/L, InRt of MDA = 81.5%; 10 μmol/L, InRt of MDA = 33.9%)<sup>[5013]</sup>. Source: BO CAI *Spinacia oleracea*, CU LIU GUO *Hippophae rhamnoides* (fruit oil: content = 0.17%)<sup>[5508]</sup>, HONG HUA *Carthamus tinctorius* (flower oil: content scope of 4 origins = 0.0718%~0.1051%, mean content = 0.0865%)<sup>[5508]</sup>, LUO HUA SHENG *Arachis hypogaea*, MAO JIAN QIU LUO *Lynchnis coronaria*, MU JIN ZI *Hibiscus syriacus*, WU WEI ZI *Schisandra chinensis*, XIAO MAI *Triticum aestivum* [Syn. *Triticum vulgare*], YE ZI RANG *Cocos nucifera*, occurs in many plants (in many vegetable oils). Ref: 2, 6, 658, 660, 1521, 2189, 2570, 2587, 3452, 3475, 3813, 3846, 3874, 3891, 4121, 4211, 4464, 4506, 4508, 4710, 4787, 5013, 5483, 5507, 5508.



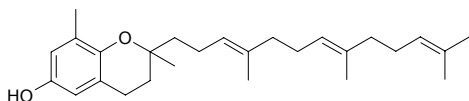


**21416 (-)- $\alpha$ -Tocospirone**

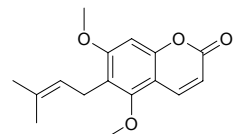
$C_{29}H_{50}O_4$  (462.72). Colorless oil,  $[\alpha]_D^{21} = -50.8^\circ$  ( $c = 0.045$ ,  $CHCl_3$ ). Source: SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). Ref: 5427.

**21417  $\delta$ -Tocotrienol**

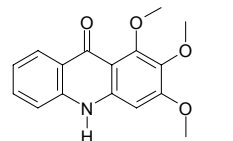
$C_{27}H_{40}O_2$  (396.62). Pharm: Antioxidant (DPPH scavenger,  $EC_{50} = 0.160\mu g/mL$ , control BHA,  $EC_{50} = 0.136\mu g/mL$ , Vitamin E,  $EC_{50} = 0.138\mu g/mL$ ). Source: DUO ZHI ZHI TENG HUANG *Garcinia virgata* (stem cortex). Ref: 3874.

**21418 Toddaculine**

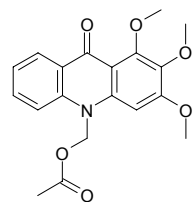
$C_{16}H_{18}O_4$  (274.32). mp  $95^\circ C$ . Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*]. Ref: 6.

**21419 Toddaliopsin A**

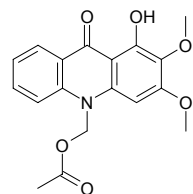
1,2,3-Trimethoxyacridone  $C_{16}H_{15}NO_4$  (285.30). Yellow glass. Pharm: Anti-inflammatory (chemiluminescence assay,  $IC_{50} = 27.3\mu g/mL$ ). Source: *Toddaliopsis bremekampii* (leaf). Ref: 5312.

**21420 Toddaliopsin B**

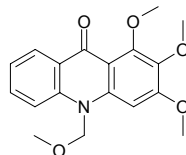
1,2,3-Trimethoxy-10-acetoxymethylacridone  $C_{19}H_{19}NO_6$  (357.37). Yellow glass. Pharm: Anti-inflammatory (chemiluminescence assay,  $IC_{50} = 48.3\mu g/mL$ ). Source: *Toddaliopsis bremekampii* (leaf). Ref: 5312.

**21421 Toddaliopsin C**

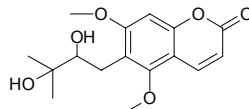
1-Hydroxy-2,3-dimethoxy-10-acetoxymethylacridone  $C_{18}H_{17}NO_6$  (343.34). Yellow glass. Pharm: Anti-inflammatory (chemiluminescence assay,  $IC_{50} = 4.21\mu g/mL$ ). Source: *Toddaliopsis bremekampii* (leaf). Ref: 5312.

**21422 Toddaliopsin D**

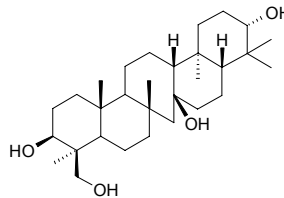
1-2,3-Trimethoxy-10-methoxymethylacridone  $C_{18}H_{19}NO_5$  (329.36). Yellow glass. Pharm: Anti-inflammatory (chemiluminescence assay,  $IC_{50} = 79.1\mu g/mL$ ). Source: *Toddaliopsis bremekampii* (leaf). Ref: 5312.

**21423 Toddalolactone**

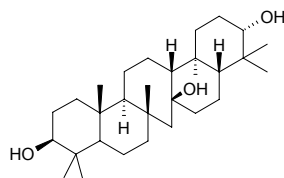
$C_{16}H_{20}O_6$  (308.33). mp  $132^\circ C$ . Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*]. Ref: 6.

**21424 Tohogeninol**

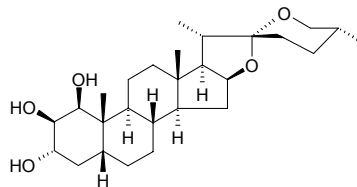
Serratetetrol  $C_{30}H_{52}O_4$  (476.75). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 660.

**21425 Tohogenol**

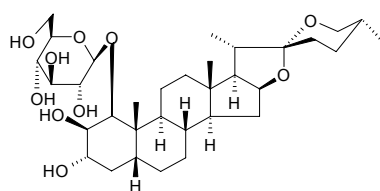
$C_{30}H_{52}O_3$  (460.75). mp  $242\text{--}244^\circ C$ . Source: GUO JIANG LONG *Lycopodium complanatum*, QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 6.

**21426 Tokorogenin**

$C_{27}H_{44}O_5$  (448.65). mp  $266\text{--}268^\circ C$ . Source: SHAN BI XIE *Dioscorea tokoro*, XI BING SHU YU *Dioscorea tenuipes*. Ref: 6, 660, 1521.

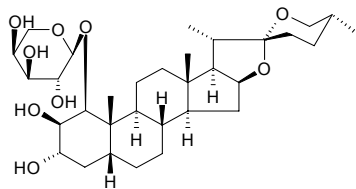
**21427 Tokorogenin-L-O- $\beta$ -D-glucopyranoside**

$C_{33}H_{54}O_{10}$  (610.79). Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660.

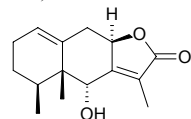


**21428 Tokoronin**

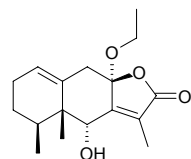
$C_{33}H_{54}O_9$  (594.79). mp 270~274°C (dec). Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660.

**21429 Toluccanolide A**

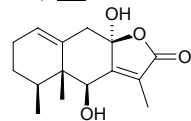
$C_{15}H_{20}O_3$  (248.32). Source: *Ligularia virgaurea* ssp. *oligocephala* (whole herb). Ref: 4981.

**21430 Toluccanolide B**

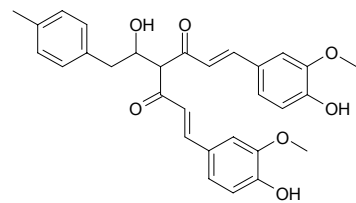
$C_{17}H_{24}O_4$  (292.38). Source: *Ligularia virgaurea* ssp. *oligocephala* (whole herb). Ref: 4981.

**21431 Toluccanolide C**

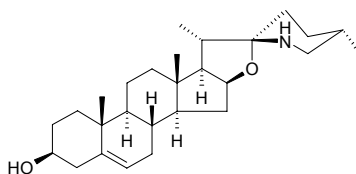
$C_{15}H_{20}O_4$  (264.32). Source: *Ligularia virgaurea* ssp. *oligocephala* (whole herb). Ref: 4981.

**21432 p-Tolyl-methyl carbinol diferuloyl methane**

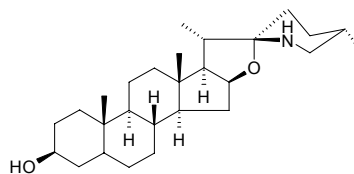
$C_{30}H_{30}O_7$  (502.57). Source: YU JIN *Curcuma aromatica*. Ref: 6.

**21433 Tomatidenol**

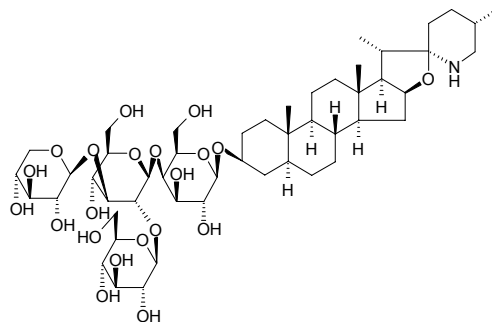
[546-40-7]  $C_{27}H_{43}NO_2$  (413.65). mp 235~238°C, 206°C. Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6, 660.

**21434 Tomatidine**

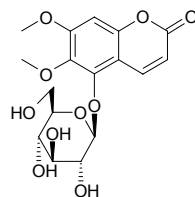
$C_{27}H_{45}NO_2$  (415.66). Pharm: Antifungal; detumescent; cholinesterase inhibitor; dermatitis suppressant (used in treatment of dermatitis). Source: FAN QIE *Lycopersicon esculentum*, AI QIE *Solanum demissum*. Ref: 658.

**21435 Tomatine**

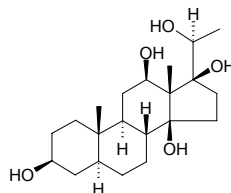
Lycopersicin; Lycopersidin; Tomatin;  $\alpha$ -Tomatine [17406-45-0]  $C_{50}H_{83}NO_{21}$  (1034.21). mp 263~268°C,  $[\alpha]_D^{20} = -18^\circ$  ( $c = 0.55$ , pyridine), soluble in MeOH, EtOH, dioxane, glycol, insoluble in water, ether, petroleum ether<sup>[5507]</sup>. Pharm: Antineoplastic (rat lymphatic sarcoma, ip); cytotoxic (MCF7 cells,  $IC_{50} = 15 \mu\text{mol/L}$ , cytotoxicity of compounds was measured using the WST-8 proliferation reagent, see M. Ishiyama, et al., *Talanta*, 1999, 44, 1299)<sup>[4317]</sup>; antihypertensive (rat, iv, 0.5~2.0mg/kg, action lasts short time); antifungal (dermatophyte, *Trichophyton mentagrophytes*, *Microsporum audouini* and *Aspergillus niger*, CIC = 0.1mg/mL, *Candida albicans*, CIC = 0.1mg/mL); antihistamine (*in vitro*); anti-inflammatory (rat, swollen foot model caused by carrageenan, im 1.0~10mg/kg or orl 15~30mg/kg); cardiotoxic (frog heart);  $LD_{50}$  (mus, iv) = 18mg/kg. Source: FAN QIE *Lycopersicon esculentum* (fruit: yield = 0.0032%fw). Ref: 4, 658, 4317, 5507.

**21436 Tomenin**

5-Hydroxy-6,7-dimethoxy-coumarin-5-O-glucoside  $C_{17}H_{20}O_{10}$  (384.34). Source: SHAN YING TAO *Prunus tomentosa*. Ref: 6.

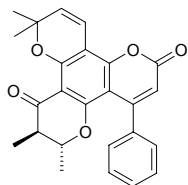
**21437 Tomentogenin**

$C_{21}H_{36}O_5$  (368.52). mp 256.5~259.5°C. Source: XU CHANG QING *Cynanchum paniculatum*. Ref: 6.

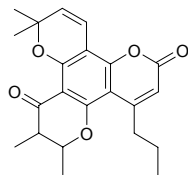


**21438 Tomentolide A**

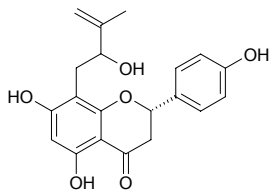
$C_{25}H_{22}O_5$  (402.45). mp 201~205°C. **Pharm:** Anti-inflammatory (rat, swollen foot model caused by carrageenan, 40mg/kg ip, InRt = 39.2%). **Source:** RONG MAO HU TONG *Calophyllum tomentosum*. **Ref:** 661.

**21439 Tomentolide B**

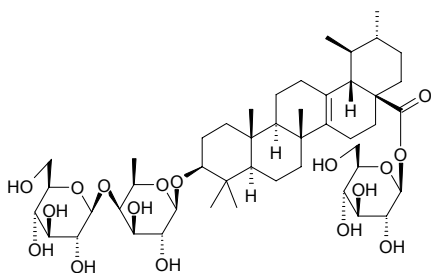
$C_{22}H_{24}O_5$  (368.43). mp 158~160°C. **Pharm:** Anti-inflammatory (rat, swollen foot model caused by carrageenan, 40mg/kg ip, InRt = 24.5%). **Source:** RONG MAO HU TONG *Calophyllum tomentosum*. **Ref:** 661.

**21440 Tomentosanol D**

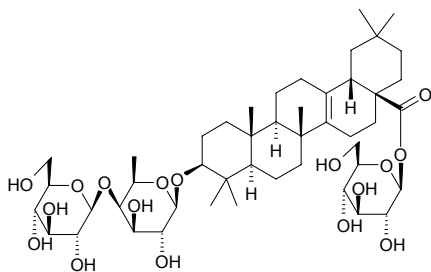
$C_{20}H_{20}O_6$  (356.38). **Pharm:** Cytotoxic (cyclooxygenase-2 inhibitor,  $IC_{50} = 9.8\mu\text{g/mL}$ ); cytotoxic (mouse mammary organ culture assay, 68% at  $10\mu\text{g/mL}$ ). **Source:** ZHEN YE XUE TONG *Macaranga conifera*. **Ref:** 5038.

**21441 Tomentoside A**

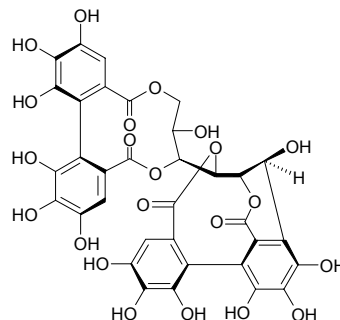
$C_{47}H_{76}O_{17}$  (913.12). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.

**21442 Tomentoside B**

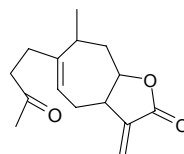
$C_{47}H_{76}O_{17}$  (913.12). **Source:** BI LU GOU TENG *Uncaria tomentosa*. **Ref:** 5341.

**21443 Tomentosin**

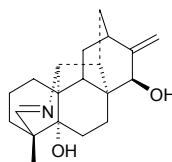
$C_{34}H_{24}O_{22}$  (784.56). Brown amorphous powder; easily soluble in MeOH and  $\text{Me}_2\text{CO}$ . **Source:** TAO JIN NIANG *Rhodomyrtus tomentosa*, JIN FEI CAO *Inula japonica*. **Ref:** 429, 660.

**21444 Tomentosin‡**

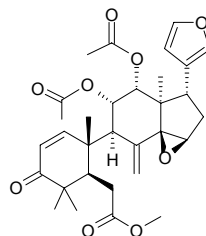
Xanthalongin  $C_{15}H_{20}O_3$  (248.32). **Source:** JIN FEI CAO *Inula japonica*. **Ref:** 660.

**21445 Tongolinine**

$C_{20}H_{27}NO_2$  (313.44). Colorless needles. **Source:** QIN LING CUI QUE HUA *Delphinium giraldii*. **Ref:** 2504.

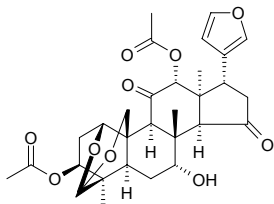
**21446 Toonacilin**

$C_{31}H_{38}O_9$  (554.65). Acicular crystals (methanol), mp 118~119°C,  $[\alpha]_D^{20} = +69^\circ$  ( $c = 1$ , chloroform). **Pharm:** Insect antifeedant (*Epilachna varivestis*). **Source:** HONG CHUN *Toona ciliata*. **Ref:** 658.

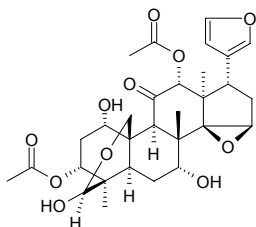


**21447 Toosendanal**

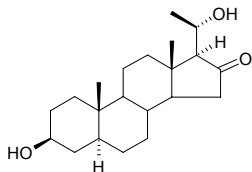
$C_{30}H_{36}O_{10}$  (556.62). Colorless needles, mp 272.0~273.5°C,  $[\alpha]_D^{18} = -32.7^\circ$  ( $c = 0.1$ , MeOH). **Pharm:** Cytotoxic (inhibits KB cell's growth,  $IC_{50} > 10\mu\text{g/mL}$ , control Adriamycin,  $IC_{50} = 0.066\mu\text{g/mL}$ ). **Source:** CHUAN LIAN PI *Melia toosendan*. **Ref:** 2314.

**21448 Toosendanin**

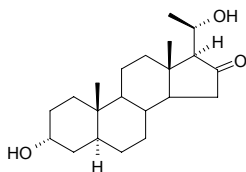
Azedarachin; Chuanliansu; 12- $\alpha$ -Acetoxymoorastatin  $C_{30}H_{38}O_{11}$  (574.63). mp 178~180°C,  $[\alpha]_D^{28} = -13.1^\circ$  (acetone), easily soluble in methanol, ethanol, acetone, slightly soluble in benzene, chloroform, almost insoluble in water.<sup>[5507]</sup> **Pharm:** Cytotoxic (inhibits KB cell's growth,  $IC_{50} = 3.82\mu\text{g/mL}$ , control Adriamycin,  $IC_{50} = 0.066\mu\text{g/mL}$ )<sup>[2314]</sup>; anthelmintic (roundworm, slow and persistent); neuromuscular blocker (mus, *in vitro*);  $LD_{50}$  (mus, ip) = 13.8mg/kg, (mus, iv) = 14.6mg/kg, (mus, sc) = 14.3mg/kg, (mus, orl) = 244.2mg/kg, (rat, sc) = 9.8mg/kg, (rbt, iv) = 4.2mg/kg. **Source:** CHUAN LIAN ZI *Melia toosendan*, CHUN BAI PI *Toona sinensis*, KU LIAN PI *Melia azedarach* (dried stem or root cortex: content = 0.4%), CHUAN LIAN PI *Melia toosendan* (dried stem or root cortex: content = 0.4%). **Ref:** 4, 660, 2314, 5501, 5507.

**21449 Toosendansterol A**

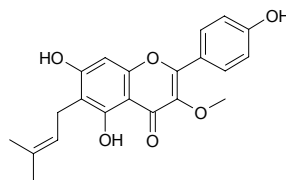
$C_{21}H_{34}O_3$  (334.50). **Source:** KU LIAN YE *Melia azedarach*. **Ref:** 660.

**21450 Toosendansterol B**

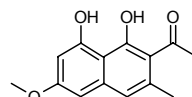
$C_{21}H_{34}O_3$  (334.50). **Source:** KU LIAN YE *Melia azedarach*. **Ref:** 660.

**21451 Topazolin**

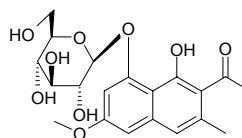
4',5,7-Trihydroxy-3-methoxy-6-prenylflavone  $C_{21}H_{20}O_6$  (368.39). **Source:** CU MAO GAN CAO *Glycyrrhiza aspera*. **Ref:** 660.

**21452 Torachryson**

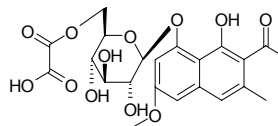
$C_{14}H_{14}O_4$  (246.27). **Source:** JUE MING ZI *Cassia tora*. **Ref:** 2.

**21453 Torachryson-8-O- $\beta$ -D-glucoside**

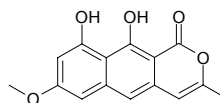
$C_{20}H_{24}O_9$  (408.41). **Pharm:** Antioxidant (DPPH scavenger,  $IC_{50} = 18.5\mu\text{g/mL}$ ; control Ascorbic acid,  $IC_{50} = 3.9\mu\text{g/mL}$ )<sup>[4711]</sup>. **Source:** ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root: yield = 0.067%dw)<sup>[4711]</sup>, DA HUANG *Rheum officinale*, HU ZHANG *Polygonum cuspidatum*. **Ref:** 2, 4711.

**21454 Torachryson-8-O- $\beta$ -D-(6'-oxayl)-glucoside**

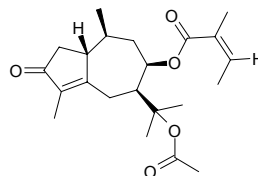
$C_{22}H_{24}O_{12}$  (480.43). **Source:** DA HUANG *Rheum officinale*. **Ref:** 2.

**21455 Toralactone**

$C_{15}H_{12}O_5$  (272.26). mp 253~254°C. **Source:** JUE MING ZI *Cassia tora*. **Ref:** 2, 6.

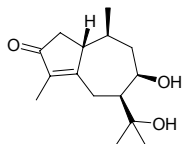
**21456 Torilin**

[13018-10-5]  $C_{22}H_{32}O_5$  (376.50). White needles, mp 76~77°C,  $[\alpha]_D^{20} = -38.92^\circ$  ( $c = 10.25$ , MeOH); mp 77~78°C,  $[\alpha]_D^{14} = -45.3^\circ$  ( $c = 0.085$ , EtOH). **Pharm:** 5 $\alpha$ -Reductase inhibitor ( $IC_{50} = (31.7\pm 4.2)\mu\text{mol/L}$ ; control Finasteride,  $IC_{50} = (0.38\pm 0.06)\mu\text{mol/L}$ ;  $\alpha$ -Linolenic acid,  $IC_{50} = (160.3\pm 24.6)\mu\text{mol/L}$ )<sup>[5398]</sup>. **Source:** HUA NAN HE SHI *Torilis japonica*. **Ref:** 6, 5398.

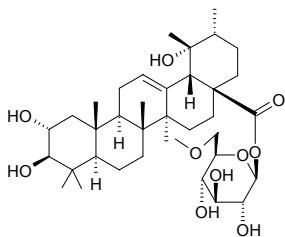


**21457 Torilolone**

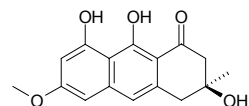
$C_{15}H_{24}O_3$  (252.36). mp 136~137°C. Source: HUA NAN HE SHI *Torilis japonica*. Ref: 6.

**21458 Tormentic acid-6-methoxy  $\beta$ -D-glucopyranosyl ester**

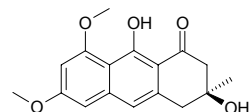
$C_{37}H_{60}O_{10}$  (664.88). Source: JIN YING ZI *Rosa laevigata*. Ref: 660.

**21459 Torosachryson**

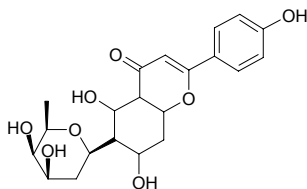
$C_{16}H_{16}O_5$  (288.30). Source: DUN YE JUE MING *Cassia obtusifolia*, *Cortinarius* spp. Ref: 660, 3799.

**21460 Torosachryson 8-O-methyl ether**

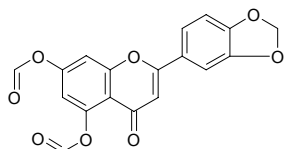
$C_{17}H_{18}O_5$  (302.33). Source: *Cortinarius* spp. Ref: 3799.

**21461 Torosaflavone A**

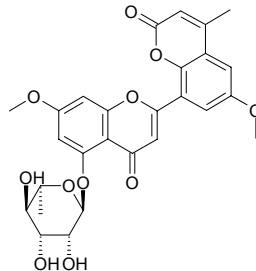
$C_{21}H_{26}O_8$  (406.44). Source: ER RUI HE LIAN DOU *Driedmaria diandra* [Syn. *Driedmaria cordata* ssp. *diandra*] (whole herb: yield = 0.00016%dw). Ref: 4758.

**21462 Torreyaflavone**

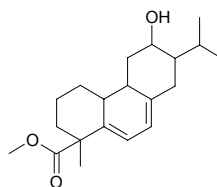
$C_{18}H_{10}O_8$  (354.28). Source: FEI SHU *Torreya grandis* (twig and leaf). Ref: 660.

**21463 Torreyaflavonoid**

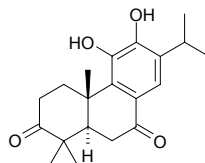
$C_{27}H_{26}O_{11}$  (526.50). Source: FEI SHU *Torreya grandis* (twig and leaf). Ref: 660.

**21464 Torreyagrandate**

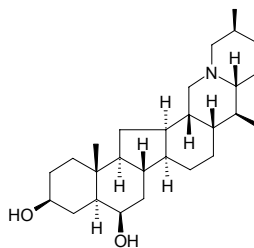
$C_{20}H_{30}O_3$  (318.46). Source: FEI SHU *Torreya grandis* (twig and leaf). Ref: 660.

**21465 Torreayunnin**

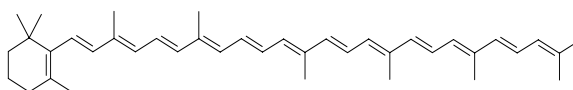
$C_{20}H_{26}O_4$  (330.43). Pale yellow needles (from acetone), mp 232°C,  $[\alpha]_D^{19.8} = +87.09^\circ$  ( $c = 0.24$ , MeOH). Source: YUN NAN FEI SHU *Torreya yunnanensis* (leaf and twig: yield = 0.000044%dw). Ref: 4707.

**21466 Tortifoline**

$C_{27}H_{45}NO_2$  (415.67). Source: XI BEI MU *Fritillaria imperialis* (bulb). Ref: 4217.

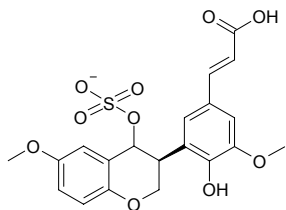
**21467 Torulene**

$C_{40}H_{54}$  (534.87). Source: occurs in many fungi. Ref: 658.

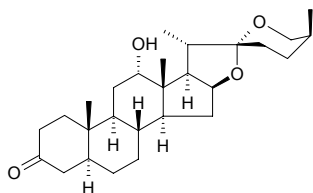


**21468 Torvanol A**

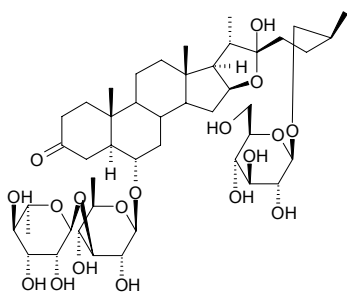
$C_{20}H_{19}O_{10}S^-$  (451.43). Amorphous powder, mp > 300°C,  $[\alpha]_D^{29} = -50^\circ$  ( $c = 0.280$ ,  $H_2O$ ). Source: SHUI QIE *Solanum torvum*. Ref: 1999.

**21469 Torvogenin**

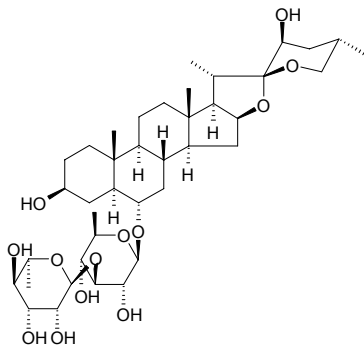
Torvogenin  $C_{27}H_{42}O_4$  (430.63). Source: SHUI QIE *Solanum torvum*. Ref: 6.

**21470 Torvoside H**

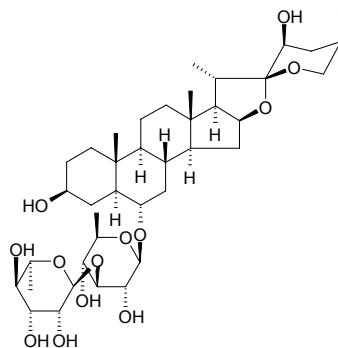
(25*S*)-26-*O*-β-*D*-Glucopyranosyl-6α-26-dihydroxy-5α-spirosten-3-one 6-*O*-[α-*L*-rhamnopyranosyl-(1→3)-β-*D*-quinovopyranoside]  $C_{45}H_{74}O_{18}$  (903.08). Amorphous powder, mp 170–172°,  $[\alpha]_D^{29} = -58.15^\circ$  ( $c = 0.114$ , MeOH). Source: SHUI QIE *Solanum torvum*. Ref: 1999.

**21471 Torvoside J**

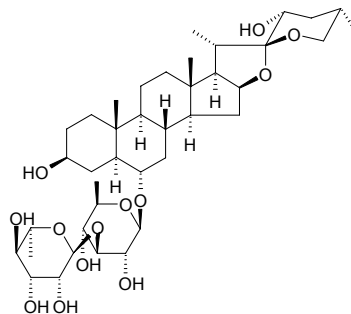
6-*O*-α-*L*-Ghamnopyranosyl-(1→3)-β-*D*-quinovopyranosyl-(22*R*,23*S*,25*S*)-3β,6α,23-trihydroxy-5α-spirostan-3-one  $C_{39}H_{64}O_{13}$  (740.94). Amorphous powder,  $[\alpha]_D = -53.1^\circ$  ( $c = 0.4$ , MeOH). Source: SHUI QIE *Solanum torvum* (fruit). Ref: 4503.

**21472 Torvoside K**

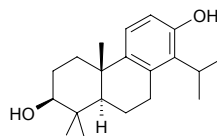
6-*O*-α-*L*-Ghamnopyranosyl-(1→3)-β-*D*-quinovopyranosyl (22*R*,23*S*,25*R*)-3β,6α,23-trihydroxy-5α-spirostan-3-one  $C_{39}H_{64}O_{13}$  (740.94). Amorphous powder,  $[\alpha]_D = -59.3^\circ$  ( $c = 0.4$ , MeOH). Source: SHUI QIE *Solanum torvum* (fruit). Ref: 4503.

**21473 Torvoside L**

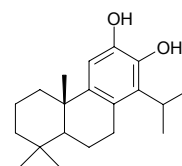
6-*O*-α-*L*-Rhamnopyranosyl-(1→3)-β-*D*-quinovopyranosyl (22*R*,23*R*,25*S*)-3β,6α,23-trihydroxy-5α-spirostan-3-one  $C_{39}H_{64}O_{13}$  (740.94). Amorphous powder,  $[\alpha]_D = -3.8^\circ$  ( $c = 0.4$ , MeOH). Source: SHUI QIE *Solanum torvum* (fruit). Ref: 4503.

**21474 Totaradiol**

$C_{20}H_{30}O_2$  (302.46). Source: ZHU BAI GEN *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 660.

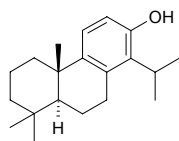
**21475 (+)-8,11,13-Totaratriene-12,13-diol**

$C_{20}H_{30}O_2$  (302.46). Orange crystalline solid,  $[\alpha]_D^{26.5} = +95.0^\circ$  ( $c = 0.842$ ,  $CHCl_3$ ). Pharm: Antiplasmodial (*in vitro Plasmodium falciparum* K1,  $IC_{50} = (0.83 \pm 0.07) \mu g/mL$ , Chloroquine  $IC_{50} = (0.18 \pm 0.01) \mu g/mL$ ; D10,  $IC_{50} = (0.76 \pm 0.09) \mu g/mL$ , Chloroquine  $IC_{50} = (0.012 \pm 0.001) \mu g/mL$ ); cytotoxic (*in vitro* Chinese hamster ovarian CHO cells,  $IC_{50} = (51.45 \pm 7.76) \mu g/mL$ ; control Daunorubicin  $IC_{50} = (1.53 \pm 0.15) \mu g/mL$ ; HepG2  $IC_{50} = (59.01 \pm 5.76) \mu g/mL$ , Daunorubicin  $IC_{50} = (1.46 \pm 0.20) \mu g/mL$ ). Source: NAN FEI GOU MA *Harpagophytum procumbens*. Ref: 5438.

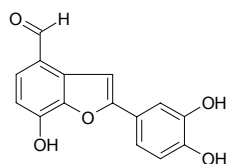


**21476 Totarol**

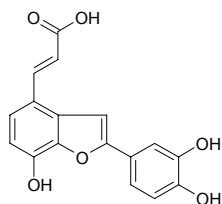
C<sub>20</sub>H<sub>30</sub>O (286.46). mp 132°C. Source: LUO HAN SONG YE *Podocarpus macrophyllus*. Ref: 6.

**21477 Tournefolal**

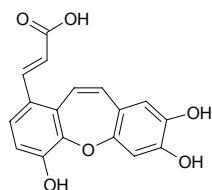
7-Hydroxy-2-(3,4-dihydroxyphenyl)benzofuran-4-al C<sub>15</sub>H<sub>10</sub>O<sub>5</sub> (270.24). Pale yellow crystals (ethanol), mp 210–212°C. Pharm: Antioxidant (*in vitro*, Cu<sup>2+</sup>-induced LDL peroxidation assay, IC<sub>50</sub> = 4.3 μmol/L; control Probuco, IC<sub>50</sub> = 4.7 μmol/L). Source: ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00013%). Ref: 4628.

**21478 Tournefolic acid A**

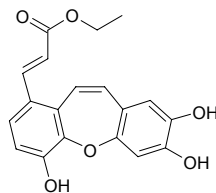
7-Hydroxy-2-(3,4-dihydroxyphenyl)-4-(1*E*-propenoyl-3-oic acid)benzofuran C<sub>17</sub>H<sub>12</sub>O<sub>6</sub> (312.28). Yellow crystals (EtOH), mp 197–198°C. Pharm: Antioxidant (*in vitro*, Cu<sup>2+</sup>-induced LDL peroxidation assay, IC<sub>50</sub> = 4.81 μmol/L; control Probuco, IC<sub>50</sub> = 4.7 μmol/L). Source: ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00011%). Ref: 4628.

**21479 Tournefolic acid B**

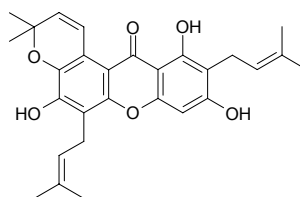
3-(4,7,8-Trihydroxydibenzo-[*b,f*]oxepin-1-yl)acrylic acid C<sub>17</sub>H<sub>12</sub>O<sub>6</sub> (312.28). Yellow crystals (EtOH), mp 242–245°C. Pharm: Antioxidant (*in vitro*, Cu<sup>2+</sup>-induced LDL peroxidation assay, IC<sub>50</sub> = 2.32 μmol/L; control Probuco, IC<sub>50</sub> = 4.7 μmol/L). Source: ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00063%). Ref: 4628.

**21480 Tournefolic acid B ethyl ester**

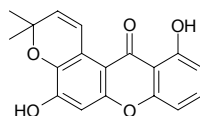
C<sub>19</sub>H<sub>16</sub>O<sub>6</sub> (340.34). Yellow crystals (EtOH), mp 225–227°C. Pharm: Antioxidant (*in vitro*, Cu<sup>2+</sup>-induced LDL peroxidation assay, IC<sub>50</sub> = 0.51 μmol/L; control Probuco, IC<sub>50</sub> = 4.7 μmol/L). Source: ZI DAN TENG *Tournefortia sarmentosa* (stem: yield = 0.00075%). Ref: 4628.

**21481 Tovophyllin A**

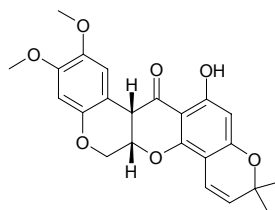
C<sub>28</sub>H<sub>30</sub>O<sub>6</sub> (462.55). Source: DAO NIAN ZI *Garcinia mangostana* (fruit hull), TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit). Ref: 3066, 5319.

**21482 Tovoxanthone**

C<sub>18</sub>H<sub>14</sub>O<sub>5</sub> (310.31). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**21483 α-Toxicarol**

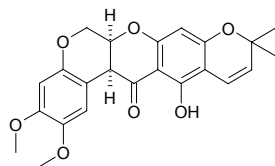
[82-09-7] C<sub>23</sub>H<sub>22</sub>O<sub>7</sub> (410.43). Yellowish solid, mp 98–102°C; mp (–) 125–127°C, (±) 219–223°C. Pharm: Antineoplastic (Inhibition of DMBA-induced preneoplastic lesions *in vitro*, MMOC assay, IC<sub>50</sub> > 47 μmol/L; control Sulforaphane, IC<sub>50</sub> = 11 μmol/L)<sup>[4718]</sup>; cytotoxic (mouse mammary organ culture assay, 80% at 10 μg/mL)<sup>[5038]</sup>; nematocide (*in vitro*, 0.1 mg/mL, larva *Toxocara canis*, after 6h cultivation, RM = 4h, after 24h, RM = 0); pesticide; anti-tumor promotor (*in vivo*, mouse skin tumor, inhibits TPA-induced EBV-EA activation, 100 mol ratio/32 pmol TPA, EBV-EA positive cells = 71.9% viability, positive control β-Carotene, EBV-EA positive cells = 82.7% viability)<sup>[4982]</sup>. Source: DU HUI MAO DOU *Tephrosia toxicaria* (stem: yield = 0.023% dw)<sup>[4718]</sup>, HUI YE GEN *Tephrosia purpurea*, MAO YU TENG *Derris elliptica*, YU TENG *Derris trifoliata*, YU TENG *Derris trifoliata* (stem). Ref: 6, 900, 4718, 4982, 5038.



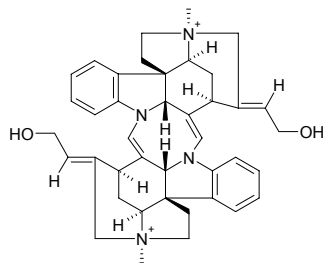
**21484  $\beta$ -Toxicarol**

$C_{23}H_{22}O_7$  (410.43). mp ( $\pm$ ) 169~170°C. Source: YU TENG *Derris trifoliata*.

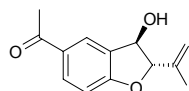
Ref: 6.

**21485 Toxiferine I**

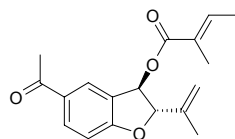
$C_{40}H_{46}N_4O_2^{2+}$  (614.84). Dichloride:  $C_{40}H_{46}Cl_2N_4O_2$  crystals,  $[\alpha]_D^{22} = -546^\circ$  ( $c = 0.30$ ); di-bitter acid salt:  $C_{52}H_{50}N_{10}O_{16}$ , dark yellow tiny lamellar crystals, mp 257~260°C (dec). Pharm: Paralyzes muscle (monkey iv,  $ED_{50} = 5.5$  or  $6.5 \mu\text{g}/\text{kg}$  bi-chloride, gpg, iv,  $ED_{50} = 9.35 \mu\text{g}/\text{kg}$ ); muscle relaxant (neuromuscular blocker of competitive type);  $LD_{50}$  (monkey, iv) =  $8.9 \mu\text{g}/\text{kg}$ , (monkey, sc) =  $17.82 \mu\text{g}/\text{kg}$ , (gpg, sc) =  $14.4 \mu\text{g}/\text{kg}$ . Source: DU MA QIAN *Strychnos toxifera*, FU SHI MA QIAN ZI *Strychnos froesii*. Ref: 661.

**21486 Toxol**

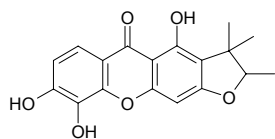
$C_{13}H_{14}O_3$  (218.26). Pharm: Antibacterial; antineoplastic. Source: family Asteraceae spp. Ref: 658.

**21487 Toxyl angelate**

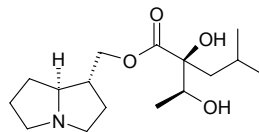
$C_{18}H_{20}O_4$  (300.36). Pharm: Antineoplastic (P<sub>388</sub>). Source: family Asteraceae spp. Ref: 658.

**21488 Toxyloxanthone C**

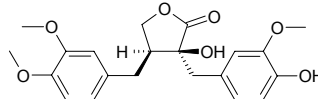
$C_{18}H_{16}O_6$  (328.32). Pharm: Antifungal (*Candida glabrata*, *Cryptococcus neoformans* and *Aspergillus fumigatus*, MIC =  $8 \mu\text{g}/\text{mL}$ )<sup>[4713]</sup>. Source: GOU JI *Cudrania cochinchinensis* (root: yield =  $0.00023\% \text{dw}$ <sup>[3025]</sup>; yield =  $0.00039\% \text{dw}$ <sup>[4713]</sup>). Ref: 3025, 4713.

**21489 Trachelanthamidine 2S-hydroxy-2S-(1S-hydroxyethyl)-4-methylpentanoyl ester**

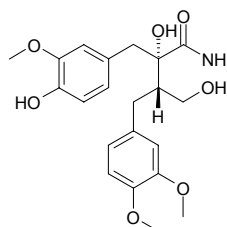
$C_{16}H_{29}NO_4$  (299.41). Yellow oil,  $[\alpha]_D^{25} = +2.0^\circ$  ( $c = 0.1$ , MeOH). Source: CU MAO NIU SHE CAO *Anchusa strigosa*. Ref: 5441.

**21490 Trachelogenin**

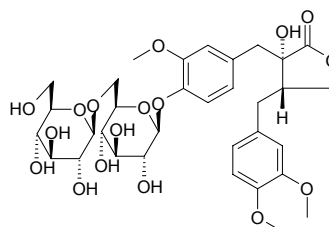
$C_{21}H_{24}O_7$  (388.42). Pharm: Calcium antagonist; cytotoxic (lymphoma cells). Source: WU ZHAO LONG *Ipomoea cairica* [Syn. *Ipomoea palmata*]. Ref: 658.

**21491 Trachelogenin amide**

$C_{21}H_{27}NO_7$  (405.45). White amorphous solid,  $[\alpha]_D^{25} = -9^\circ$  ( $c = 0.55$ , MeOH). Source: LUO SHI TENG *Trachelospermum jasminoides* (leaf and stem). Ref: 5051.

**21492 Trachelogenin 4'-O- $\beta$ -gentiobioside**

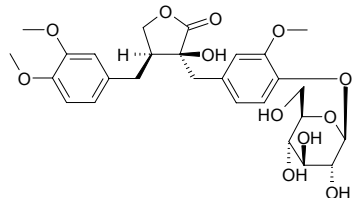
$C_{33}H_{44}O_{17}$  (712.71). Source: LUO SHI TENG *Trachelospermum jasminoides* (leaf and stem). Ref: 5051.



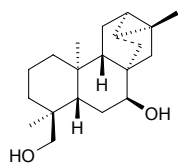


**21493 Tracheloside**

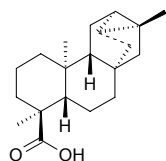
$C_{27}H_{34}O_{12}$  (550.56). mp 168~170°C. **Pharm:** Activity of trachelogenin: calcium antagonist (gpg,  $K^+$ -induced contraction of colon bands,  $IC_{50}$  = 1.1  $\mu$ mol/L); antihypertensive (spontaneous hypertensive rat, strong and permanent action); cAMP phosphodiesterase inhibitor ( $IC_{50}$  = 227  $\mu$ mol/L); antihistamine (inhibits histamine release, rat mastocyte, ConA-reduced histamine release,  $IC_{50}$  = 19  $\mu$ mol/L); platelet aggregation inhibitor (due to ADP, 0.5mg/mL InRt = 35.4%); PAF antagonist; smooth muscle relaxant (tracheal, EC = 0.1mg/mL); cytotoxic (mus, lymphoma L5178Y cell,  $ED_{50}$  = 2.0  $\mu$ mol/L); anti-HIV (*in vitro*, inhibits replication of HIV-1, 0.5  $\mu$ mol/L, InRt to HIV-1 protein p17 and p24 = 60%~70%). **Source:** LUO SHI TENG *Trachelospermum jasminoides*, RI BEN LUO SHI *Trachelospermum asiaticum* (the compound was isolated from the plant by Chugi Kono in 1958)<sup>[5505]</sup>. **Ref:** 6, 1757, 1758, 1759, 1760, 1761, 1762, 5505.

**21494 Trachyloban-7 $\beta$ ,18-diol**

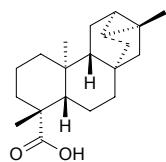
$C_{20}H_{32}O_2$  (304.48). **Source:** ZAN BI XI BA DOU *Croton zambesicus*. **Ref:** 4552.

**21495 Trachyloban-18-oic acid**

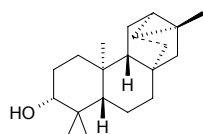
$C_{20}H_{30}O_2$  (302.46). **Source:** CHANG SUI BA DOU *Croton macrostachys*. **Ref:** 4552.

**21496 Trachyloban-19-oic acid**

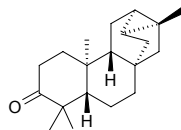
$C_{20}H_{30}O_2$  (302.46). **Source:** CHANG SUI BA DOU *Croton macrostachys*. **Ref:** 4552.

**21497 ent-Trachyloban-3 $\beta$ -ol**

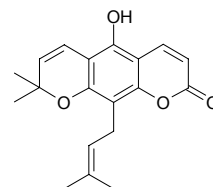
$C_{20}H_{32}O$  (288.48). **Pharm:** Cytotoxic (hmn cervical carcinoma cells,  $IC_{50}$  = 7.3  $\mu$ g/mL). **Source:** ZAN BI XI BA DOU *Croton zambesicus*. **Ref:** 4552.

**21498 ent-Trachyloban-3-one**

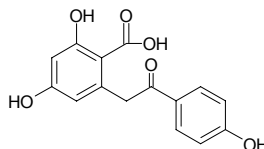
$C_{20}H_{30}O$  (286.46). Colorless oil,  $[\alpha]_D^{22} = -37^\circ$  ( $c = 0.1$ ,  $CH_2Cl_2$ ). **Pharm:** Cytotoxic (HeLa,  $IC_{50}$  = (9.6 $\pm$ 1.6)  $\mu$ g/mL, control Camptothecin,  $IC_{50}$  = 0.5  $\mu$ mol/mL; HL-60,  $IC_{50}$  = (12.4 $\pm$ 1.9)  $\mu$ g/mL, Camptothecin,  $IC_{50}$  = 0.1  $\mu$ mol/mL; WI-38,  $IC_{50}$  = (23.8 $\pm$ 3.2)  $\mu$ g/mL, Camptothecin,  $IC_{50}$  = 0.6  $\mu$ mol/mL). **Source:** ZAN BI XI BA DOU *Croton zambesicus* (leaf). **Ref:** 3807.

**21499 Trachyphyllin**

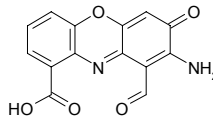
$C_{19}H_{20}O_4$  (312.37). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (45.3 $\pm$ 1.5)% (viability > 80%),  $\beta$ -Carotene, EBV-EA-positive cells = (34.3 $\pm$ 1.1)% (viability > 80), Curcumin, EBV-EA-positive cells = (22.8 $\pm$ 1.8)% (viability > 80%), compound  $IC_{50}$  = 467mol ratio/32 pmol TPA,  $\beta$ -Carotene,  $IC_{50}$  = 400mol ratio/32 pmol TPA, Curcumin,  $IC_{50}$  = 341mol ratio/32 pmol TPA). **Source:** LI HUA JU *Citrus tachibana*, *Citrus tamarana*. **Ref:** 5048.

**21500 Tragopogonic acid**

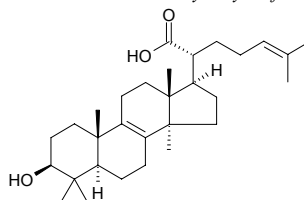
$C_{15}H_{12}O_6$  (288.26). Colorless crystals, 161°C (dec). **Pharm:** Antioxidant (DPPH scavenger,  $IC_{50}$  = (14.22 $\pm$ 3.79)  $\mu$ g/mL; control Ascorbic acid,  $IC_{50}$  = (2.49 $\pm$ 0.32)  $\mu$ g/mL; Caffeic acid,  $IC_{50}$  = (1.78 $\pm$ 0.03)  $\mu$ g/mL; Chlorogenic acid,  $IC_{50}$  = (1.28 $\pm$ 0.38)  $\mu$ g/mL). **Source:** SUAN YE PO LUO MEN SHEN *Tragopogon porrifolius* (subaerial parts). **Ref:** 5307.

**21501 Tramesanguin**

$C_{14}H_8N_2O_5$  (284.23). **Source:** HONG SHUAN JUN *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*]. **Ref:** 660.

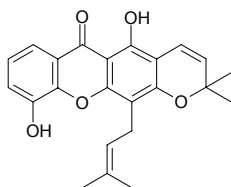
**21502 Trametenolic acid**

Trametenolic acid B  $C_{30}H_{48}O_3$  (456.72). **Source:** FU LING *Poria cocos*, YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp). **Ref:** 660, 4414.

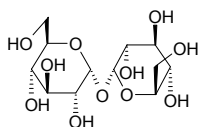


**21503 Trapezifolixanthone**

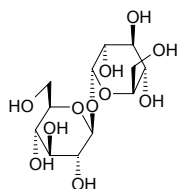
Toxyloxanthone A [50816-23-4]  $C_{23}H_{22}O_5$  (378.43). **Pharm:** Antitubercular (*Mycobacterium tuberculosis*, MIC = 12.5 $\mu$ g/mL). **Source:** DAO NIAN ZI *Garcinia mangostana* (fruit). **Ref:** 4358.

**21504 Trehalose ( $\alpha:\alpha$ )**

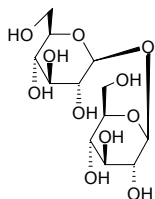
$C_{12}H_{22}O_{11}$  (342.30). mp 97°C (containing water), 210°C (anhydrite). **Source:** JUAN BAI *Selaginella tamariscina*, MO GU *Agaricus campestris*, XIANG XUN *Lentinus edodes*, YAN ZHOU JUAN BAI *Selaginella involvens*, YUAN CAN ZI *Bombyx mori*. **Ref:** 6.

**21505 Trehalose ( $\alpha:\beta$ )**

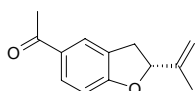
$C_{12}H_{22}O_{11}$  (342.30). mp 210~220°C. **Source:** JUAN BAI *Selaginella tamariscina*, MO GU *Agaricus campestris*, XIANG XUN *Lentinus edodes*, YAN ZHOU JUAN BAI *Selaginella involvens*, YUAN CAN ZI *Bombyx mori*. **Ref:** 6.

**21506 Trehalose ( $\beta:\beta$ )**

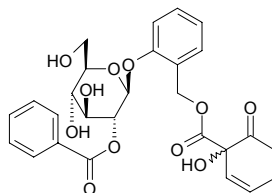
$C_{12}H_{22}O_{11}$  (342.30). mp 135~140°C. **Source:** JUAN BAI *Selaginella tamariscina*, MO GU *Agaricus campestris*, XIANG XUN *Lentinus edodes*, YAN ZHOU JUAN BAI *Selaginella involvens*, YUAN CAN ZI *Bombyx mori*. **Ref:** 6.

**21507 Tremetone**

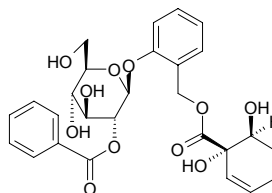
$C_{13}H_{14}O_2$  (202.26). **Pharm:** Causes hmn mammary diseases; fish toxin. **Source:** QIAN MA YE ZE LAN *Eupatorium urticaefolium*, ZHOU YE ZE LAN *Eupatorium rugosum*, *Ligularia* sp., *Grindelia* sp., *Liatis* sp. **Ref:** 658.

**21508 Tremulacin**

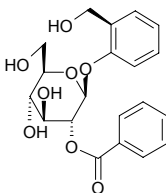
$C_{27}H_{28}O_{11}$  (528.52). Colorless crystals (ethyl acetate), mp 122~123°C; Colorless prisms, mp 122~125°C. **Pharm:** Antiviral (HSV-1, EC<sub>50</sub> = 87 $\mu$ mol/L; HSV-2, EC<sub>50</sub> = 86 $\mu$ mol/L; HIV-1, EC<sub>50</sub> = 52 $\mu$ mol/L; control Acyclovir, HSV-1, EC<sub>50</sub> = 1.1 $\mu$ mol/L; HSV-2, EC<sub>50</sub> = 1 $\mu$ mol/L; control Azidothymidine, HIV-1, EC<sub>50</sub> = 0.02 $\mu$ mol/L)<sup>[4742]</sup>; antipyretic; diuretic; used in treatment of trachitis. **Source:** CHAN YANG *Populus tremuloides*, OU ZHOU SHAN YANG *Populus tremula*, TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.438%)<sup>[4742]</sup>, YI YE YANG *Populus heterophylla*. **Ref:** 661, 4742.

**21509 Tremulacinal**

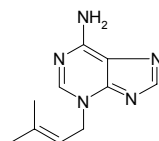
$C_{27}H_{30}O_{11}$  (530.53). Colorless amorphous mass. **Pharm:** Antiviral inactive (HSV-1 and HSV-2). **Source:** TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.114%). **Ref:** 4742.

**21510 Tremuloidin**

$C_{20}H_{22}O_8$  (390.39). Colorless powder, mp 162~168°C. **Pharm:** Antiviral inactive (HSV-1 and HSV-2)<sup>[4742]</sup>. **Source:** TIAN LIAO MU *Homalium cochinchinensis* (root cortex: yield = 0.002%), CHAN YANG *Populus tremuloides*, MAO BAI YANG *Populus tomentosa*. **Ref:** 660, 4742.

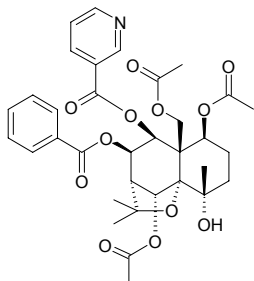
**21511 Triacanthine**

Triacanthin [10091-84-6]  $C_{10}H_{13}N_5$  (203.25). mp 228~229°C. **Pharm:** Antineoplastic (Zajdela ascites carcinoma); antispasmodic (gpg); coronary vasodilator (dog, iv); vulnerary; inhibits respiration; antihypertensive (cat, rbt, and gpg iv); enhances myocardial contractility (rbt, heart, *in vitro*); sedative (mus); slows heart rate ((rbt, iv, increases amplitude and controlling rhythm); used in treatment of hypertension, bronchial asthma, ulcer of digestive tract, and chronic enteritis; LD<sub>50</sub> (mus iv) = 147mg/kg. **Source:** SAN CI ZAO JIA *Gleditsia triacanthos*, WEN ROU ZHI XIE MU *Holarrhena mitis*, ZAO JIA *Gleditsia sinensis* [Syn. *Gleditsia horrida*], ZAO JIA YE *Gleditsia sinensis* [Syn. *Gleditsia horrida*], ZAO JIA GEN PI *Gleditsia sinensis* [Syn. *Gleditsia horrida*]. **Ref:** 4, 658.



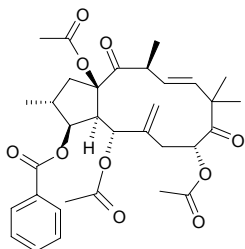
**21512 1 $\beta$ ,5 $\alpha$ ,11-Triacetoxo-7 $\beta$ -benzoyl-4 $\alpha$ -hydroxy-8 $\beta$ -nicotinoyl-dihydroagarofuran**

C<sub>34</sub>H<sub>39</sub>NO<sub>12</sub> (653.69). Amorphous powder,  $[\alpha]_D^{25} = -52.4^\circ$  ( $c = 0.4$ , MeOH). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 758.



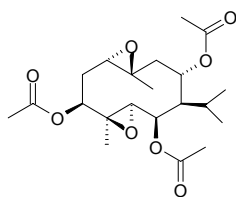
**21513 (2R\*,3S\*,4R\*,5R\*,8R\*,13S\*,15R\*)-5,8,15-Triacetoxo-3-benzoyloxy-9,14-dioxajatropha-6(17),11E-diene**

C<sub>33</sub>H<sub>40</sub>O<sub>10</sub> (596.68). Colorless to white needles. Source: HAI BO NA DA JI *Euphorbia hyberna*. Ref: 2153.



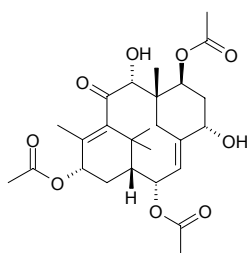
**21514 3 $\beta$ ,6 $\beta$ ,8 $\alpha$ -Triacetoxo-4 $\beta$ ,5 $\alpha$ :1 $\alpha$ ,10 $\beta$ -diepoxygermacrane**

C<sub>21</sub>H<sub>32</sub>O<sub>8</sub> (412.48). Colorless gum,  $[\alpha]_D^{26} = +5.0^\circ$  ( $c = 2.0$ , CHCl<sub>3</sub>). Source: NIAN MAO SHU WEI CAO *Salvia roborowskii*. Ref: 5439.



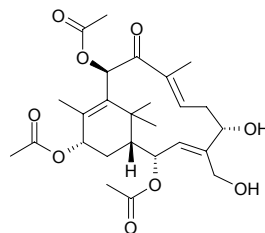
**21515 2 $\alpha$ ,7 $\beta$ ,13 $\alpha$ -Triacetoxo-5 $\alpha$ ,9 $\alpha$ -dihydroxy-2(3→20)abeotaxa-4(20),11-dien-10-one**

C<sub>26</sub>H<sub>36</sub>O<sub>9</sub> (492.57). Colorless gum,  $[\alpha]_D^{24} = -13^\circ$  ( $c = 0.01$ , CHCl<sub>3</sub>). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (seed). Ref: 3991.



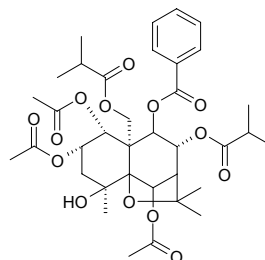
**21516 (3E,7E)-2 $\alpha$ ,10 $\beta$ ,13 $\alpha$ -Triacetoxo-5 $\alpha$ ,20-dihydroxy-3,8-seco-taxa-3,7,11-trien-9-one**

C<sub>26</sub>H<sub>36</sub>O<sub>9</sub> (492.57). mp 77~78°C,  $[\alpha]_D = -60^\circ$  (CHCl<sub>3</sub>). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.



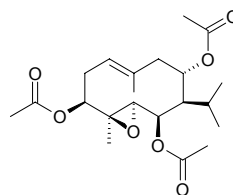
**21517 1 $\alpha$ ,2 $\alpha$ ,6 $\beta$ -Triacetoxo-8 $\alpha$ ,13-diisobutanoyloxy-9 $\beta$ -benzoyloxy-4 $\beta$ -hydroxy- $\beta$ -dihydroagarofuran**

C<sub>36</sub>H<sub>48</sub>O<sub>14</sub> (704.78). White amorphous powder, mp 94~95°C,  $[\alpha]_D^{24} = -34.3^\circ$  ( $c = 0.35$ , CHCl<sub>3</sub>). Pharm: Insecticidal (larval of *Mythimna separata*, KD<sub>50</sub> = 271.5 $\mu$ g/g). Source: DIAO GAN MA *Celastrus angulatus* (root cortex: yield = 0.00032%dw). Ref: 3044.



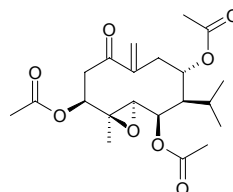
**21518 3 $\beta$ ,6 $\beta$ ,8 $\alpha$ -Triacetoxo-4 $\beta$ ,5 $\alpha$ -epoxygermacr-1(10)E-ene**

C<sub>21</sub>H<sub>32</sub>O<sub>7</sub> (396.48). Colorless gum,  $[\alpha]_D^{26} = -12.7^\circ$  ( $c = 16.5$ , CHCl<sub>3</sub>). Source: NIAN MAO SHU WEI CAO *Salvia roborowskii*. Ref: 5439.



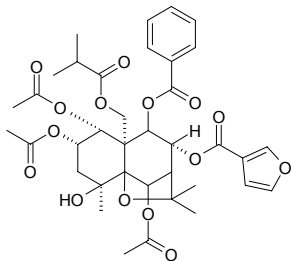
**21519 3 $\beta$ ,6 $\beta$ ,8 $\alpha$ -Triacetoxo-4 $\beta$ ,5 $\alpha$ -epoxy-1-oxogermacr-10(14)-ene**

C<sub>21</sub>H<sub>30</sub>O<sub>8</sub> (410.47). Colorless gum,  $[\alpha]_D^{26} = +29.0^\circ$  ( $c = 2.0$ , CHCl<sub>3</sub>). Source: NIAN MAO SHU WEI CAO *Salvia roborowskii*. Ref: 5439.



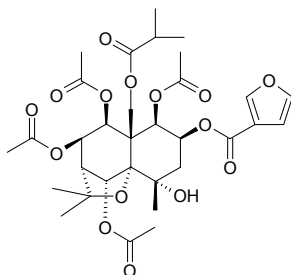
**21520 1 $\alpha$ ,2 $\alpha$ ,6 $\beta$ -Triacetoxo-8 $\alpha$ -( $\beta$ -furancarboxyloxy)-9 $\beta$ -benzoyloxy-13-isobutanoyloxy-4 $\beta$ -hydroxy- $\beta$ -dihydroagarofuran**

C<sub>37</sub>H<sub>44</sub>O<sub>15</sub> (728.75). White amorphous powder, mp 109~110°C, [ $\alpha$ ]<sub>D</sub><sup>24</sup> = -25.9° (c = 0.58, CHCl<sub>3</sub>). **Pharm:** Insecticidal (larval of *Mythimna separata*, KD<sub>50</sub> = 58.9 $\mu$ g/g). **Source:** DIAO GAN MA *Celastrus angulatus* (root cortex: yield = 0.00048%dw). **Ref:** 3044.



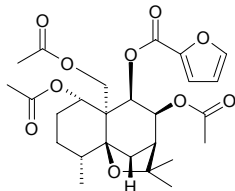
**21521 1 $\beta$ ,7 $\beta$ ,8 $\alpha$ -Triacetoxo-2 $\beta$ -furanoyl-4 $\alpha$ -hydroxy-11-isobutyryloxy-dihydroagarofuran**

C<sub>32</sub>H<sub>42</sub>O<sub>15</sub> (666.68). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -13.1° (c = 1.7, MeOH). **Pharm:** Immunosuppressant (inhibits lymphocyte transformation, 80 $\mu$ g/mL, InRt = 28%, control Dexamethasone, 50 $\mu$ g/mL, InRt = 61%). **Source:** LEI GONG TENG *Tripterygium wilfordii* (xylem). **Ref:** 4466.



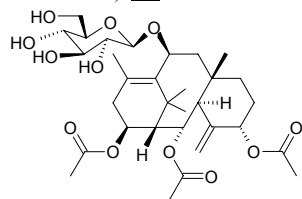
**21522 1 $\alpha$ ,8 $\beta$ ,14-Triacetoxo-9 $\beta$ -furoxyldihydro- $\beta$ -agarofuran**

C<sub>26</sub>H<sub>34</sub>O<sub>10</sub> (506.55). White amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -8.68° (c = 0.32, MeOH). **Pharm:** Intestinal smooth muscle relaxant (*in vitro*, rat ileum, 1 $\mu$ g/mL, relaxant effect = (30.6 $\pm$ 7.2)%, control Papaverine, relaxant effect = (28.6 $\pm$ 7.3)%, p<0.05). **Source:** DENG YOU TENG ZI *Celastrus paniculatus*. **Ref:** 5002.



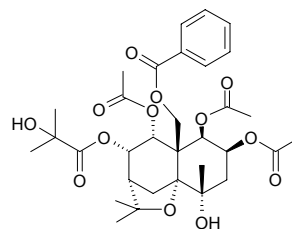
**21523 2 $\alpha$ ,5 $\alpha$ ,14 $\beta$ -Triacetoxo-10 $\beta$ -O-( $\beta$ -D-glucopyranosyl)taxa-4(20),11-diene**

C<sub>32</sub>H<sub>48</sub>O<sub>12</sub> (624.73). Amorphous solid, [ $\alpha$ ]<sub>D</sub><sup>22</sup> = +39° (c = 0.2, CHCl<sub>3</sub>). **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle: yield = 0.00008%dw). **Ref:** 4734.



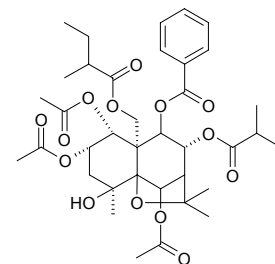
**21524 1 $\beta$ ,2 $\beta$ ,9 $\alpha$ -Triacetoxo-8 $\alpha$ -(2-hydroxy-isobutyryoxy)-15-benzoyloxy-4 $\alpha$ -hydroxy- $\beta$ -dihydroagarofuran**

C<sub>32</sub>H<sub>42</sub>O<sub>13</sub> (634.68). Amorphous white powder. **Source:** DIAO GAN MA *Celastrus angulatus*. **Ref:** 824.



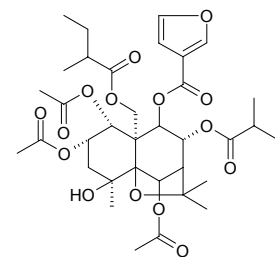
**21525 1 $\alpha$ ,2 $\alpha$ ,6 $\beta$ -Triacetoxo-8 $\alpha$ -isobutanoyloxy-9 $\beta$ -benzoyloxy-13-( $\alpha$ -methyl)butanoyloxy-4 $\beta$ -hydroxy- $\beta$ -dihydroagarofuran**

C<sub>37</sub>H<sub>50</sub>O<sub>14</sub> (718.8). White amorphous powder, mp 95~96°C, [ $\alpha$ ]<sub>D</sub><sup>24</sup> = -17.9° (c = 0.60, CHCl<sub>3</sub>). **Pharm:** Insecticidal (larval of *Mythimna separata*, KD<sub>50</sub> = 168.8 $\mu$ g/g). **Source:** DIAO GAN MA *Celastrus angulatus* (root cortex: yield = 0.00042%dw). **Ref:** 3044.



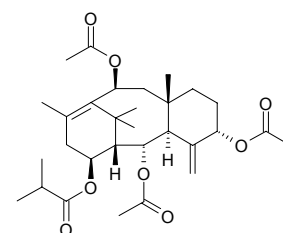
**21526 1 $\alpha$ ,2 $\alpha$ ,6 $\beta$ -Triacetoxo-8 $\beta$ -isobutanoyloxy-9 $\beta$ -( $\beta$ -furancarboxyloxy)-13-( $\alpha$ -methyl)butanoyloxy-4 $\beta$ -hydroxy- $\beta$ -dihydroagarofuran**

C<sub>35</sub>H<sub>48</sub>O<sub>15</sub> (708.76). White amorphous powder, mp 78~79°C, [ $\alpha$ ]<sub>D</sub><sup>24</sup> = -25.8° (c = 0.60, CHCl<sub>3</sub>). **Pharm:** Insecticidal (larval of *Mythimna separata*, KD<sub>50</sub> = 91.4 $\mu$ g/g). **Source:** DIAO GAN MA *Celastrus angulatus* (root cortex: yield = 0.00098%dw). **Ref:** 3044.



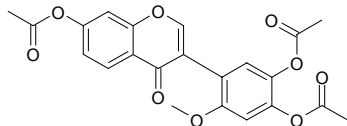
**21527 2 $\alpha$ ,5 $\alpha$ ,10 $\beta$ -Triacetoxo-14 $\beta$ -iso-butyryloxytaxa-4(20),11-diene**

C<sub>30</sub>H<sub>44</sub>O<sub>8</sub> (532.68). mp 183°C, [ $\alpha$ ]<sub>D</sub> = +33.96° (MeOH). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

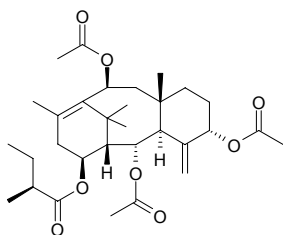


**21528 4',5',7-Triacetoxy-2'-methoxyisoflavone**

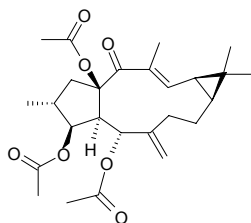
$C_{22}H_{18}O_9$  (426.38). Yellow-brown solid. Source: GUANG LIANG HUANG TAN *Dalbergia nitidula*. Ref: 1992.

**21529 2 $\alpha$ ,5 $\alpha$ ,10 $\beta$ -Triacetoxy-14 $\beta$ -((S)2-methyl)butyryloxytaxa-4(20),11-diene**

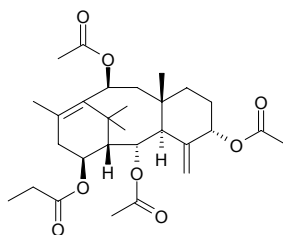
$C_{31}H_{46}O_8$  (546.71). mp 106°C,  $[\alpha]_D = +36.96^\circ$  (MeOH). Pharm: Cytotoxic (*in vitro*, Colon26-L5,  $EC_{50} = 84.9\mu\text{g/mL}$ ; HT1080,  $EC_{50} = 84.1\mu\text{g/mL}$ ; control 5-Fluorouracil, Colon26-L5,  $EC_{50} = 0.29\mu\text{g/mL}$ ; HT1080,  $EC_{50} = 0.07\mu\text{g/mL}$ )<sup>[4661]</sup>. Source: HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.0080%dw)<sup>[4661]</sup>, ZI SHAN *Taxus cuspidata*. Ref: 662, 4661, 5407.

**21530 (2R\*,3S\*,4R\*,5R\*,9S\*,11S\*,15R\*)-3,5,15-Triacetoxy-14-oxolathra-6(17),12E-diene**

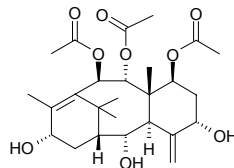
$C_{26}H_{36}O_7$  (460.57). Colorless oil. Source: HAI BO NA DA JI *Euphorbia hyberna*. Ref: 2153.

**21531 2 $\alpha$ ,5 $\alpha$ ,10 $\beta$ -Triacetoxy-14 $\beta$ -propionyloxytaxa-4(20),11-diene**

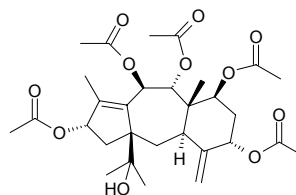
$C_{29}H_{42}O_8$  (518.65). mp 195°C,  $[\alpha]_D = +41.37^\circ$  (MeOH). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**21532 7 $\beta$ ,9 $\alpha$ ,10 $\beta$ -Triacetoxy-2 $\alpha$ ,5 $\alpha$ ,13 $\alpha$ -trihydroxy-4(20),11-taxadiene**

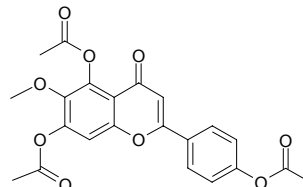
$C_{26}H_{38}O_9$  (494.59).  $[\alpha]_D = +129^\circ$  (CHCl<sub>3</sub>). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**21533 5,10,13-Triacetyl-10-debenzoyl brevifoliol**

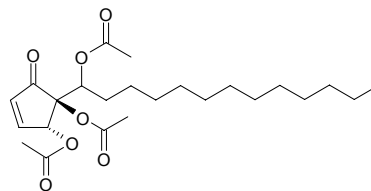
5,10,13-Acetyl-10-debenzoyl brevifoliol  $C_{30}H_{42}O_{11}$  (578.66). Oil,  $[\alpha]_D = -50^\circ$  ( $c = 1.0$ , CHCl<sub>3</sub>). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662, 1874.

**21534 Triacetylhispidulin**

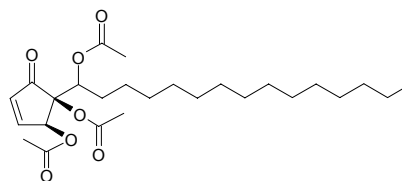
$C_{22}H_{18}O_9$  (426.38). mp 168.7°C. Source: CHANG GUAN JIA MO LI *Clerodendron indicum*. Ref: 6.

**21535 4,5,6-Tri-O-acetyl hygrophorone A<sup>12</sup>**

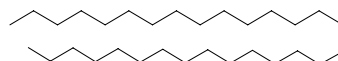
4,5-*trans*-4,5-Diacetoxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one  $C_{24}H_{38}O_7$  (438.57). Colorless oil. Source: *Hygrophorus persoonii*. Ref: 3800.

**21536 4,5,6-Tri-O-acetyl hygrophorone B<sup>14</sup>**

4,5-*cis*-4,5-Diacetoxy-(1-acetoxypentadecyl)-2-cyclopenten-1-one  $C_{26}H_{42}O_7$  (466.62). Colorless oil. Source: *Hygrophorus olivaceoalbus*. Ref: 3800.

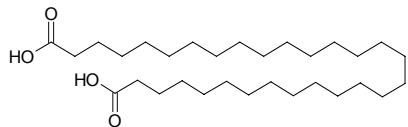
**21537 Triacontane**

[638-68-6]  $C_{30}H_{62}$  (422.83). Source: BU GU ZHI *Psoralea corylifolia*. Ref: 2.

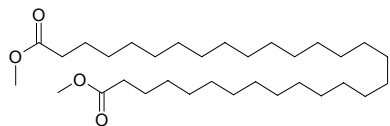


**21538 Triacontanedioic acid**

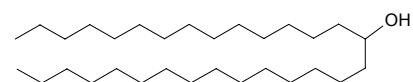
$C_{30}H_{58}O_4$  (482.79). mp 108°C; 123~125°C. Source: WEN JING *Equisetum arvense*. Ref: 6.

**21539 Triacontanedioic acid dimethyl ester**

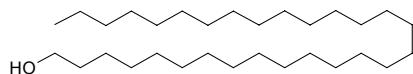
$C_{32}H_{62}O_4$  (510.85). Source: WEN JING *Equisetum arvense*. Ref: 6.

**21540 16-Triacontanol**

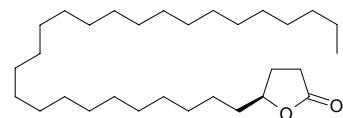
$C_{30}H_{62}O$  (438.83). Source: LONG YAN YE *Euphoria longan* [Syn. *Dimocarpus longan*]. Ref: 6.

**21541 n-Triacontanol**

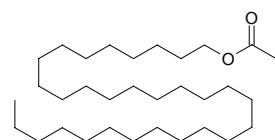
[593-50-0]  $C_{30}H_{62}O$  (438.83). mp 76~78°C; 83~84°C. Pharm: Plant growth regulator. Source: DU ZHONG *Eucommia ulmoides*, KU HAO *Conyza blinii*, MA HUANG *Ephedra sinica*, ROU CONG RONG *Cistanche deserticola*, SAN XIAO CAO *Trifolium repens*, XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb)<sup>[4769]</sup>, YE JIE *Brassica oleracea*. Ref: 2, 529, 614, 658, 660, 4769.

**21542 Triacontan-4-olide**

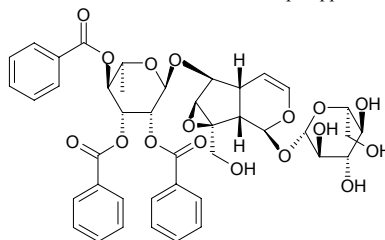
$C_{30}H_{58}O_2$  (450.80). Source: FU CHUI FE LAO JU *Flourensia cernua*. Ref: 3433.

**21543 Triacontanyl acetate**

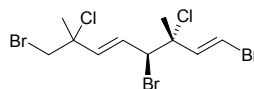
$C_{32}H_{64}O_2$  (480.87). Source: DUI YE RONG *Ficus hispida*. Ref: 660.

**21544 6-O-α-L-(2''-O-,3''-O-,4''-O-Tribenzoyl)rhamnopyranosylcatalpol**

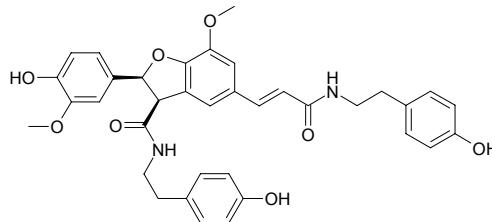
$C_{42}H_{44}O_{17}$  (820.81). White amorphous powder,  $[\alpha]_D^{22} = -56^\circ$  (c = 0.11, MeOH). Source: FEI LV BIN SHI ZI *Gmelina philippensis* (aerial parts). Ref: 3954.

**21545 1,4,8-Tribromo-3,7-dichloro-3,7-dimethyl-1E,5E-octadiene**

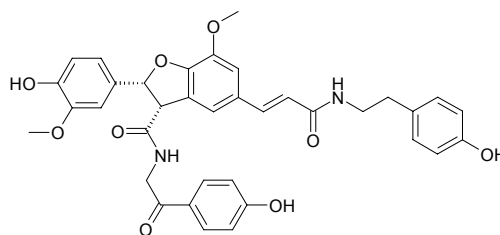
$C_{10}H_{13}Br_3Cl_2$  (443.83). Pharm: Cytotoxic (*in vitro*, WHCO1,  $IC_{50} = 18.1\mu\text{mol/L}$  control *cis*-Platin,  $IC_{50} = 13\mu\text{mol/L}$ ). Source: SHAN HU GEN HAI TOU HONG *Plocamium corallorrhiza*. Ref: 5277.

**21546 Tribulusamide A**

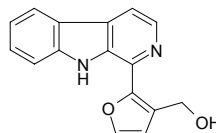
[218622-84-5]  $C_{36}H_{36}N_2O_8$  (624.70).  $[\alpha]_D^{25} = -10.9^\circ$ . Source: CI JI LI *Tribulus terrestris*. Ref: 715.

**21547 Tribulusamide B**

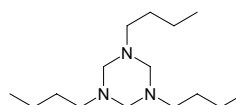
$C_{36}H_{34}N_2O_9$  (638.68). Source: CI JI LI *Tribulus terrestris*. Ref: 715.

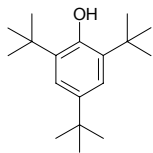
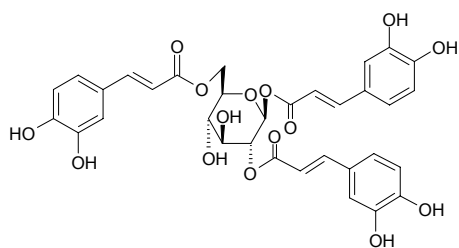
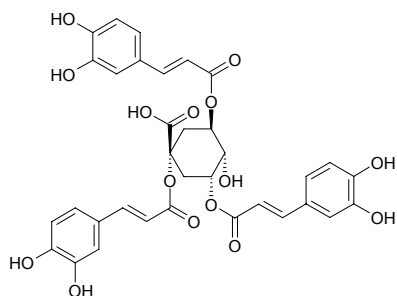
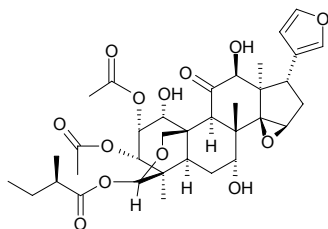
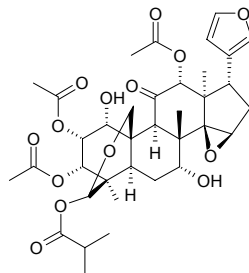
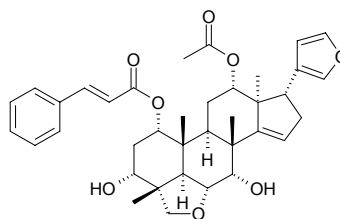
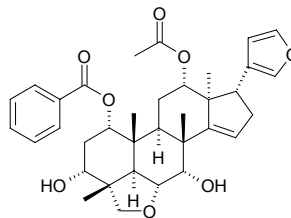
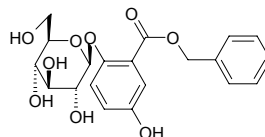
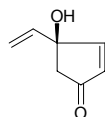
**21548 Tribusterin**

$C_{16}H_{12}N_2O_2$  (264.29). Yellowish powder ( $CHCl_3$ ), mp 184~185°C. Source: CI JI LI *Tribulus terrestris*. Ref: 1881.

**21549 1,3,5-Tributylhexahydro-1,3,5-triazine**

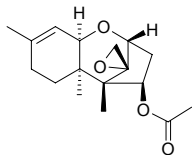
$C_{13}H_{33}N_3$  (255.45). Source: LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*]. Ref: 660.



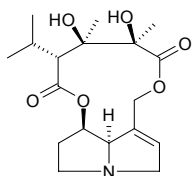
**21550 2,4,6-Tri-*t*-butyl phenol**C<sub>18</sub>H<sub>30</sub>O (262.44). Source: CHUAN XU DUAN *Dipsacus asperoides*.Ref: 660.**21551 1,2,6-Tri-*O*-(*E*)-caffeoyl- $\beta$ -*D*-glucopyranose**C<sub>33</sub>H<sub>30</sub>O<sub>15</sub> (666.60). Yellow amorphous powder,  $[\alpha]_D^{15} = -218.6^\circ$  ( $c = 0.4$ , MeOH). Source: GE XUN *Balanophora japonica* (underground part: yield = 0.0150%). Ref: 4101.**21552 1,3,5-Tri-*O*-caffeoyl quinic acid**C<sub>34</sub>H<sub>30</sub>O<sub>15</sub> (678.61). Source: CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*] (fruit). Ref: 660.**21553 Trichilin A**C<sub>35</sub>H<sub>46</sub>O<sub>13</sub> (674.75). Pharm: Insect antifeedant. Source: family Meliaceae spp. Ref: 658.**21554 Trichilin H**C<sub>36</sub>H<sub>46</sub>O<sub>14</sub> (702.76). Pharm: Cytotoxic (inhibits KB cell's growth, IC<sub>50</sub> = 0.11 μg/mL, control Adriamycin, IC<sub>50</sub> = 0.066 μg/mL)<sup>[2314]</sup>. Source: CHUAN LIAN PI *Melia toosendan*, KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 2314, 4528.**21555 Trichilin D**C<sub>37</sub>H<sub>44</sub>O<sub>8</sub> (616.76). Amorphous powder,  $[\alpha]_D = +96^\circ$  ( $c = 0.14$ ). Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2374.**21556 Trichilin E**C<sub>35</sub>H<sub>42</sub>O<sub>8</sub> (590.72). Amorphous powder,  $[\alpha]_D = +45^\circ$  ( $c = 0.03$ ). Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2374.**21557 Trichocarpin**C<sub>20</sub>H<sub>22</sub>O<sub>9</sub> (406.40). Pharm: Antifungal (*Dothichiza populea*). Source: MAO GUO YANG *Populus trichocarpa*. Ref: 658.**21558 Trichodenone A**[203243-21-4] C<sub>7</sub>H<sub>8</sub>O<sub>2</sub> (124.14). Source: *Myrothecium* sp. Ref: 4457.

**21559 Trichodermin**

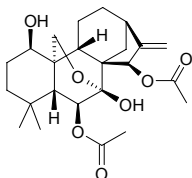
$C_{17}H_{24}O_4$  (292.38). **Pharm:** Antifungal (*Candida albicans*); cytotoxic. **Source:** LV SE MU MEI *Trichoderma virida*, *Myrothecium roridum*. **Ref:** 658.

**21560 Trichodesmine**

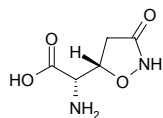
$C_{18}H_{27}NO_6$  (353.42). mp 160~161°C. **Source:** HUA JIN DAN *Crotalaria tetragona*, SHU MA *Crotalaria juncea*, YE BAI HE *Crotalaria sessiliflora*. **Ref:** 6, 660, 1521.

**21561 Trichokaurin**

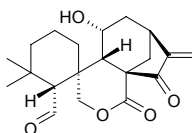
Enmenin  $C_{24}H_{34}O_7$  (434.53). mp 184~185°C,  $[\alpha]_D^{17} = -93^\circ$  ( $c = 1.0$ ,  $CHCl_3$ ). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 3808, 4067.

**21562 Tricholomic acid**

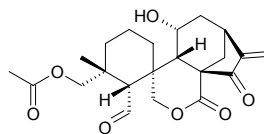
$C_5H_8N_2O_4$  (160.13). Colorless columnar crystals (water), mp 207°C (dec),  $[\alpha]_D = +80^\circ$  ( $c = 0.2$ , water). **Pharm:** Antineoplastic (mus, 5~50mg/kg); CNS stimulant. **Source:** *Tricholoma muscarium*. **Ref:** 661.

**21563 Trichorabdal A**

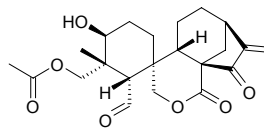
$C_{20}H_{26}O_5$  (346.43). mp 202~204°C,  $[\alpha]_D^{25} = -63.9^\circ$  ( $c = 0.001$ , EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). **Ref:** 3808, 4067.

**21564 Trichorabdal B**

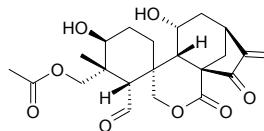
$C_{22}H_{28}O_7$  (404.46). Colorless acicular crystals, mp 160~162°C,  $[\alpha]_D^{25} = -120.3^\circ$  ( $c = 1.0$ , EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*, ZI MAO XIANG CHA CAI *Isodon enanderianus*. **Ref:** 653, 4067.

**21565 Trichorabdal C**

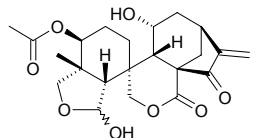
$C_{22}H_{28}O_7$  (404.46). mp 146.5~149°C,  $[\alpha]_D^{25} = +31.5^\circ$  ( $c = 1.0$ , EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

**21566 Trichorabdal D**

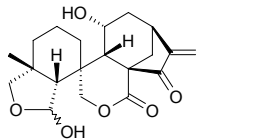
$C_{22}H_{28}O_8$  (420.46). mp 213~215°C,  $[\alpha]_D^{25} = -89.2^\circ$  ( $c = 0.01$ , EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

**21567 Trichorabdal E**

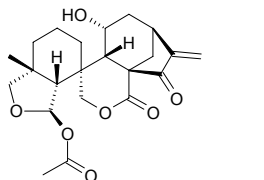
$C_{22}H_{28}O_8$  (420.46). mp 291°C,  $[\alpha]_D^{25} = -98.4^\circ$  ( $c = 0.02$ , EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

**21568 Trichorabdal F**

$C_{20}H_{26}O_6$  (362.43). mp 227~230°C. **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

**21569 Trichorabdal F acetate**

$C_{22}H_{28}O_7$  (404.46). mp 221~223°C,  $[\alpha]_D^{25} = -78.0^\circ$  ( $c = 0.05$ , EtOH). **Source:** MAO GUO XIANG CHA CAI *Isodon trichocarpa*. **Ref:** 4067.

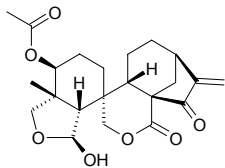




**21570 Trichorabdal G**

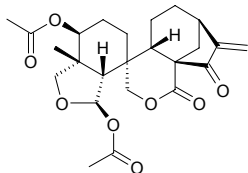
$C_{22}H_{28}O_7$  (404.46). Amorphous powder,  $[\alpha]_D^{27} = -48.9^\circ$  ( $c = 0.47$ , MeOH).

Source: MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

**21571 Trichorabdal G acetate**

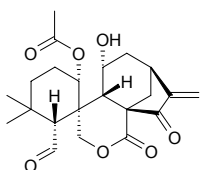
$C_{24}H_{30}O_8$  (446.50). mp 214~215°C,  $[\alpha]_D^{25} = -65.2^\circ$  ( $c = 0.05$ , EtOH). Source:

MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

**21572 Trichorabdal H**

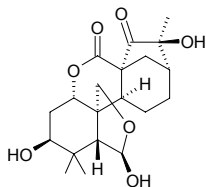
Trichodonin [92533-54-5]  $C_{22}H_{28}O_7$  (404.46). mp 217~219°C,  $[\alpha]_D^{25} = +19.4^\circ$  ( $c = 0.05$ , MeOH). Source: MAO GUO XIANG CHA CAI *Isodon trichocarpa*,

MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 575, 4067.

**21573 Trichorabdonin**

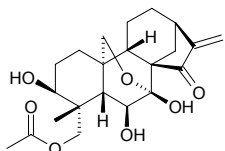
$C_{20}H_{28}O_7$  (380.44). mp > 300°C,  $[\alpha]_D^{24} = -75.0^\circ$  ( $c = 0.12$ , MeOH). Source:

MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

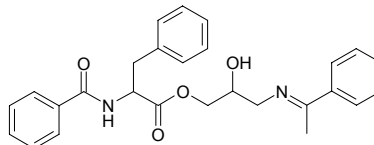
**21574 Trichoranin**

$C_{22}H_{30}O_7$  (406.48). mp 210~212°C,  $[\alpha]_D^{29} = -88.9^\circ$  ( $c = 0.90$ , MeOH). Source:

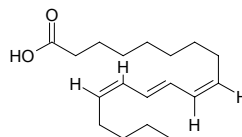
MAO GUO XIANG CHA CAI *Isodon trichocarpa*. Ref: 4067.

**21575 Trichosanatine**

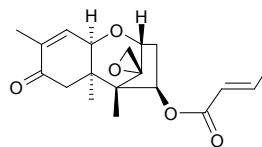
3-[(1-Phenyl)ethylidene]amino-2-hydroxy-propyl  $\alpha$ -(benzoyl amino)benzenepropanoate  $C_{27}H_{28}N_2O_4$  (444.54). Colorless acicular crystals, mp 175.5~176.0°C. Source: SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*]. Ref: 331.

**21576 Trichosanic acid**

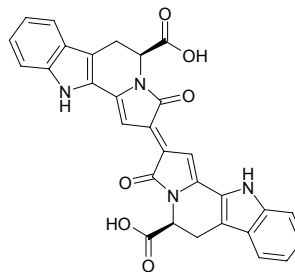
$C_{18}H_{30}O_2$  (278.44). mp 44°C. Pharm: Platelet aggregation inhibitor (induced by ADP, collagen and adrenaline). Source: GUA LOU *Trichosanthes kirilowii*, GUA LOU ZI *Trichosanthes kirilowii*, SUAN SHI LIU *Punica granatum*, WANG GUA ZI *Trichosanthes cucumeroides*. Ref: 2, 660, 5501.

**21577 Trichothecin**

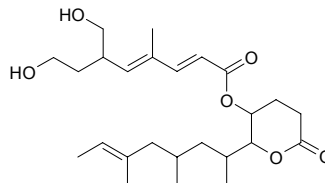
$C_{19}H_{24}O_5$  (332.40). Pharm: Antibacterial; LD<sub>50</sub> (mus, iv) = 300mg/kg. Source: *Trichothecium roseum*. Ref: 658.

**21578 Trichotomine**

$C_{30}H_{20}N_4O_6$  (532.52). Pharm: Bronchial smooth muscle relaxant; antihypertensive; sedative. Source: CHOU WU TONG *Clerodendron trichotomum*, DOU FU CHAI *Premna microphylla*. Ref: 658.

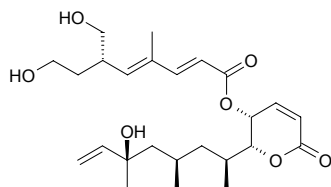
**21579 Trichurusin B**

$C_{25}H_{40}O_6$  (436.59). Colorless amorphous powder,  $[\alpha]_D^{24} = +18.4^\circ$  ( $c = 0.71$ , MeOH). Pharm: Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation, IC<sub>50</sub> = 2.0µg/mL, control Cyclosporin, IC<sub>50</sub> = 0.04µg/mL; LPS-induced proliferation, IC<sub>50</sub> = 0.8µg/mL, control Cyclosporin, IC<sub>50</sub> = 0.07µg/mL). Source: MAO SHU MEI *Trichurus terrophilus*. Ref: 4491.

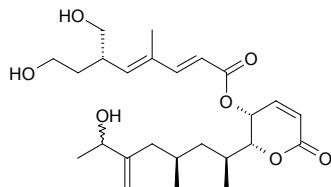


**21580 Trichurusin C**

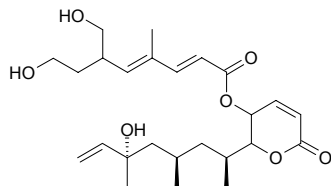
$C_{25}H_{38}O_7$  (450.58). Colorless amorphous powder,  $[\alpha]_D^{25} = -166.6^\circ$  ( $c = 1.08$ , MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation,  $IC_{50} = 1.2\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.04\mu\text{g/mL}$ ; LPS-induced proliferation,  $IC_{50} = 0.4\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.07\mu\text{g/mL}$ ). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21581 Trichurusin D**

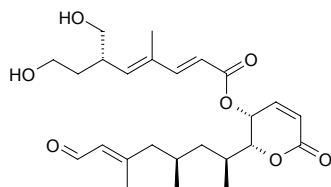
$C_{25}H_{38}O_7$  (450.58). White amorphous powder,  $[\alpha]_D^{25} = -78.1^\circ$  ( $c = 1.44$ , MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation,  $IC_{50} = 0.9\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.04\mu\text{g/mL}$ ; LPS-induced proliferation,  $IC_{50} = 0.4\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.07\mu\text{g/mL}$ ). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21582 Trichurusin E**

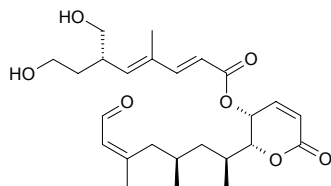
$C_{25}H_{38}O_7$  (450.38). White amorphous powder. **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21583 Trichurusin F**

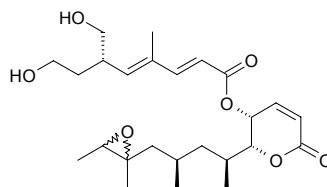
$C_{25}H_{36}O_7$  (448.56). White amorphous powder. **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21584 Trichurusin G**

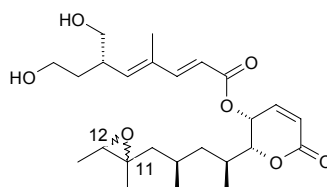
$C_{25}H_{36}O_7$  (448.56). White amorphous powder. **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21585 Trichurusin H**

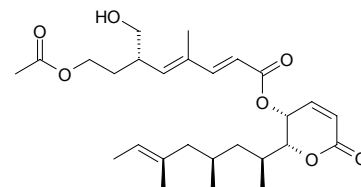
$C_{25}H_{38}O_7$  (450.58). White amorphous powder,  $[\alpha]_D^{25} = -124.9^\circ$  ( $c = 0.80$ , MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation,  $IC_{50} = 6.2\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.04\mu\text{g/mL}$ ; LPS-induced proliferation,  $IC_{50} = 6.0\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.07\mu\text{g/mL}$ ). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21586 Trichurusin I**

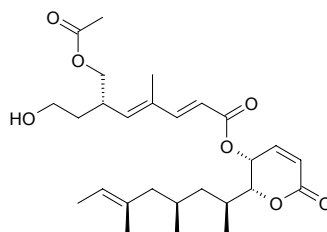
$C_{25}H_{38}O_7$  (450.58). White amorphous powder,  $[\alpha]_D^{25} = -167.3^\circ$  ( $c = 2.9$ , MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation,  $IC_{50} = 4.7\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.04\mu\text{g/mL}$ ; LPS-induced proliferation,  $IC_{50} = 4.5\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.07\mu\text{g/mL}$ ). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

**21587 Trichurusin J**

$C_{27}H_{40}O_7$  (476.62). Colorless amorphous powder,  $[\alpha]_D^{24} = -135.1^\circ$  ( $c = 0.17$ , MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, LPS-induced proliferation,  $IC_{50} = 6.4\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.07\mu\text{g/mL}$ ). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

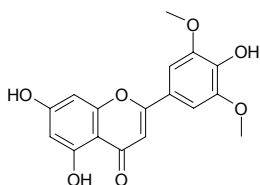
**21588 Trichurusin K**

$C_{27}H_{40}O_7$  (476.62). White amorphous powder,  $[\alpha]_D^{25} = -122.3^\circ$  ( $c = 0.23$ , MeOH). **Pharm:** Immunosuppressant (mus splenic lymphocyte, ConA-induced proliferation,  $IC_{50} = 6.9\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.04\mu\text{g/mL}$ ; LPS-induced proliferation,  $IC_{50} = 6.9\mu\text{g/mL}$ , control Cyclosporin,  $IC_{50} = 0.07\mu\text{g/mL}$ ). **Source:** MAO SHU MEI *Trichurus terrophilus*. **Ref:** 4491.

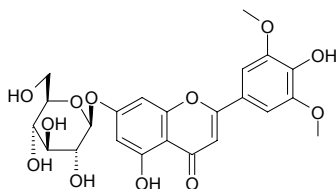


**21589 Tricin**

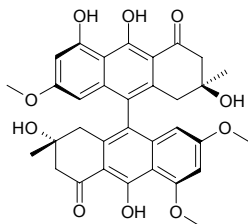
[520-32-1]  $C_{17}H_{14}O_7$  (330.30). Yellow powder. **Pharm:** Antineoplastic; smooth muscle relaxant; antitubercular (*Mycobacterium tuberculosis*, MIC = 58.5  $\mu\text{g}/\text{mL}$ ; cytotoxic, Vero cells,  $IC_{50}$  = 20.2  $\mu\text{g}/\text{mL}$ , SI ( $IC_{50}/\text{MIC}$ ) = 0.35, positive control Rifampin, MIC = 0.03  $\mu\text{g}/\text{mL}$ ,  $IC_{50}$  = 98.3  $\mu\text{g}/\text{mL}$ , SI = 3300)<sup>[4986]</sup>. **Source:** CHAO XIAN YIN YANG HUO *Epimedium koreanum*, CU MAO YIN YANG HUO *Epimedium acuminatum*, HU LU BA *Trigonella foenum-graecum*, LIAO GE WANG GEN *Wikstroemia indica*, LU GEN *Phragmites communis*, MANG JING *Miscanthus sinensis*, MU XU *Medicago sativa*, SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], YAN DI HE *Spartina cynosuroides*, ZHEN KUI *Phoenix canariensis*, SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root). **Ref:** 4, 458, 539, 615, 658, 660, 4986.

**21590 Tricin-7-O- $\beta$ -D-glucopyranoside**

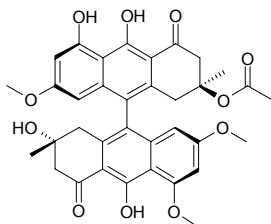
$C_{23}H_{24}O_{12}$  (492.44). Yellow needle crystals (methanol), mp 186–188°C, mp 246–248°C. **Source:** HU LU BA *Trigonella foenum-graecum*, MAO JIAN QIU LUO *Lychnis coronaria*. **Ref:** 615, 2189.

**21591 Tricolorin A**

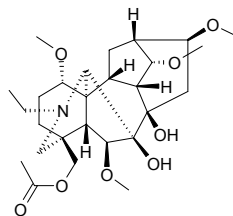
$C_{33}H_{32}O_{10}$  (588.62). **Source:** SAN SE BAI ZHUANG GU *Leucopaxillus tricolor*. **Ref:** 3799.

**21592 Tricolorin A acetate**

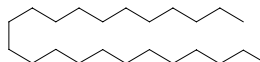
$C_{35}H_{34}O_{11}$  (630.65). **Source:** SAN SE BAI ZHUANG GU *Leucopaxillus tricolor*. **Ref:** 3799.

**21593 Tricornine**

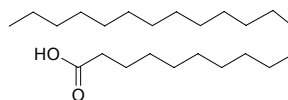
$C_{27}H_{43}NO_8$  (509.65). **Pharm:** Bidirectional action to neuromuscular transmission (in high dose, first enhances and then inhibits); enhances neuromuscular transmission (low dose). **Source:** SAN JU AI CUI QUE *Delphinium tricorne*. **Ref:** 658.

**21594 n-Tricosane**

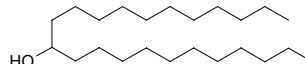
$C_{23}H_{48}$  (324.64). **Source:** GAN CAO *Glycyrrhiza uralensis*, GOU QI GEN PI *Lycium chinense*. **Ref:** 660.

**21595 n-Tricosanoic acid**

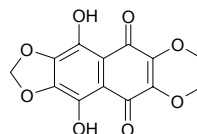
[2433-96-7]  $C_{23}H_{46}O_2$  (354.62). **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 2.

**21596 12-Tricosanol**

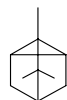
$C_{23}H_{48}O$  (340.64). **Source:** BEI AI *Artemisia vulgaris*. **Ref:** 660.

**21597 Tricozarin A**

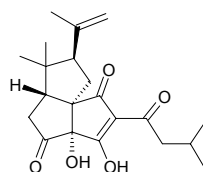
$C_{13}H_{10}O_8$  (294.22). **Pharm:** Antimicrobial (gram-positive bacteria, fungi and microzymes). **Source:** XIONG HUANG LAN *Tritonia crocosmaeflora*. **Ref:** 658.

**21598 Tricyclene**

Cyclene; Teresantanane [508-32-7]  $C_{10}H_{16}$  (136.24). **Source:** SHENG JIANG *Zingiber officinale*, HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

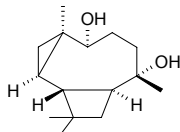
**21599 Tricyclodehydroisohumulone**

$C_{21}H_{28}O_5$  (360.45). **Pharm:** Bitter principle. **Source:** PI JIU HUA *Humulus lupulus*. **Ref:** 658.

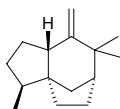


**21600 Tricyclohumuladiol**

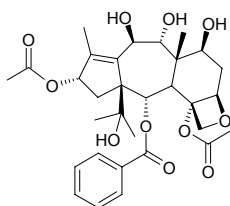
$C_{15}H_{26}O_2$  (238.37). **Pharm:** CYP3A4 inhibitor inactive ( $IC_{50} > 100\mu\text{mol/L}$ , control Ketoconazole  $IC_{50} = 0.24\mu\text{mol/L}$ ); CYP2D6 inhibitor inactive ( $IC_{50} > 100\mu\text{mol/L}$ , control Quinidine  $IC_{50} = 0.068\mu\text{mol/L}$ ). **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome). **Ref:** 4449.

**21601 Tricyclovetivene**

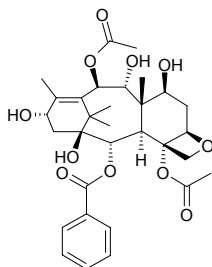
$C_{15}H_{24}$  (204.36). bp 120~122°C/10mmHg. **Source:** HUA JIN DAN *Crotalaria tetragona*. **Ref:** 6.

**21602 7,9,10-Trideacetyl-abeo-baccatin VI**

$C_{31}H_{40}O_{11}$  (588.66).  $[\alpha]_D = -25^\circ$  ( $\text{CHCl}_3$ ). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**21603 7,9,13-Trideacetyl-baccatin VI**

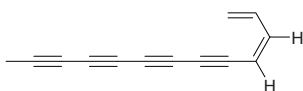
$C_{31}H_{40}O_{11}$  (588.66). Gum. **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). **Ref:** 3958.

**21604 1,3E-Tridecadiene-5,7,9,11-tetrayne**

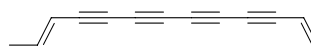
$C_{13}H_8$  (164.21). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 660.

**21605 1,3Z-Tridecadiene-5,7,9,11-tetrayne**

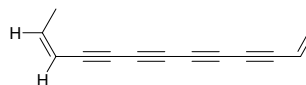
$C_{13}H_8$  (164.21). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 660.

**21606 1,11E-Tridecadiene-3,5,7,9-tetrayne**

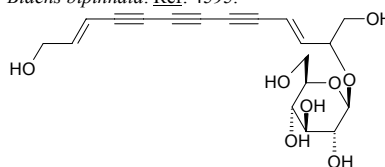
$C_{13}H_8$  (164.21). **Source:** NIU BANG GEN *Arctium lappa*. **Ref:** 6.

**21607 1,11Z-Tridecadiene-3,5,7,9-tetrayne**

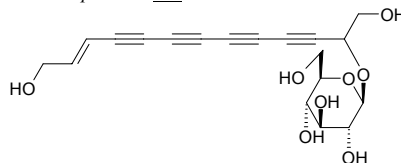
$C_{13}H_8$  (164.21). **Source:** HONG HUA *Carthamus tinctorius*, NIU BANG GEN *Arctium lappa*. **Ref:** 660.

**21608 Trideca-2β-D-glucopyranosyl-1,13-dihydroxy-3(E),11(E)-dien-5,7,9-triyne**

$C_{19}H_{22}O_8$  (378.38). Off-white powder (30% EtOH). **Source:** GUI ZHEN CAO *Bidens bipinnata*. **Ref:** 4595.

**21609 Trideca-2β-D-glucopyranosyl-1,13-dihydroxy-11(E)-en-3,5,7,9-tetrayne**

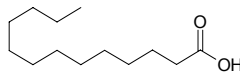
$C_{19}H_{20}O_8$  (376.37). Off-white powder (30% EtOH). **Source:** GUI ZHEN CAO *Bidens bipinnata*. **Ref:** 4595.

**21610 n-Tridecane**

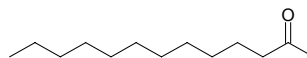
Tridecane [629-50-5]  $C_{13}H_{28}$  (184.37). **Source:** CHAI HU *Bupleurum chinense*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], LANG DU *Stellera chamaejasme*. **Ref:** 2, 660.

**21611 Tridecanoic acid**

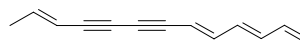
[638-53-9]  $C_{13}H_{26}O_2$  (214.35). **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. **Ref:** 2.

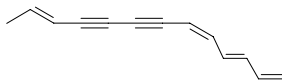
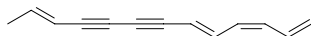
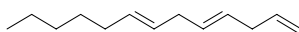
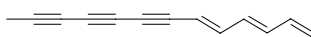
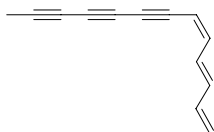
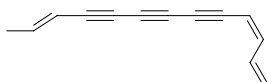
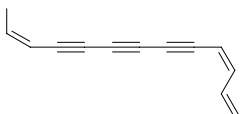
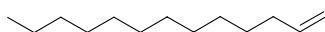
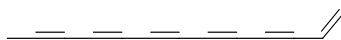
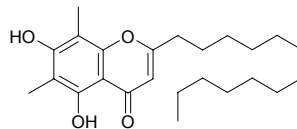
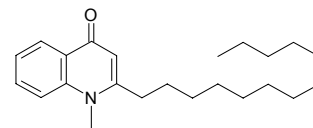
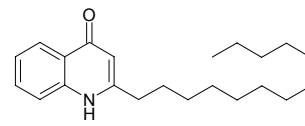
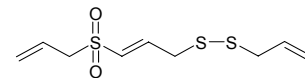
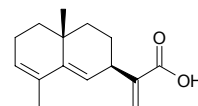
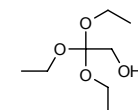
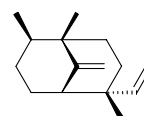
**21612 2-Tridecanone**

$C_{13}H_{26}O$  (198.35). **Source:** DENG XIN CAO *Juncus effusus*, MEI GUI HUA *Rosa rugosa*, TIAN SHAN HUA QIU *Sorbus tianschanica*, YAN CAO *Nicotiana tabacum*. **Ref:** 660.

**21613 (E,E,E)-1,3,5,11-Tridecatetraene-7,9-diyne**

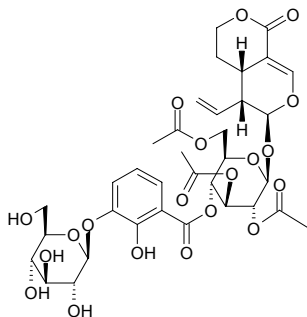
$C_{13}H_{12}$  (168.24). **Source:** HONG HUA *Carthamus tinctorius*. **Ref:** 660.



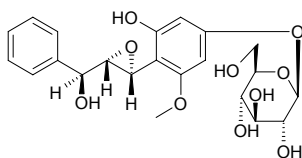
**21614 (E,Z,E)-1,3,5,11-Tridecatetraene-7,9-diyne**C<sub>13</sub>H<sub>12</sub> (168.24). Source: HONG HUA *Carthamus tinctorius*. Ref: 660.**21615 (Z,E,E)-1,3,5,11-Tridecatetraene-7,9-diyne**C<sub>13</sub>H<sub>12</sub> (168.24). Source: HONG HUA *Carthamus tinctorius*. Ref: 660.**21616 1,4,7-Tridecatriene**C<sub>13</sub>H<sub>22</sub> (178.32). Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.**21617 (E,E)-1,3,5-Tridecatriene-7,9,11-triyne**C<sub>13</sub>H<sub>10</sub> (166.22). Source: HONG HUA *Carthamus tinctorius*. Ref: 660.**21618 (E,Z)-1,3,5-Tridecatriene-7,9,11-triyne**C<sub>13</sub>H<sub>10</sub> (166.22). mp 88~93°C. Source: HONG HUA *Carthamus tinctorius*, YANG SHI CAO *Achillea millefolium*. Ref: 6, 660.**21619 (Z,E)-1,3,11-Tridecatriene-5,7,9-triyne**C<sub>13</sub>H<sub>10</sub> (166.22). Source: HONG HUA *Carthamus tinctorius*, NIU BANG GEN *Arctium lappa*, NIU BANG GEN *Arctium lappa*. Ref: 6.**21620 (Z,Z)-1,3,11-Tridecatriene-5,7,9-triyne**C<sub>13</sub>H<sub>10</sub> (166.22). Source: HONG HUA *Carthamus tinctorius*, NIU BANG GEN *Arctium lappa*. Ref: 660.**21621 Tridecene**[2437-56-1] C<sub>13</sub>H<sub>26</sub> (182.35). mp -22.2°C, bp 102°C/10mmHg. Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.**21622 1-Tridecene-3,5,7,9,11-pentyne**C<sub>13</sub>H<sub>6</sub> (162.19). Source: BI MA GEN *Ricinus communis*, HONG TOU CAO *Blumea lacera*. Ref: 6.**21623 2-n-Tridecyl-5,7-dihydroxy-6,8-dimethyl chromone**C<sub>24</sub>H<sub>36</sub>O<sub>4</sub> (388.55). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 660.**21624 2-Tridecyl-1-methyl-4(1H)-quinolone**C<sub>23</sub>H<sub>35</sub>NO (341.54). Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 877, 2085.**21625 2-Tridecyl-4(1H)-quinolone**C<sub>22</sub>H<sub>33</sub>NO (327.51). Amorphous powder, mp 132~134°C. Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 9.**21626 E-1,7,11-Triene-4,5,9-trithiadodeca-9,9-dioxide**C<sub>9</sub>H<sub>14</sub>O<sub>2</sub>S<sub>3</sub> (250.40). Yellowish oil liquid. Source: DA SUAN *Allium sativum*. Ref: 2118.**21627 3,5,11(13)-Trieneudesma-12-oic acid**C<sub>13</sub>H<sub>20</sub>O<sub>2</sub> (232.33). Colorless gum, [α]<sub>D</sub><sup>20</sup> = +7.5° (c = 0.4, CHCl<sub>3</sub>). Source: LIU LENG JU *Laggera alata* (aerial parts: yield = 0.00031%dw). Ref: 4709.**21628 2,2,2-Triethoxyl-ethanol**C<sub>8</sub>H<sub>18</sub>O<sub>4</sub> (178.23). Source: SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.**21629 (-)-Trifara-9,14-diene**C<sub>15</sub>H<sub>24</sub> (204.36). Source: YE TAI *Trocholejeunea sandvicensis*. Ref: 735.

**21630 Trifloroside**

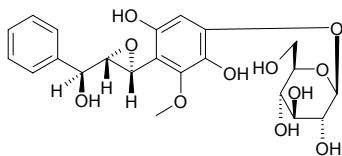
$C_{35}H_{42}O_{20}$  (782.71). Source: LONG DAN *Gentiana scabra*. Ref: 2.

**21631 Trifoalcanolioside I**

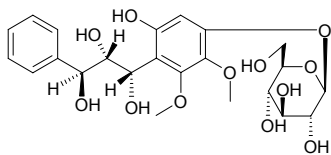
2-Methoxy-4,6-dihydroxy- $\alpha'$ -chalcanol- $\alpha,\beta$ -epoxide-4-*O*- $\beta$ -D-glucopyranoside  $C_{22}H_{26}O_{10}$  (450.45). Amorphous powder. Source: AI JI CHE ZHOU CAO *Trifolium alexandrinum* (seed). Ref: 3917.

**21632 Trifoalcanolioside II**

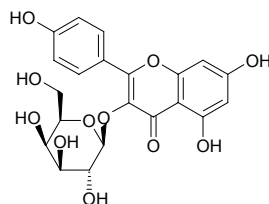
2-Methoxy-3,4,6-trihydroxy- $\alpha'$ -chalcanol- $\alpha,\beta$ -epoxide-4-*O*- $\beta$ -D-glucopyranoside  $C_{22}H_{26}O_{11}$  (466.45). Amorphous powder. Source: AI JI CHE ZHOU CAO *Trifolium alexandrinum* (seed). Ref: 3917.

**21633 Trifoalcanolioside III**

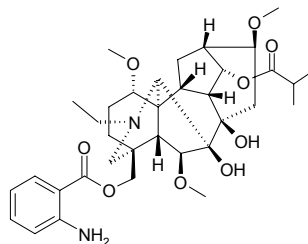
2,3-Dimethoxy-4,6,8-tetrahydroxy- $\alpha'$ -chalcanol-4-*O*- $\beta$ -D-glucopyranoside  $C_{23}H_{30}O_{12}$  (498.48). Amorphous powder. Source: AI JI CHE ZHOU CAO *Trifolium alexandrinum* (seed). Ref: 3917.

**21634 Trifolin**

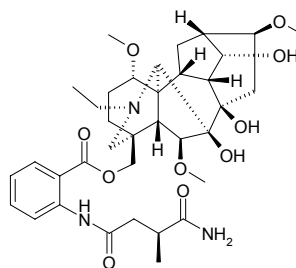
Kaempferol 3-*O*- $\beta$ -D-galactopyranoside [23627-87-4]  $C_{21}H_{20}O_{11}$  (448.39). mp 260°C. Pharm: Xanthinoxidase inhibitor (50 $\mu$ g/mL, InRt = 16.1%); antioxidant (DPPH scavenger, 250 $\mu$ mol/L, InRt = 4.5%; control Vitamin E, IC<sub>50</sub> = 8.3 $\mu$ mol/L)<sup>[4722]</sup>. Source: CI BO *Rubus hirsutus*, DA JIN QIAN CAO *Lysimachia christinae*, GAO CONG ZHEN ZHU MEI *Sorbaria arborea*, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], HONG CHE ZHOU CAO *Trifolium pratense*, HU ZHI ZI *Lespedeza bicolor*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0031%dw)<sup>[4723]</sup>, LV BEI GUI HUA *Excoecaria cochinchinensis* var. *viridis*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SAN XIAO CAO *Trifolium repens*, SHI WEI *Pyrrosia lingua*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00072%dw)<sup>[4722]</sup>, TAO HUA *Prunus persica*, XI SHU *Camptotheca acuminata*, XIAO XUE REN SHEN *Lespedeza tomentosa*, ZHEN ZHU MEI *Sorbaria sorbifolia*. Ref: 2, 6, 660, 1841, 4097, 4544, 4722, 4723.

**21635 Trifoliolasine A**

$C_{35}H_{50}N_2O_9$  (642.80). Colorless granule crystals, mp 125~127°C,  $[\alpha]_D^{20} = +44.2^\circ$  ( $c = 0.53$ ,  $CHCl_3$ ). Source: SAN XIAO YE CUI QUE HUA *Delphinium trifoliolatum* (whole herb). Ref: 4272.

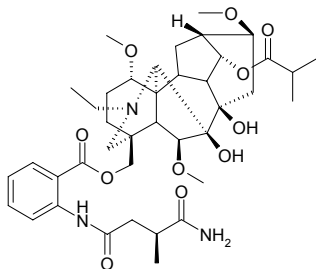
**21636 Trifoliolasine B**

$C_{36}H_{51}N_3O_{10}$  (685.82). White amorphous powder, mp 103~105°C,  $[\alpha]_D^{20} = +36.6^\circ$  ( $c = 0.48$ ,  $CHCl_3$ ). Source: SAN XIAO YE CUI QUE HUA *Delphinium trifoliolatum* (whole herb). Ref: 4272.

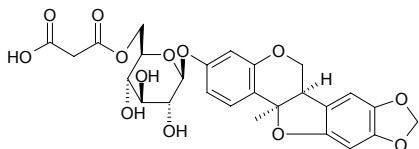


**21637 Trifolioliasine C**

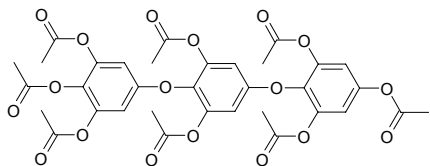
$C_{40}H_{58}N_3O_{11}$  (755.91). White amorphous powder, mp 117~118°C,  $[\alpha]_D^{20} = +24.0^\circ$  ( $c = 0.3$ ,  $CHCl_3$ ). **Source:** SAN XIAO YE CUI QUE HUA *Delphinium trifoliolatum* (whole herb). **Ref:** 4272.

**21638 Trifolirhizin-6''-O-malonate**

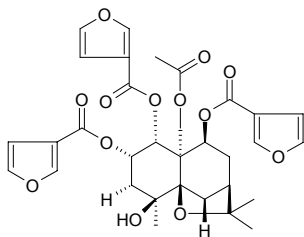
$C_{25}H_{24}O_{13}$  (532.46). **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. **Ref:** 660.

**21639 Trifuhalol A octaacetate**

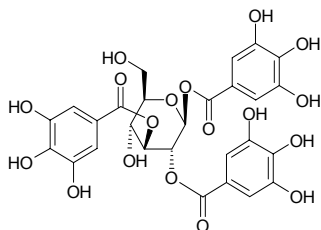
$C_{34}H_{30}O_{18}$  (726.61). **Source:** SHENG ZAO *Chorda filum*. **Ref:** 660.

**21640 1a,2a,9β-Tri-(β)-furoxyloxy-4β-hydroxy-15-acetoxy-β-dihydroagarofuran**

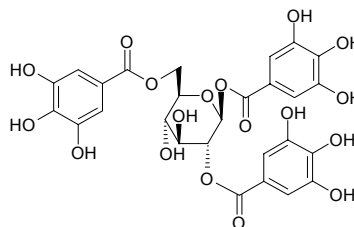
$C_{32}H_{34}O_{13}$  (626.62). Colorless gum,  $[\alpha]_D^{20} = +73^\circ$  ( $c = 1.04$ ,  $CHCl_3$ ). **Pharm:** Cytotoxic (*in vitro*, Bel7402 liver carcinoma,  $IC_{50} = 49.86\mu g/mL$ , control Etoposide,  $IC_{50} = 7.00\mu g/mL$ ). **Source:** *Euonymus nanoides* (seed). **Ref:** 4962.

**21641 1,2,3-Tri-O-galloyl-β-D-glucose**

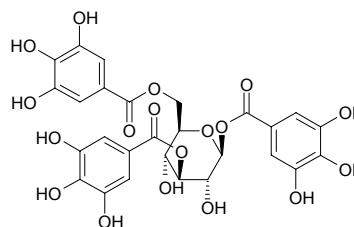
$C_{27}H_{24}O_{18}$  (636.48). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0060%fw), SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. **Ref:** 4695.

**21642 1,2,6-Tri-O-galloyl-β-D-glucose**

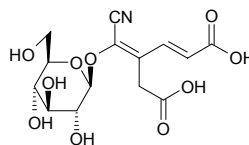
$C_{27}H_{24}O_{18}$  (636.48). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0058%fw), DA HUANG *Rheum officinale*, ZHANG YE DA HUANG *Rheum palmatum*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*], TANG GU TE DA HUANG *Rheum tanguticum*. **Ref:** 2, 660, 4695.

**21643 1,3,6-Trigalloyl-β-D-glucose**

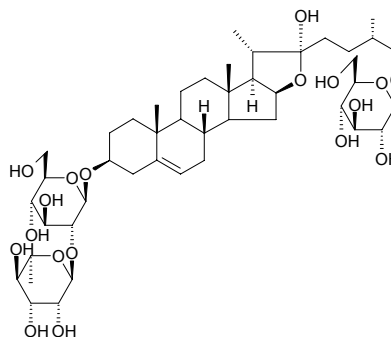
$C_{27}H_{24}O_{18}$  (636.48). **Source:** BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.0014%fw), HE ZI *Terminalia chebula*. **Ref:** 4695.

**21644 Triglochinin**

$C_{14}H_{17}NO_{10}$  (359.25). **Pharm:** Toxin (ox, sheep). **Source:** HAI JIU CAI *Triglochin maritimum*, YUAN YE FENG LING CAO *Campanula rotundifolia*. **Ref:** 6, 658, 1521.

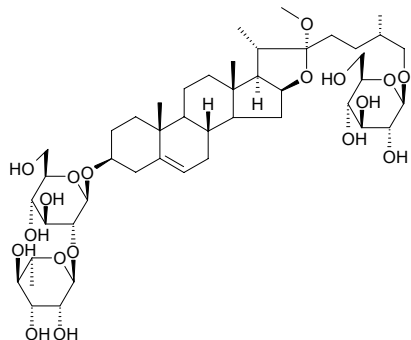
**21645 Trigofenoside A**

[99705-66-5]  $C_{45}H_{74}O_{18}$  (903.08). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

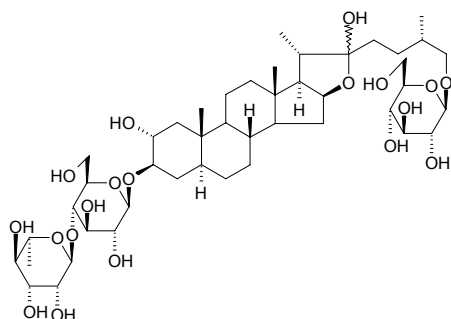


**21646 Trigofenoside A<sub>1</sub>**

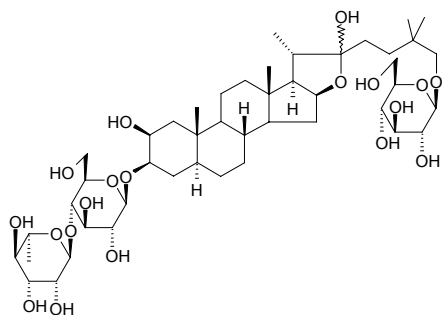
$C_{46}H_{76}O_{18}$  (917.11). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21647 Trigofenoside B**

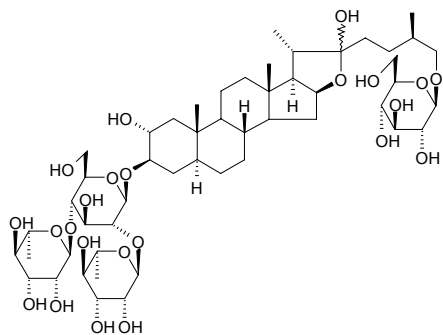
[99753-11-4]  $C_{45}H_{76}O_{19}$  (921.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21648 Trigofenoside B<sub>1</sub>**

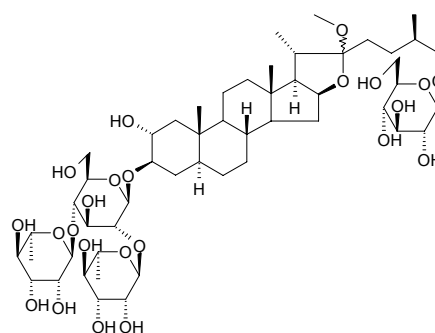
$C_{46}H_{78}O_{19}$  (935.12). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21649 Trigofenoside C**

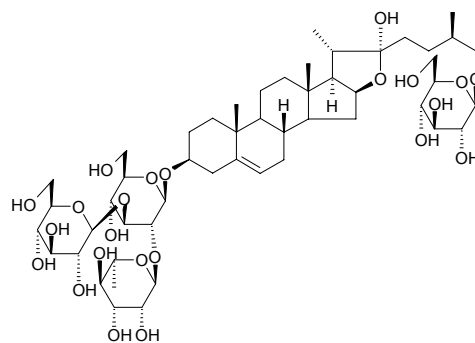
[99753-12-5]  $C_{51}H_{86}O_{23}$  (1067.24). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21650 Trigofenoside C<sub>1</sub>**

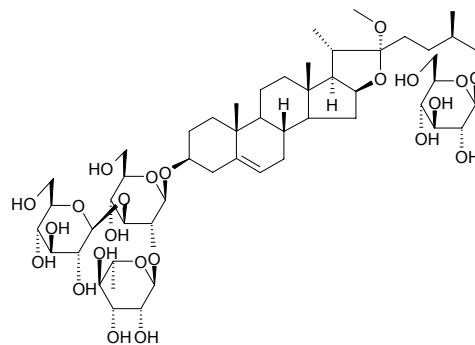
$C_{52}H_{88}O_{23}$  (1081.27). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21651 Trigofenoside D**

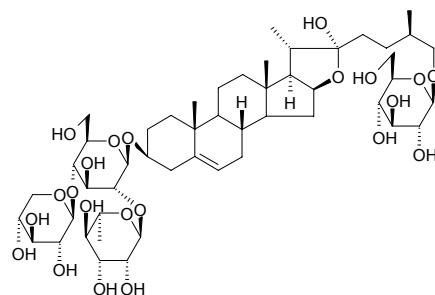
[99664-39-8]  $C_{51}H_{84}O_{23}$  (1065.22). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21652 Trigofenoside D<sub>1</sub>**

$C_{52}H_{86}O_{23}$  (1079.25). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21653 Trigofenoside E**

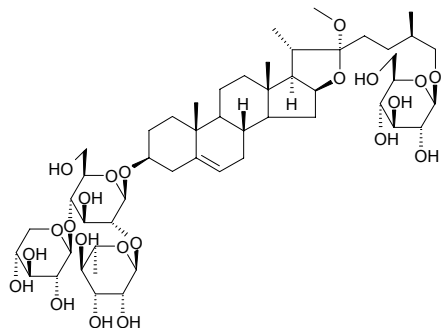
$C_{50}H_{82}O_{22}$  (1035.20). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.



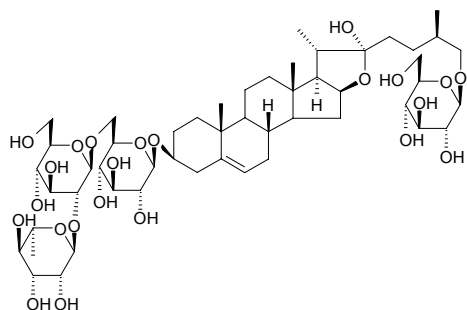


**21654 Trigofenoside E<sub>1</sub>**

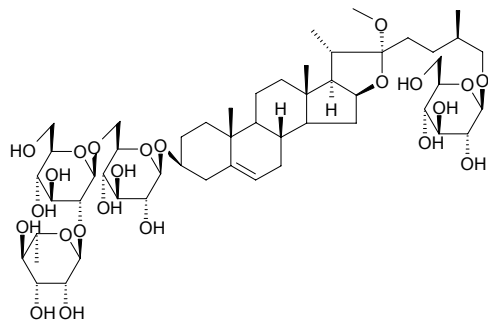
[191910-70-7] C<sub>51</sub>H<sub>84</sub>O<sub>22</sub> (1049.22). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21655 Trigofenoside F**

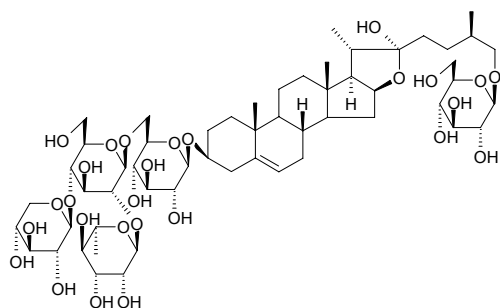
[94714-56-4] C<sub>51</sub>H<sub>84</sub>O<sub>23</sub> (1065.22). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21656 Trigofenoside F<sub>1</sub>**

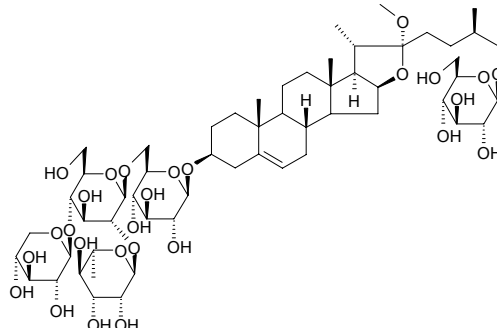
C<sub>52</sub>H<sub>86</sub>O<sub>23</sub> (1079.25). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21657 Trigofenoside G**

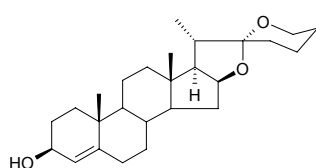
[94714-57-5] C<sub>56</sub>H<sub>92</sub>O<sub>27</sub> (1197.34). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21658 Trigofenoside G<sub>1</sub>**

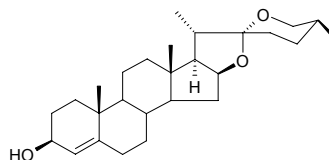
C<sub>57</sub>H<sub>94</sub>O<sub>27</sub> (1211.37). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21659 Trigonegenin A**

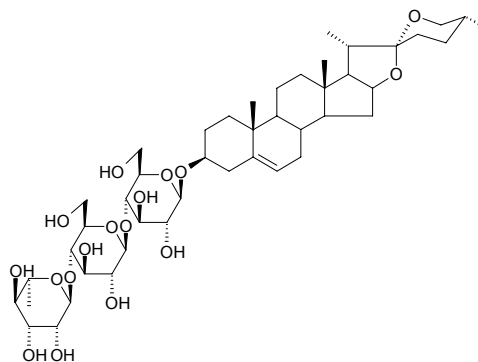
C<sub>27</sub>H<sub>42</sub>O<sub>3</sub> (414.63). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21660 Trigonegenin B**

C<sub>27</sub>H<sub>42</sub>O<sub>3</sub> (414.63). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

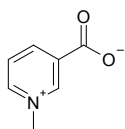
**21661 Trigonella-glucoside A**

Diosgenin-3-*O*- $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 4)- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 4)- $\beta$ -D-glucopyranoside C<sub>45</sub>H<sub>72</sub>O<sub>17</sub> (885.07). White granular crystals, mp 208~211°C (dec),  $[\alpha]_D^{25} = -67.42^\circ$  ( $c = 0.5636$ , MeOH). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2454.

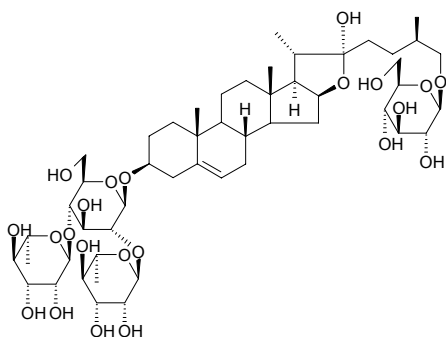


**21662 Trigonelline**

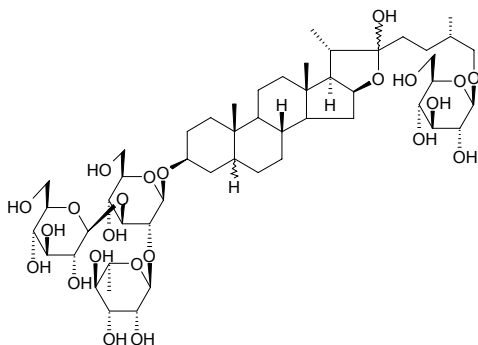
[535-83-1]  $C_7H_7NO_2$  (137.14). mp 218°C (dec). **Pharm:** Antineoplastic (mus, leukemia P<sub>388</sub>, 12.5mg/kg, biotic prolonged rate = 31%); inhibits growth of cell and tissue (animals and plants); causes glucopenia; LD<sub>50</sub> (rat, sc) = 5.0mg/kg. **Source:** BAI XIAN PI *Dictamnus dasycarpus*, BAN XIA *Pinellia ternata*, DONG GUA ZI *Benincasa hispida*, FAN QIE *Lycopersicon esculentum*, HU LU BA *Trigonella foenum-graecum* (dried ripe seed: content scope of 18 origins = 0.132%~0.343%, mean content = 0.261%<sup>[5508]</sup>), HUO MA REN *Cannabis sativa*, MA HUA *Cannabis sativa*, MU XU *Medicago sativa*, NAN GUA *Cucurbita moschata*, QIE YE *Solanum melongena*, QIE ZI *Solanum melongena*, SANG YE *Morus alba*, SHI JUN ZI *Quisqualis indica*, SHI JUN ZI YE *Quisqualis indica*, WAN DOU *Pisum sativum*, XIANG SI ZI *Abrus precatorius*, YANG SHI CAO *Achillea millefolium*, ZI MO LI YE *Mirabilis jalapa*, ZI YUN YING *Astragalus sinicus*, *Strophanthus* sp. **Ref:** 6, 658, 5501, 5508.

**21663 Trigonelloside C**

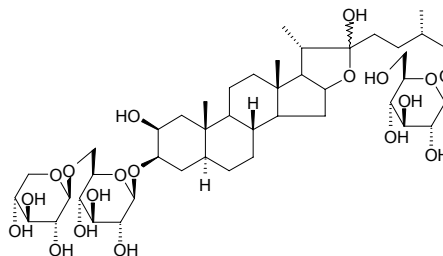
[60478-69-5]  $C_{51}H_{84}O_{22}$  (1049.22). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**21664 Trigoneoside 1**

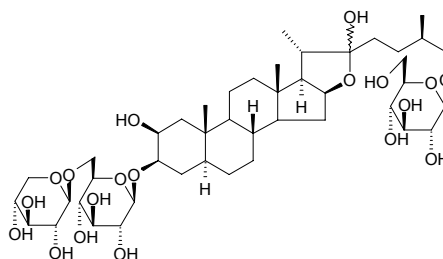
$C_{51}H_{86}O_{23}$  (1067.24). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**21665 Trigoneoside Ia**

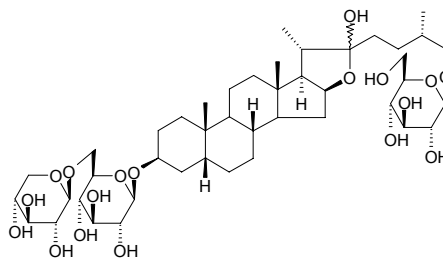
$C_{44}H_{74}O_{19}$  (907.07). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**21666 Trigoneoside Ib**

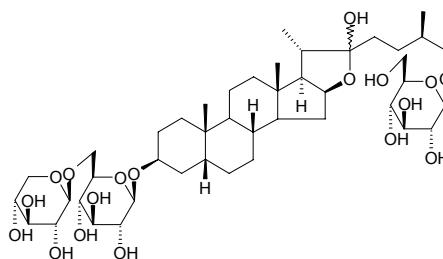
$C_{44}H_{74}O_{19}$  (907.07). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

**21667 Trigoneoside IIa**

$C_{44}H_{74}O_{18}$  (891.07). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

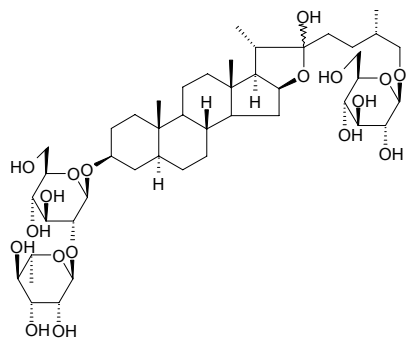
**21668 Trigoneoside IIb**

$C_{44}H_{74}O_{18}$  (891.07). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 2458.

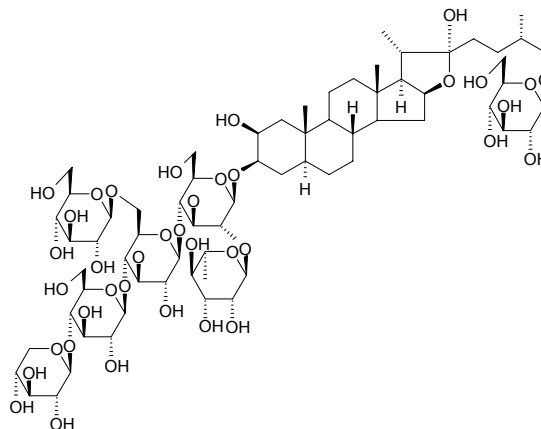


**21669 Trigoneoside IIIa**

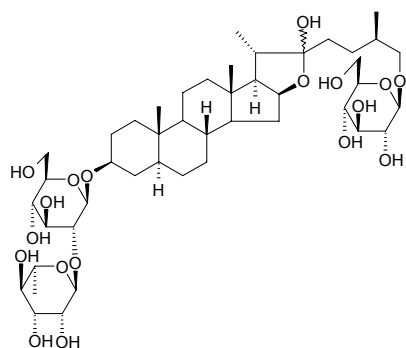
$C_{45}H_{76}O_{18}$  (905.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21672 Trigoneoside Vb**

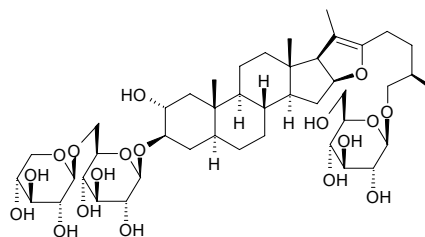
$C_{68}H_{114}O_{38}$  (1539.64). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21670 Trigoneoside IIIb**

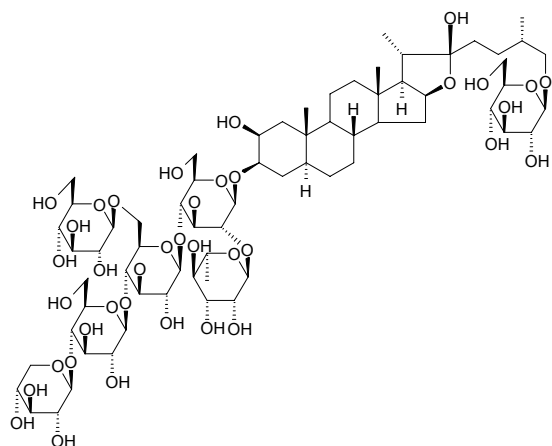
$C_{45}H_{76}O_{18}$  (905.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21673 Trigoneoside VIII**

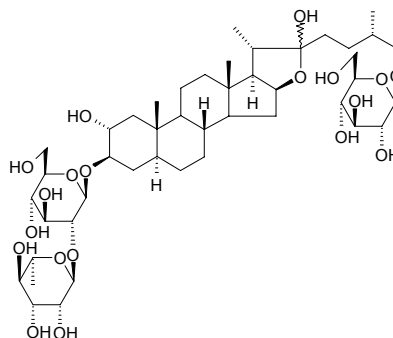
26-O-β-D-Glucopyranosyl-25(R)-5α-furostan-20(22)-en-2α,3β,26-triol-3-O-β-D-xylopyranosyl(1→6)-β-D-glucopyranoside  $C_{44}H_{72}O_{18}$  (889.05). Colorless acicular crystals, mp 173~175°C. Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2132.

**21671 Trigoneoside Va**

$C_{68}H_{114}O_{38}$  (1539.64). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

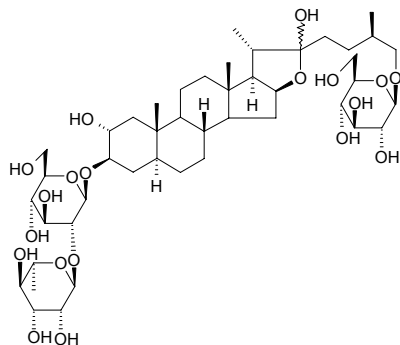
**21674 Trigoneoside Xa**

[290347-38-5]  $C_{45}H_{76}O_{19}$  (921.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

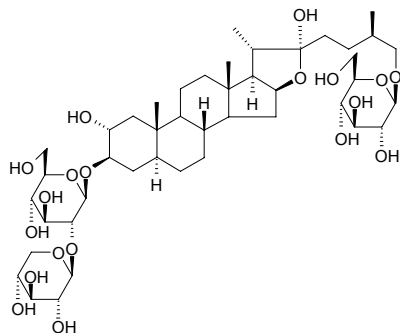


**21675 Trioneoside Xb**

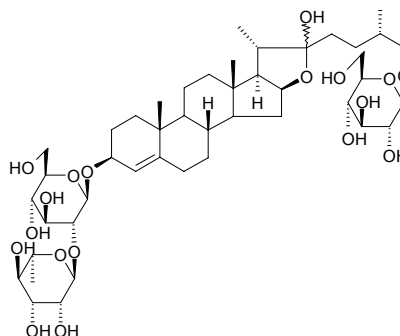
[290347-51-2] C<sub>45</sub>H<sub>76</sub>O<sub>19</sub> (921.10). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21676 Trioneoside XIb**

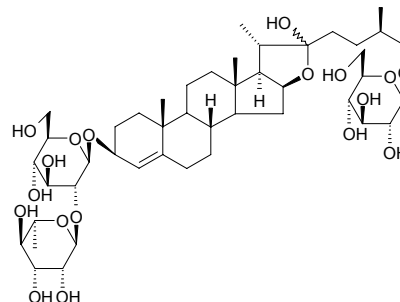
[290347-58-9] C<sub>44</sub>H<sub>74</sub>O<sub>19</sub> (907.07). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21677 Trioneoside XIIa**

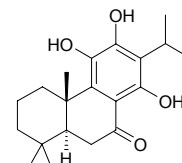
[290347-97-6] C<sub>45</sub>H<sub>74</sub>O<sub>18</sub> (903.08). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21678 Trioneoside XIIb**

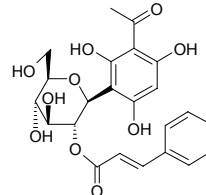
[290348-00-4] C<sub>45</sub>H<sub>74</sub>O<sub>18</sub> (903.08). Source: HU LU BA *Trigonella foenum-graecum*. Ref: 2458.

**21679 11,12,14-Trihydroxyabieta-8,11,13-trien-7-one**

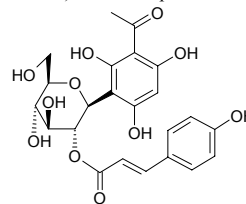
C<sub>20</sub>H<sub>28</sub>O<sub>4</sub> (332.44). Yellowish solid,  $[\alpha]_D^{23} = +92.0^\circ$  ( $c = 0.4$ , CHCl<sub>3</sub>). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4443.

**21680 2,4,6-Trihydroxyacetophenone 3-C-β-(2'-O-E-cinnamoyl)-glucopyranoside**

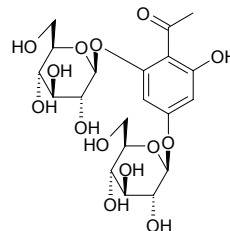
C<sub>23</sub>H<sub>24</sub>O<sub>10</sub> (460.44). White amorphous powder,  $[\alpha]_D = -79^\circ$  ( $c = 0.08$ , MeOH). Source: *Upuna borneensis* (stem). Ref: 3834.

**21681 2,4,6-Trihydroxyacetophenone 3-C-β-(2'-O-E-coumaroyl)-glucopyranoside**

C<sub>23</sub>H<sub>24</sub>O<sub>11</sub> (476.44). White amorphous powder,  $[\alpha]_D = -104^\circ$  ( $c = 0.10$ , MeOH). Source: *Upuna borneensis* (stem). Ref: 3834.

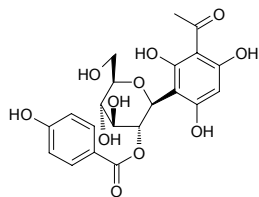
**21682 2,4,6-Trihydroxyacetophenone-2,4-di-O-β-D-glucopyranoside**

C<sub>20</sub>H<sub>28</sub>O<sub>14</sub> (492.44). White amorphous powder,  $[\alpha]_D = -75.4^\circ$  ( $c = 0.77$ , MeOH). Source: TU FU LING *Smilax glabra* (rhizome). Ref: 4589.

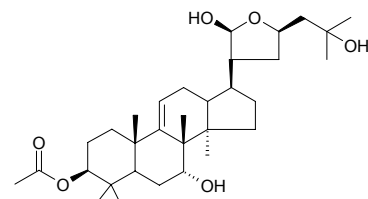


**21683 2,4,6-Trihydroxyacetophenone 3-C- $\beta$ -(2'-O-*p*-hydroxybenzoyl)-glucopyranoside**

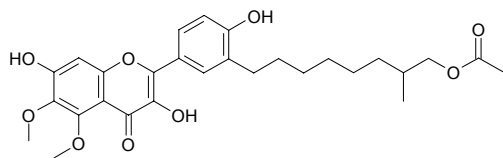
C<sub>21</sub>H<sub>22</sub>O<sub>11</sub> (450.40). White amorphous powder,  $[\alpha]_D = -70^\circ$  ( $c = 0.24$ , MeOH).  
 Source: *Upuna borneensis* (stem). Ref: 3834.

**21684 7 $\alpha$ ,21S,25-Trihydroxy-3 $\beta$ -acetoxy-21S,23R-epoxy-9(11)-en-dammarane**

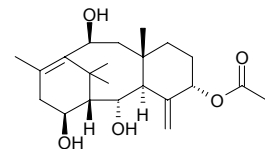
C<sub>32</sub>H<sub>52</sub>O<sub>6</sub> (532.77). Colorless acicular crystals (CHCl<sub>3</sub>), mp 201°C,  $[\alpha]_D^{21.5} = -32^\circ$  ( $c = 1.0$ , CHCl<sub>3</sub>). Source: XIANG GANG JIAN MU *Dysoxylum hongkongense*. Ref: 422.

**21685 3,7,4'-Trihydroxy-3'-(8''-acetoxy-7''-methyloctyl)-5,6-dimethoxyflavone**

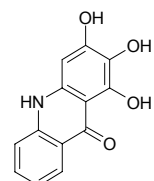
C<sub>28</sub>H<sub>34</sub>O<sub>9</sub> (514.58). Yellowish gummy solid,  $[\alpha]_D^{24} = +11.8^\circ$  ( $c = 0.06$ , MeOH).  
 Pharm:  $\alpha$ -Glucosidase inhibitor (IC<sub>50</sub> = (757.8 $\pm$ 65.5) $\mu$ mol/L, control Deoxynojirimycin, IC<sub>50</sub> = (425.6 $\pm$ 8.1) $\mu$ mol/L). Source: JIA LIAN QIAO YE *Duranta repens*. Ref: 4050.

**21686 2 $\alpha$ ,10 $\beta$ ,14 $\beta$ -Trihydroxy-5 $\alpha$ -acetoxytaxa-4(20),11-diene**

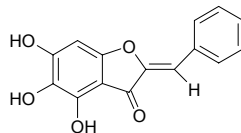
C<sub>22</sub>H<sub>34</sub>O<sub>5</sub> (378.51). mp 67–69°C,  $[\alpha]_D = +39.2^\circ$  (MeOH). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**21687 1,2,3-Trihydroxyacridone**

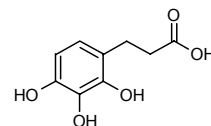
C<sub>13</sub>H<sub>9</sub>NO<sub>4</sub> (243.22). Source: DONG FENG JU GEN *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (root cortex). Ref: 3075.

**21688 4,5,6-Trihydroxy-aurone**

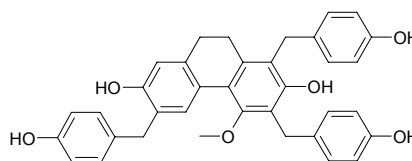
C<sub>15</sub>H<sub>10</sub>O<sub>5</sub> (270.24). Yellow acicular crystals (CHCl<sub>3</sub>–MeOH), mp 190–192°C.  
 Source: CAO CONG RONG *Boschniakia rossica*. Ref: 686.

**21689 2,3,4-Trihydroxy-benzenepropanoic acid**

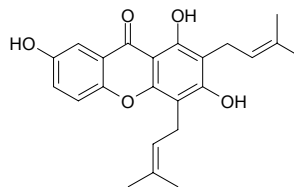
C<sub>9</sub>H<sub>10</sub>O<sub>5</sub> (198.18). Source: HUANG LIAN *Coptis chinensis*. Ref: 2.

**21690 1,3,6-Tri(4-hydroxybenzyl)-4-methoxydihydrophenanthrene-2,7-diol**

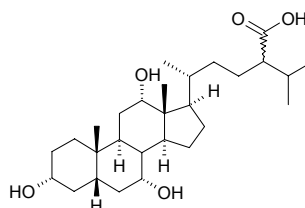
C<sub>36</sub>H<sub>32</sub>O<sub>6</sub> (560.65). Pale yellow amorphous powder. Source: LAN YU BAI JI *Bletilla formosana* (whole herb). Ref: 4500.

**21691 1,3,7-Trihydroxy-2,4-bis(3-methyl-2-butenyl)-xanthone**

C<sub>23</sub>H<sub>24</sub>O<sub>5</sub> (388.40). Pharm: Antioxidant (DPPH scavenger, 50 $\mu$ mol/L, ScRt = 20.7%; control BHT, 50 $\mu$ mol/L, ScRt = 51.7%, IC<sub>50</sub> = 28.9 $\mu$ mol/L). Source: HUANG NIU MU *Cratogeomys cochinchinense* (root). Ref: 4423.

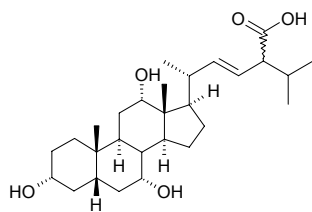
**21692 Trihydroxybufosterocholanic acid**

C<sub>28</sub>H<sub>48</sub>O<sub>5</sub> (464.69). mp 200°C. Source: CHAN CHU DAN *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.

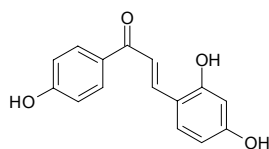


**21693 Trihydroxybufosterolenic acid**

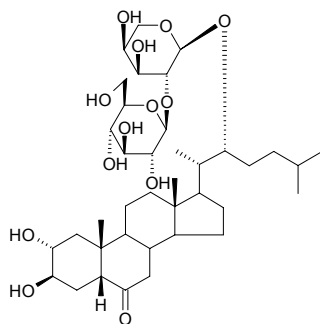
(3 $\alpha$ ,5 $\beta$ ,7 $\alpha$ ,12 $\alpha$ ,24 $\zeta$ )-3,7,12-Trihydroxy-ergost-22-en-28-oic acid [53939-26-7]  
 C<sub>28</sub>H<sub>46</sub>O<sub>5</sub> (462.68). mp 160°C. Source: CHAN CHU DAN *Bufo bufo*  
*gargarizans*; *Bufo melanostictus*. Ref: 6.

**21694 2,4,4'-Trihydroxychalcone**

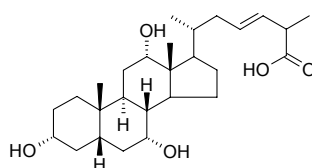
Isoliquiritigenin C<sub>15</sub>H<sub>12</sub>O<sub>4</sub> (256.26). Source: GAN CAO *Glycyrrhiza uralensis*.  
Ref: 6.

**21695 2 $\alpha$ ,3 $\beta$ -(22R)-Trihydroxycholestan-6-one-22-O- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)- $\alpha$ -L-arabinopyranoside**

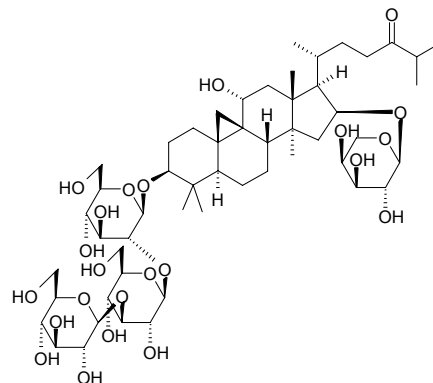
[235741-24-9] C<sub>38</sub>H<sub>64</sub>O<sub>13</sub> (728.93). Needles (MeOH), mp 219°C, [ $\alpha$ ]<sub>D</sub> = -30.5° (c = 0.1, MeOH). Source: WU SU LI WA WEI *Lepisorus ussuriensis*.  
Ref: 2294.

**21696 2<sup>23</sup>-3 $\alpha$ ,7 $\alpha$ ,12 $\alpha$ -Trihydroxy coprostenic acid**

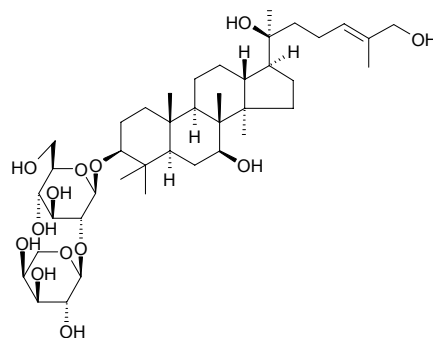
C<sub>27</sub>H<sub>44</sub>O<sub>5</sub> (448.65). mp 176–179°C. Source: CHAN CHU DAN *Bufo bufo*  
*gargarizans*; *Bufo melanostictus*. Ref: 6.

**21697 3 $\beta$ ,11 $\alpha$ ,16 $\beta$ -Trihydroxycycloartane-24-one-3-O-[ $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 3)- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranosyl]-16-O- $\alpha$ -L-arabinopyranoside**

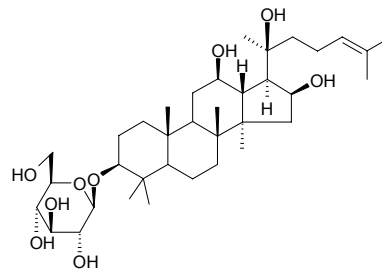
C<sub>53</sub>H<sub>88</sub>O<sub>23</sub> (1093.28). White amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +5.59° (c = 1.70, MeOH). Source: XIAN MAO *Curculigo orchoides*. Ref: 2485.

**21698 7 $\beta$ ,20,26-Trihydroxy-(20S)-dammar-24E-en-3-O- $\alpha$ -L-arabinopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranoside**

C<sub>41</sub>H<sub>70</sub>O<sub>13</sub> (771.01). White crystalline powder (MeOH), mp 164–166°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +3.85° (c = 0.52, MeOH). Pharm: Antiviral (Vero cells, HSV-1, TC<sub>50</sub> = 1414.2 $\mu$ g/mL, Acyclovir, TC<sub>50</sub> > 1000 $\mu$ g/mL; IC<sub>50</sub> = 500 $\mu$ g/mL, Acyclovir, IC<sub>50</sub> = 2.60 $\mu$ g/mL). Source: JIA BEI MU *Bolbostemma paniculatum* (bulb).  
Ref: 4977.

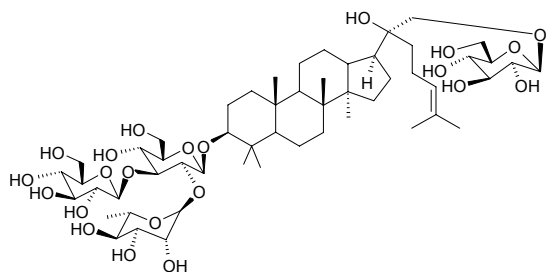
**21699 (20S)-12 $\beta$ ,16 $\beta$ -Trihydroxydammar-24-ene-3 $\beta$ -O- $\beta$ -glucopyranoside**

C<sub>36</sub>H<sub>62</sub>O<sub>9</sub> (638.89). Colorless crystals, mp >250°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +40° (c = 0.5, CH<sub>2</sub>Cl<sub>2</sub>).  
Source: HUN XIAO MO YAO *Commiphora confusa* (resin). Ref: 4335.



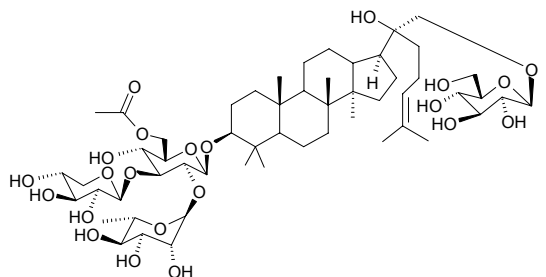
**21700** 3 $\beta$ ,20S,21-Trihydroxydammar-24-ene 3-O-[[ $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 2)] $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 3)]- $\beta$ -D-glucopyranosyl]-21-O- $\beta$ -D-glucopyranoside

C<sub>54</sub>H<sub>90</sub>O<sub>22</sub> (1093.32). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -1.9° (c = 1.29, MeOH).  
**Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0055%dw). **Ref:** 4751.



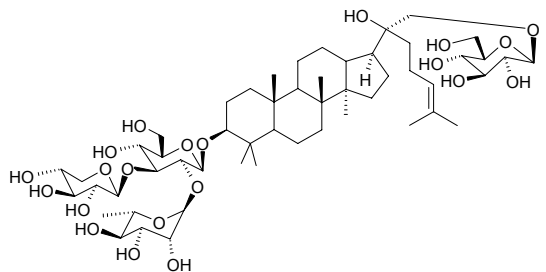
**21701** 3 $\beta$ ,20S,21-Trihydroxydammar-24-ene 3-O-[[ $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 2)] $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 3)]- $\beta$ -D-[6-O-acetylglucopyranosyl]-21-O- $\beta$ -D-glucopyranoside

C<sub>55</sub>H<sub>92</sub>O<sub>22</sub> (1105.33). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -2.6° (c = 0.97, MeOH).  
**Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.005%dw). **Ref:** 4751.



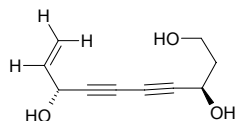
**21702** 3 $\beta$ ,20S,21-Trihydroxydammar-24-ene 3-O-[[ $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 2)] $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 3)]- $\beta$ -D-glucopyranosyl]-21-O- $\beta$ -D-glucopyranoside

C<sub>53</sub>H<sub>90</sub>O<sub>21</sub> (1063.3). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -6.6° (c = 0.69, MeOH).  
**Source:** JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.015%dw). **Ref:** 4751.



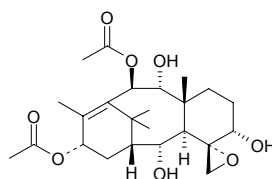
**21703** 1,3R,8R-Trihydroxydec-9-en-4,6-yne

C<sub>10</sub>H<sub>12</sub>O<sub>3</sub> (180.21). **Pharm:** 12-Lipoxygenase inhibitor (10 $\mu$ g/mL, InRt = 32.17%; 30 $\mu$ g/mL, InRt = 18.15%; control Baicalein, 10 $\mu$ g/mL, InRt = 56.23%). **Source:** DAN ZI HAO *Artemisia monosperma*. **Ref:** 5249.



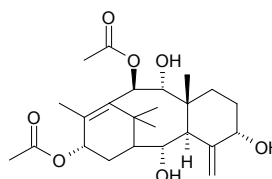
**21704** 2 $\alpha$ ,5 $\alpha$ ,9 $\alpha$ -Trihydroxy-10 $\beta$ ,13 $\alpha$ -diacetoxy-4 $\beta$ ,20-epoxytaxa-11-ene

C<sub>24</sub>H<sub>36</sub>O<sub>8</sub> (452.55). mp 216–218°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.



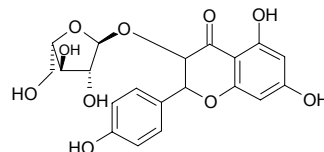
**21705** 2 $\alpha$ ,5 $\alpha$ ,9 $\alpha$ -Trihydroxy-10 $\beta$ ,13 $\alpha$ -diacetoxytaxa-4(20),11-diene

Trihydroxydiacetoxytaxadiene C<sub>24</sub>H<sub>36</sub>O<sub>7</sub> (436.55). mp 186–188°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.



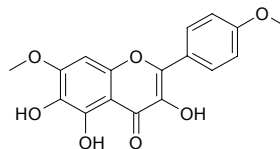
**21706** 5,7,4'-Trihydroxy dihydroflavonol-3-O- $\alpha$ -L-arabinofuranoside

C<sub>20</sub>H<sub>20</sub>O<sub>10</sub> (420.38). Yellow crystals (CHCl<sub>3</sub>-MeOH), mp 120–122°C. **Source:** XI QUE MEI TENG *Sageretia gracilis*. **Ref:** 2501.



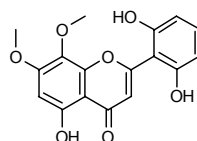
**21707** 3,5,6-Trihydroxy-7,4'-dimethoxyflavone

C<sub>17</sub>H<sub>14</sub>O<sub>7</sub> (330.30). Yellow crystals, mp 234–235°C, soluble in acetone and methanol, hardly soluble in chloroform and water. **Source:** FO SHOU *Citrus medica* var. *sarcodactylis*. **Ref:** 31.



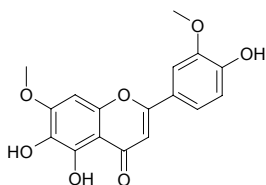
**21708** 5,2',6'-Trihydroxy-7,8-dimethoxyflavone

C<sub>17</sub>H<sub>14</sub>O<sub>7</sub> (330.30). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

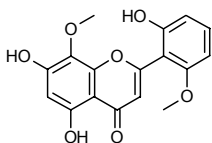


**21709 5,6,4'-Trihydroxy-7,3'-dimethoxyflavone**

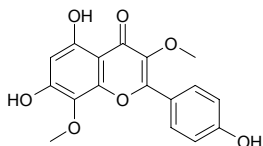
[25782-25-6] C<sub>17</sub>H<sub>14</sub>O<sub>7</sub> (330.30). Pale yellow powder, mp 268–270°C. **Pharm:** PFTase inhibitor (100µg/mL, InRt = 84%, IC<sub>50</sub> = 63µg/mL)<sup>[5378]</sup>; cytotoxic (inhibits growth of hmn cancer cells: SW620, GI<sub>50</sub> = (5.0±0.4)µmol/L, control Adriamycin, GI<sub>50</sub> = 0.34µmol/L; A549, GI<sub>50</sub> = (11±3)µmol/L, Adriamycin, GI<sub>50</sub> = 0.21µmol/L; PC3, GI<sub>50</sub> = (3.4±0.3)µmol/L, Adriamycin, GI<sub>50</sub> = 0.39µmol/L; LOX-IMVI, GI<sub>50</sub> = (2.6±0.3)µmol/L, Adriamycin, GI<sub>50</sub> = 0.12µmol/L; HCT15, GI<sub>50</sub> = (4.1±0.3)µmol/L, Adriamycin, GI<sub>50</sub> = 0.84µmol/L)<sup>[5378]</sup>; cytotoxic inactive (hmn breast cancer cell lines: MDA-MB-231, MCF7, T47D, 20µg/mL)<sup>[5378]</sup>; angiogenesis inhibitor (chicken embryo chorioallantoic membrane (CAM) assay, 10µg, InRt = 55%)<sup>[5378]</sup>; antineoplastic (nude mouse, hum,an tumor xenograft model, SW620 hmn colon cancer, 0.5% tween 80, ip 60mg/(kg·d) for 22 days, reduces tumor volume 14.6% at final day and no loss of body weight; good candidate as antitumor agents)<sup>[5378]</sup>. **Source:** AI YE *Artemisia argyi*, TA HUA BAI LI XIANG *Thymus saturoioides* (aerial parts), *Thymbra* spp. **Ref:** 1521, 5378.

**21710 5,7,2'-Trihydroxy-8,6'-dimethoxyflavone**

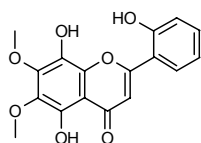
C<sub>17</sub>H<sub>14</sub>O<sub>7</sub> (330.30). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

**21711 5,7,4'-Trihydroxy-3,8-dimethoxyflavone**

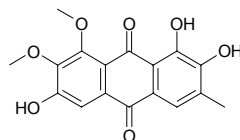
C<sub>17</sub>H<sub>14</sub>O<sub>7</sub> (330.30). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, IC<sub>50</sub> = (21.1±4.5)µg/mL; control NDGA, IC<sub>50</sub> = (0.7±0.3)µg/mL, Vitamin C, IC<sub>50</sub> = (1.9±0.7)µg/mL, Trolox, IC<sub>50</sub> = (1.4±0.5)µg/mL)<sup>[3850]</sup>; cytotoxic (XTT assay, HL-60 cells, IC<sub>50</sub> = (36.7±4.4)µg/mL; control NDGA, IC<sub>50</sub> = (2.6±0.2)µg/mL, Vitamin C, IC<sub>50</sub> > 10.0µg/mL, Trolox, IC<sub>50</sub> > 10.0µg/mL)<sup>[3850]</sup>. **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf), SAN JIAO FEN YE JUE *Pityrogramma triangularis*, *Baccharis sarothroides*, *Gutierrezia microcephala*, *Cyanostegia angustifolia* (leaf), *Cyanostegia microphylla*, *Geraea canescens*. **Ref:** 1521, 3850.

**21712 5,8,2'-Trihydroxy-6,7-dimethoxyflavone**

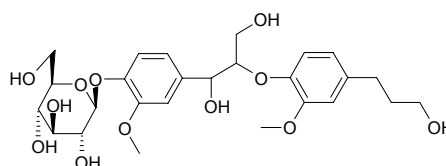
C<sub>17</sub>H<sub>14</sub>O<sub>7</sub> (330.30). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

**21713 1,2,6-Trihydroxy-7,8-dimethoxy-3-methylanthraquinone**

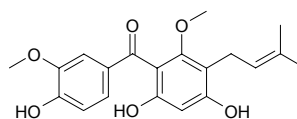
C<sub>17</sub>H<sub>14</sub>O<sub>7</sub> (330.3). Yellow needles (EtOAc-*n*-hexane), mp 271–273°C. **Pharm:** Cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, IC<sub>50</sub> > 100µmol/L). **Source:** YI HE GUO *Ventilago leiocarpa* (stem). **Ref:** 3057.

**21714 7,9,9'-Trihydroxy-3,3'-dimethoxy-8-O-4'-neolignan-4-O-β-D-glucopyranoside**

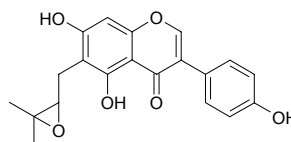
C<sub>26</sub>H<sub>36</sub>O<sub>12</sub> (540.57). [α]<sub>D</sub><sup>25</sup> = -68.6° (c = 0.11, MeOH). **Source:** SHAN FAN GEN *Symplocos caudata*. **Ref:** 2535.

**21715 4,6,4'-Trihydroxy-2,3'-dimethoxy-3-prenylbenzophenone**

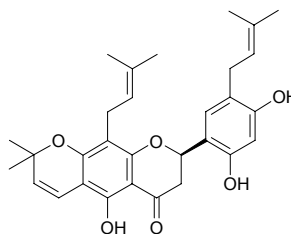
C<sub>20</sub>H<sub>22</sub>O<sub>6</sub> (358.39). Yellow oil. **Source:** SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.00052%dw). **Ref:** 4708.

**21716 5,7,4'-Trihydroxy-6-(3,3-dimethylallyloxiranylmethyl)isoflavone**

C<sub>20</sub>H<sub>18</sub>O<sub>6</sub> (354.36). Yellow amorphous powder, mp 252–254°C, [α]<sub>D</sub><sup>20</sup> = 10.8° (c = 0.1, MeOH). **Source:** CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex: yield = 0.000008%fw). **Ref:** 2269.

**21717 (2R)-5,2',4'-Trihydroxy-8,5'-di(3-methylbut-2-enyl)-6,7-(3,3-dimethylpyrano)flavanone**

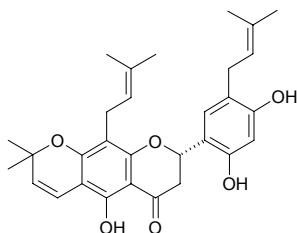
C<sub>30</sub>H<sub>34</sub>O<sub>6</sub> (490.60). Yellow oil, [α]<sub>D</sub> = +73.3° (c = 0.15, CHCl<sub>3</sub>). **Source:** FEI LV BIN QIAN JIN BA *Moghania philippinensis* (root). **Ref:** 3500.





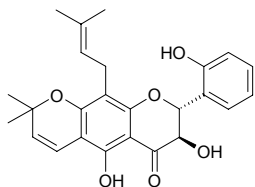
**21718 (2S)-5,2',4'-Trihydroxy-8,5'-di(3-methylbut-2-enyl)-6,7-(3,3-dimethylpyrano)flavanone**

C<sub>30</sub>H<sub>34</sub>O<sub>6</sub> (490.60). Yellow oil,  $[\alpha]_D = -84.0^\circ$  ( $c = 0.25$ , CHCl<sub>3</sub>). Source: FEI LV BIN QIAN JIN BA *Moghania philippinensis* (root). Ref: 3500.



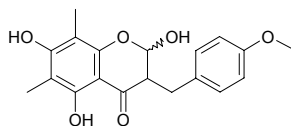
**21719 2',3,5-Trihydroxy-6,7-(2'',2''-dimethylchromene)-8-(3''',3'''-dimethylallyl)-flavanone**

Jayacanol C<sub>25</sub>H<sub>26</sub>O<sub>6</sub> (422.48). Viscous yellowish oil,  $[\alpha]_D^{20} = -54.43^\circ$  ( $c = 0.625$ , CH<sub>2</sub>Cl<sub>2</sub>). Source: *Lonchocarpus atropurpureus*. Ref: 2423.



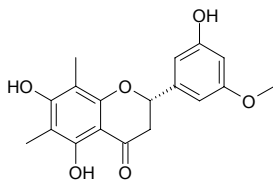
**21720 2,5,7-Trihydroxy-6,8-dimethyl-3-(4'-methoxybenzyl)chroman-4-one**

C<sub>19</sub>H<sub>20</sub>O<sub>6</sub> (344.37). Amorphous powder,  $[\alpha]_D^{22} = -8^\circ$  ( $c = 0.22$ , MeOH). Source: MAI DONG *Ophiopogon japonicus*. Ref: 2044.



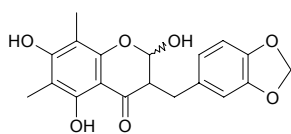
**21721 2(S)-5,7,3'-Trihydroxy-6,8-dimethyl-5'-methoxy-flavanone**

C<sub>18</sub>H<sub>18</sub>O<sub>6</sub> (330.34). Pale yellow powder, mp 202°C,  $[\alpha]_D^{23} = -4.54^\circ$  ( $c = 0.56$ , MeOH). Source: QIAN LIE LIN MAO JUE *Dryopteris sublaeta*. Ref: 4869.



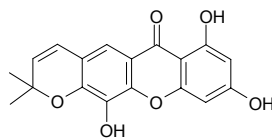
**21722 2,5,7-Trihydroxy-6,8-dimethyl-3-(3',4'-methylenedioxybenzyl)-chroman-4-one**

C<sub>19</sub>H<sub>18</sub>O<sub>7</sub> (358.35). Amorphous powder,  $[\alpha]_D^{22} = -0.5^\circ$  ( $c = 0.5$ , MeOH). Source: MAI DONG *Ophiopogon japonicus*. Ref: 2044.



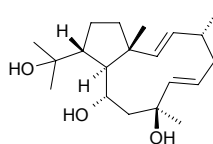
**21723 1,3,5-Trihydroxy-13,13-dimethyl-2H-pyran[6,7-b]-xanthen-9-one**

C<sub>18</sub>H<sub>14</sub>O<sub>6</sub> (326.31). Yellow solid, mp 275~277°C. Source: DAO NIAN ZI *Garcinia mangostana* (heartwood). Ref: 5311.



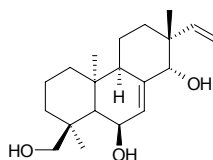
**21724 8,10,18-Trihydroxy-2,6-dolabelladiene**

C<sub>20</sub>H<sub>32</sub>O<sub>3</sub> (322.49). Colorless needles, mp 168~170°C,  $[\alpha]_D^{25} = -22^\circ$  ( $c = 0.5$ , CHCl<sub>3</sub>). Pharm: Anti-HSV-1 (Vero cells infected by HSV-1, 50μmol/L, (81±4)% of cytopathic effect inhibition of herpes virus); cytotoxic inactive (200μmol/L); HIV-1 RT inhibitor (40μmol/L, InRt = 80%, positive control AZT, 0.01μmol/L, InRt = 85%). Source: BA XI ZONG ZAO *Dictyota paffii*. Ref: 5023.



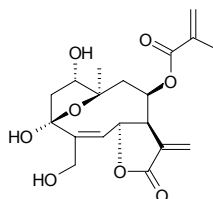
**21725 6β,14α,18-Trihydroxy-9-epi-ent-pimara-7,15-diene**

C<sub>20</sub>H<sub>32</sub>O<sub>3</sub> (320.48). Source: TENG CANG CHI MEI *Gibberella fujikuroi*. Ref: 3916.



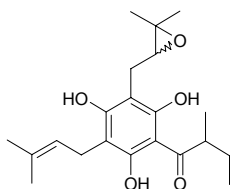
**21726 1α,3α,15-Trihydroxy-3,10-epoxy-8β-O-methacryloyl-4,11-germacradiene,6α,12-olide**

C<sub>19</sub>H<sub>24</sub>O<sub>8</sub> (380.40). Source: *Viguiera eriophora* ssp. *eriophora* (aerial parts). Ref: 5090.



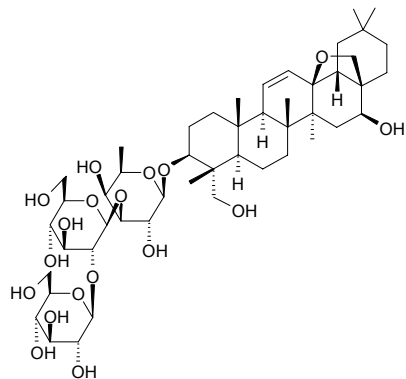
**21727 1,3,5-Trihydroxy-6-[2''',3'''-epoxy-3'''-methyl-butyl]-2-[2''-methyl-butanoyl]-4-[3'-methyl-2'-butenyl]-benzene**

$C_{21}H_{30}O_5$  (362.47). Pale yellow oil,  $[\alpha]_D^{21} = +80^\circ$  ( $c = 0.075$ ,  $CHCl_3$ ). **Pharm:** Antibacterial (multidrug-resistant strains of *Staphylococcus aureus*: ATCC 25923, MIC = 32 $\mu$ g/mL, control Norfloxacin, MIC = 2 $\mu$ g/mL, Erythromycin, MIC = 0.25 $\mu$ g/mL, Tetracycline, MIC = 0.25 $\mu$ g/mL; SA-1199B(NorA), MIC = 16 $\mu$ g/mL, Norfloxacin, MIC = 32 $\mu$ g/mL, Erythromycin MIC = 0.25 $\mu$ g/mL, Tetracycline MIC = 0.25 $\mu$ g/mL; RN4220(MsrA), MIC = 16 $\mu$ g/mL, Norfloxacin, MIC = 2 $\mu$ g/mL, Erythromycin MIC = 128 $\mu$ g/mL, Tetracycline MIC = 0.25 $\mu$ g/mL; XU212(TetK, *mecA*), MIC = 16 $\mu$ g/mL, Norfloxacin, MIC = 16 $\mu$ g/mL, Erythromycin MIC > 256 $\mu$ g/mL, Tetracycline MIC = 128 $\mu$ g/mL). **Source:** DUO YE JIN SI TAO *Hypericum foliosum*. **Ref:** 5294.



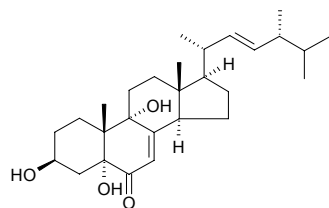
**21728 3 $\beta$ ,16 $\beta$ ,23-Trihydroxy-13,28-epoxyolean-11-en-3 $\beta$ -yl- $[\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)]- $[\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 3)]- $[\beta$ -D-fucopyranoside**

$C_{48}H_{78}O_{18}$  (943.15). Amorphous powder,  $[\alpha]_D^{25} = +15.7^\circ$  ( $c = 0.06$ , MeOH). **Source:** GUAN MU CHAI HU *Bupleurum fruticosum*, ZHI BU LUO TUO CAI HU *Bupleurum gibraltarium* (root). **Ref:** 2247, 3980.



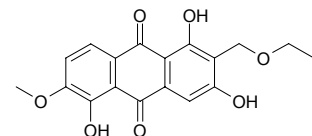
**21729 3 $\beta$ ,5 $\alpha$ ,9 $\alpha$ -Trihydroxy-(22E)-ergosta-7,22-dien-6-one**

$C_{28}H_{44}O_4$  (444.66). **Source:** *Pleurotus eryngii*. **Ref:** 4183.



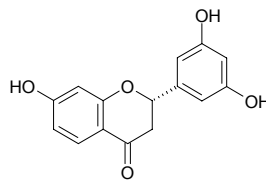
**21730 1,3,5-Trihydroxy-2-ethoxymethyl-6-methoxy-anthraquinone**

$C_{18}H_{16}O_7$  (344.32). Orange-red needles ( $CHCl_3$ ), mp 189–191°C. **Source:** HONG YA DA JI *Knoxia valerianoides* (root). **Ref:** 4866.



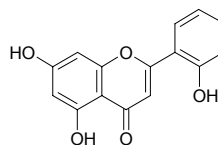
**21731 7,3',5'-Trihydroxyflavanone**

$C_{15}H_{12}O_5$  (272.26). Yellow powder, mp 223–225°C,  $[\alpha]_D^{25} = -22.88^\circ$  ( $c = 0.08$ , acetone). **Source:** ZHONG JIAN JIN JI ER *Caragana intermedia*. **Ref:** 2472.



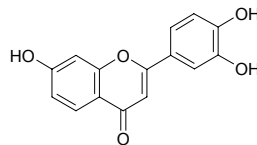
**21732 5,7,2'-Trihydroxyflavone**

[73046-40-9]  $C_{15}H_{10}O_5$  (270.24). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.



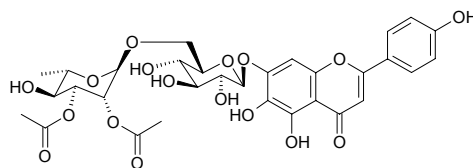
**21733 7,3',4'-Trihydroxyflavone**

[2150-11-0]  $C_{15}H_{10}O_5$  (270.24). **Source:** BAI CI HUA ZI *Sophora viciifolia*. **Ref:** 561.



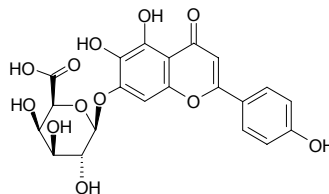
**21734 5,6,4'-Trihydroxyflavone 7-O- $\alpha$ -L-2,3-di-O-acetyl-rhamnopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside**

$C_{31}H_{34}O_{17}$  (678.61). Yellow powder (MeOH), mp 168–171°C,  $[\alpha]_D^{27} = -55.4^\circ$  ( $c = 0.9$ , MeOH). **Pharm:** Neurite outgrowth enhancer inactive (PC12D cells, nerve growth factor-mediated, 10–100 $\mu$ mol/L). **Source:** YE GAN CAO *Scoparia dulcis* (aerial parts: yield = 0.001%). **Ref:** 4745.



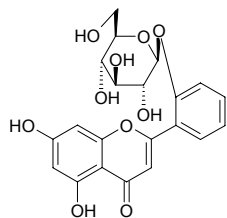
**21735 5,6,4'-Trihydroxyflavone 7-O- $\beta$ -D-galactonic acid**

$C_{21}H_{18}O_{12}$  (462.37). Yellow powder. **Source:** DENG ZHAN XI XIN *Erigeron breviscapus*. **Ref:** 785.

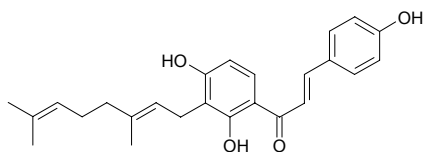


**21736 5,7,2'-Trihydroxyflavone 2'-O-β-D-glucopyranoside**

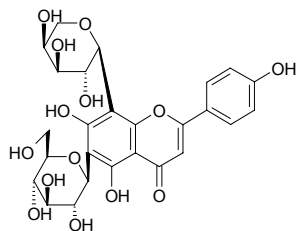
C<sub>21</sub>H<sub>20</sub>O<sub>10</sub> (432.39). Yellow needles (MeOH), mp 252~253°C (dec), [α]<sub>D</sub><sup>25</sup> = -67.6° (c = 0.042, MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root). Ref: 2072.

**21737 2',4,4'-Trihydroxy-3'-geranylchalcone**

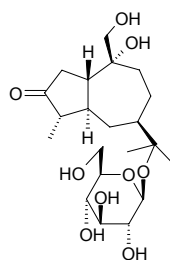
C<sub>25</sub>H<sub>28</sub>O<sub>4</sub> (392.50). mp 141~143°C. Pharm: Antifungal (*Cladosporium cladosporioides*, TLC bioautography method, 5μg/spot, control Benlate); antioxidant (DPPH scavenger, TLC bioautography method, 1μg/spot, control Vitamin E, 1μg/spot). Source: GAO GUI BO LUO MI *Artocarpus nobilis* (leaf). Ref: 3813.

**21738 5,7,4'-Trihydroxy-6-C-glucoside-8-C-arabinoside flavone**

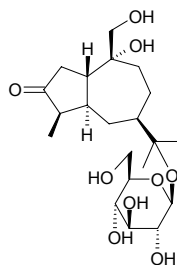
C<sub>26</sub>H<sub>28</sub>O<sub>14</sub> (564.50). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**21739 (1S,4S,5S,7R,10R)-10,11,14-Trihydroxyguai-3-one 11-O-β-D-glucopyranoside**

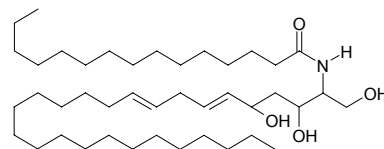
C<sub>21</sub>H<sub>36</sub>O<sub>9</sub> (432.52). Amorphous powder, [α]<sub>D</sub><sup>22</sup> = +3° (c = 1.2, MeOH). Source: CANG ZHU *Atractylodes lancea*, GUAN CANG ZHU *Atractylodes japonica* (fresh rhizome). Ref: 4310, 4348.

**21740 (1S,4S,5S,7R,10S)-10,11,14-Trihydroxyguai-3-one 11-O-β-D-glucopyranoside**

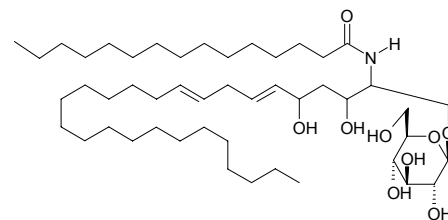
C<sub>21</sub>H<sub>36</sub>O<sub>9</sub> (432.52). Amorphous powder, [α]<sub>D</sub><sup>22</sup> = +1° (c = 0.7, MeOH). Source: CANG ZHU *Atractylodes lancea*. Ref: 4348.

**21741 1,3,5-Trihydroxy-2-hexadecanoylamino-(6E,9E)-heptacosdiene**

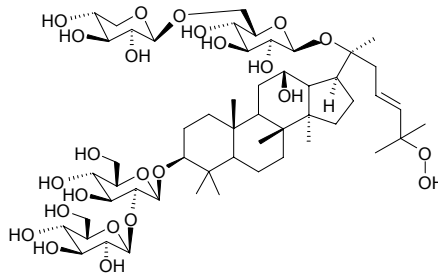
C<sub>42</sub>H<sub>81</sub>NO<sub>4</sub> (664.12). Colorless gummy solid, [α]<sub>D</sub><sup>25</sup> = -26.2° (c = 0.10, pyridine). Source: QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. Ref: 4249.

**21742 1,3,5-Trihydroxy-2-hexadecanoylamino-(6E,9E)-heptacosdiene-1-O-glucopyranoside**

C<sub>48</sub>H<sub>91</sub>NO<sub>9</sub> (826.26). Colorless gummy solid, [α]<sub>D</sub><sup>25</sup> = -33.2° (c = 0.12, pyridine). Source: QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. Ref: 4249.

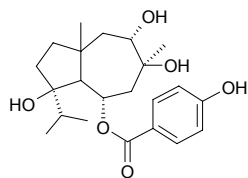
**21743 3β,12,20S-Trihydroxy-25-hydroperoxydammar-23-ene 3-O-[[β-D-glucopyranosyl(1→2)-β-D-glucopyranosyl]-20-O-[[β-D-xylopyranosyl(1→6)]-β-D-glucopyranoside]**

C<sub>53</sub>H<sub>90</sub>O<sub>24</sub> (1111.29). Amorphous powder, [α]<sub>D</sub><sup>20</sup> = +20.3° (c = 0.83, MeOH). Source: JIAO GU LAN *Gynostemma pentaphyllum* (aerial parts: yield = 0.0015%dw). Ref: 4751.

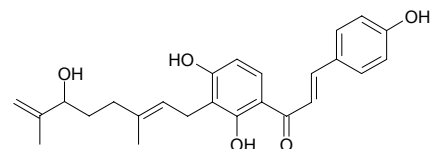


**21744 4 $\beta$ ,8 $\beta$ ,9 $\alpha$ -Trihydroxy-6 $\alpha$ -*p*-hydroxybenzoyloxydaucane**

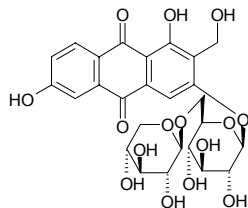
C<sub>22</sub>H<sub>32</sub>O<sub>6</sub> (392.50). Source: YI LANG A WEI *Ferula kuhistanica* (root). Ref: 3977.

**21745 2',4,4'-Trihydroxy-3'-[16-hydroxy-3,7-dimethyl-2(*E*),7-octadienyl] chalcone**

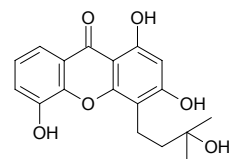
C<sub>25</sub>H<sub>28</sub>O<sub>5</sub> (408.50). Amorphous solid. Pharm: Antifungal (*Cladosporium cladosporioides*, TLC bioautography method, 5 $\mu$ g/spot, control Benlate); antioxidant (DPPH scavenger, TLC bioautography method, 1 $\mu$ g/spot, control Vitamin E, 1 $\mu$ g/spot). Source: GAO GUI BO LUO MI *Artocarpus nobilis* (leaf). Ref: 3813.

**21746 1,3,6-Trihydroxy-2-hydroxymethyl-9,10-anthraquinone 3-O- $\beta$ -Primeveroside**

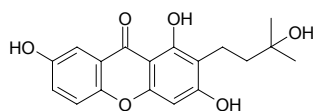
C<sub>26</sub>H<sub>28</sub>O<sub>15</sub> (580.50). Yellow powder. Source: MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (leaf and stem). Ref: 4219.

**21747 1,3,5-Trihydroxy-4-(3-hydroxy-3-methylbutyl)xanthone**

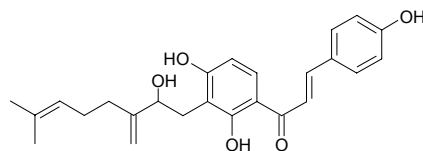
C<sub>18</sub>H<sub>18</sub>O<sub>6</sub> (330.34). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**21748 1,3,7-Trihydroxy-2-(3-hydroxy-3-methylbutyl)xanthone**

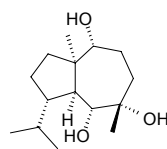
C<sub>18</sub>H<sub>18</sub>O<sub>6</sub> (330.34). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**21749 2',4',4'-Trihydroxy-3'-[2-hydroxy-7-methyl-3-methylene-6-octae-nyl]chalcone**

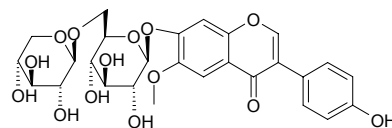
C<sub>25</sub>H<sub>28</sub>O<sub>5</sub> (408.50). Amorphous solid. Pharm: Antifungal (*Cladosporium cladosporioides*, TLC bioautography method, 5 $\mu$ g/spot, control Benlate); antioxidant (DPPH scavenger, TLC bioautography method, 1 $\mu$ g/spot, control Vitamin E, 1 $\mu$ g/spot). Source: GAO GUI BO LUO MI *Artocarpus nobilis* (leaf). Ref: 3813.

**21750 6,7,10-Trihydroxyisodaucane**

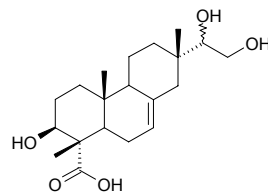
C<sub>15</sub>H<sub>20</sub>O<sub>3</sub> (256.39). Colorless crystals (*n*-hexane:CH<sub>2</sub>Cl<sub>2</sub> = 7:3), mp 143–145°C, [ $\alpha$ ]<sub>D</sub><sup>22</sup> = -5.6° (*c* = 0.55, MeOH). Source: *Reneilmia cincinnata* (fruits). Ref: 2383.

**21751 4',6,7-Trihydroxyisoflavone-6-methylether-7-O- $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside**

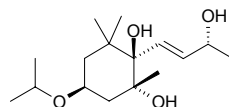
C<sub>27</sub>H<sub>30</sub>O<sub>14</sub> (578.53). Colorless needles (MeOH), mp > 300°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -54.3° (*c* = 0.15, DMSO). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 2281.

**21752 3 $\beta$ ,15 $\xi$ ,16-Trihydroxy-isopimaric acid**

C<sub>20</sub>H<sub>32</sub>O<sub>5</sub> (352.48). White acicular crystals, mp 256–258°C, [ $\alpha$ ]<sub>D</sub><sup>21</sup> = +27.9° (*c* = 0.05, methanol). Source: WU LING ZHI *Trogopterus xanthipes*; *Pteromys volans*. Ref: 88.

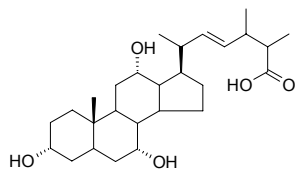
**21753 (3*S*,5*R*,6*R*,7*E*,9*R*)-5,6,9-Trihydroxy-3-isopropoxy-7-megastigmene**

C<sub>16</sub>H<sub>30</sub>O<sub>4</sub> (286.42). Colorless oil, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -11.7° (*c* = 0.02, MeOH). Source: PA KE YE XIANG SHU *Cestrum parqui* (fresh leaf). Ref: 5327.

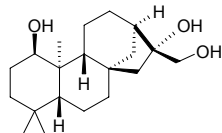


**21754 Trihydroxy-isosterocholenic acid**

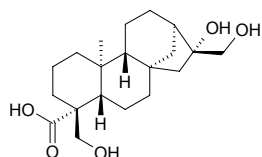
$C_{27}H_{44}O_5$  (448.65). mp 227°C. Source: CHAN CHU DAN *Bufo bufo* *gargarizans*; *Bufo melanostictus*. Ref: 6.

**21755 1 $\beta$ ,16 $\alpha$ ,17-Trihydroxy-ent-kaurane**

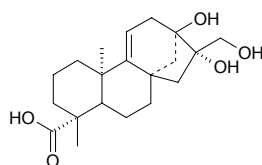
$C_{20}H_{34}O_3$  (322.49). White solid, mp 182°C,  $[\alpha]_D^{25} = +6.0^\circ$  ( $c = 0.1$ , MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol,  $ED_{50} = 0.002\mu\text{g/mL}$ ,  $0.003\mu\text{g/mL}$ ,  $0.0005\mu\text{g/mL}$ ,  $0.001\mu\text{g/mL}$ ,  $0.004\mu\text{g/mL}$ ,  $0.008\mu\text{g/mL}$ , respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21756 ent-16 $\beta$ ,17,18-Trihydroxy-kauran-19-oic acid**

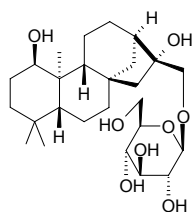
$C_{20}H_{30}O_5$  (352.48). White acicular crystals, mp 244–246°C, solving in methanol and acetone, hard to solve in water. Source: XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*]. Ref: 2174.

**21757 13,16 $\alpha$ ,17-Trihydroxy-ent-9(11)-kauren-19-oic acid**

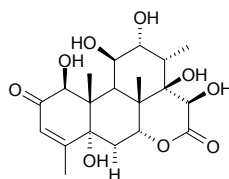
$C_{20}H_{30}O_5$  (350.46). White amorphous solid,  $[\alpha]_D^{20} = +67.4^\circ$  ( $c = 0.5$ ,  $\text{CHCl}_3:\text{MeOH} = 1:1$ ). Source: MU LAN<sup>(3)</sup> *Bruguiera gymnorrhiza* (stem; yield = 0.000084%). Ref: 4770.

**21758 1 $\beta$ ,16 $\alpha$ ,17-Trihydroxy-ent-kaur-17-O- $\beta$ -D-glucopyranoside**

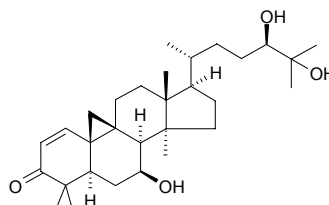
$C_{26}H_{44}O_8$  (484.64). White amorphous solid, mp 270°C (dec),  $[\alpha]_D^{25} = +9.0^\circ$  ( $c = 0.1$ , MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol,  $ED_{50} = 0.002\mu\text{g/mL}$ ,  $0.003\mu\text{g/mL}$ ,  $0.0005\mu\text{g/mL}$ ,  $0.001\mu\text{g/mL}$ ,  $0.004\mu\text{g/mL}$ ,  $0.008\mu\text{g/mL}$ , respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21759 5 $\alpha$ ,14 $\beta$ ,15 $\beta$ -Trihydroxyklaineanone**

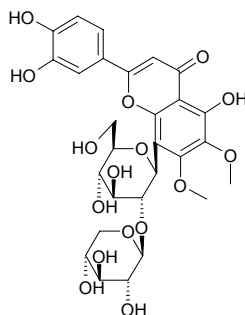
$C_{20}H_{28}O_9$  (412.44). Source: *Eurycoma* sp. Ref: 4556.

**21760 (24R)-7 $\beta$ ,24,25-Trihydroxy-9,19-cycloart-1-en-3-one**

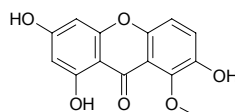
Sphaerophysone A  $C_{30}H_{48}O_4$  (472.71). Colorless needles (MeOH), mp 178–180°C. Source: KU MA DOU *Swainsonia salsula* [Syn. *Sphaerophysa salsula*]. Ref: 2512.

**21761 5,3',4'-Trihydroxyl-6,7-dimethoxy-8-C-[ $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 2)]- $\beta$ -D-glucopyranosyl flavone**

$C_{28}H_{32}O_{16}$  (624.56). Yellow amorphous powder, mp 192–194°C,  $[\alpha]_D^{25} = -22.9^\circ$  ( $c = 0.46$ , MeOH). Source: SHI DAN CAO *Coraliodiscus flabellatus* [Syn. *Didissandra flabellata*] (whole herb). Ref: 4830.

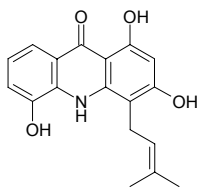
**21762 1,3,7-Trihydroxyl-8-methoxyxanthone**

$C_{14}H_{10}O_6$  (274.23). Yellow long acicular crystals, mp 224–225°C. Source: BAO E ZHANG YA CAI *Swertia calycina*. Ref: 634.

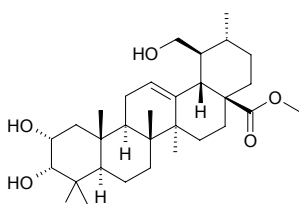


**21763 1,3,5-Trihydroxy-4-prenylacridone**

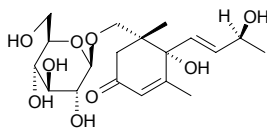
1,3,5-Trihydroxy-4-( $\gamma$ ,  $\gamma$ -dimethylallyl)acridone C<sub>18</sub>H<sub>17</sub>NO<sub>4</sub> (311.34). Yellow powder (MeOH), mp 250°C,  $[\alpha]_D^{25} = +51.6^\circ$  ( $c = 0.62$ , MeOH). **Pharm:**  $\alpha$ -Glucosidase inhibitor (IC<sub>50</sub> = (17±1)μmol/L, control Deoxynojirimycin, IC<sub>50</sub> = (330±8)mmol/L); antioxidant (DPPH Scavenger, IC<sub>50</sub> = (119±4)μmol/L, control BHA, IC<sub>50</sub> = (44.20±0.02)μmol/L). **Source:** *Oriopsis glaberrima* (stem cortex: yield = 0.00063%dw). **Ref:** 1590.

**21764 2 $\alpha$ ,3 $\alpha$ ,24-Trihydroxyursa-12-en-28-oate**

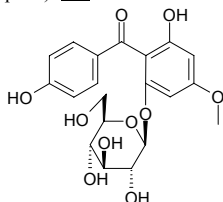
C<sub>31</sub>H<sub>50</sub>O<sub>5</sub> (502.74). **Source:** XIA KU CAO *Prunella vulgaris*. **Ref:** 2508.

**21765 (1R,6R,9S)-6,9,11-Trihydroxy-4,7-megastigmadien-3-one 11-O-β-D-glucopyranoside**

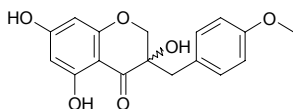
C<sub>19</sub>H<sub>30</sub>O<sub>9</sub> (402.45). White powder,  $[\alpha]_D = +85.9^\circ$  ( $c = 0.32$ , MeOH). **Pharm:** Antibacterial (*Helicobacter pylori* NCTC11637, MIC = 100μg/mL, NCTC11916, MIC = 100μg/mL, OCO1, MIC = 100μg/mL, control Hinokitiol (Nat. or Syn.), MIC = 100μg/mL, 100μg/mL, 50μg/mL, respectively). **Source:** OU ZHOU CI BAI BIAN ZHONG *Juniperus communis* var. *depressa* (twig with leaf). **Ref:** 4477.

**21766 2,4',6-Trihydroxy-4-methoxybenzophenone-2-O-glucoside**

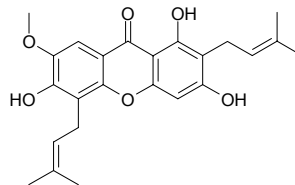
C<sub>20</sub>H<sub>22</sub>O<sub>10</sub> (422.39). Light-yellow powder, mp 133~135°C,  $[\alpha]_D^{21} = -23^\circ$  ( $c = 0.1$ , MeOH). **Source:** ZONG BAO GE NI DI MU *Gnidia involucrata* (aerial parts). **Ref:** 3996.

**21767 3,5,7-Trihydroxy-3-(4'-methoxybenzyl)-4-chromanone**

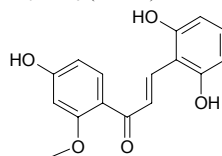
C<sub>17</sub>H<sub>16</sub>O<sub>6</sub> (316.31). Brown gum. **Source:** HE CAO YE JIA BEI FANG FENG *Ledebouria graminifolia* (tuber). **Ref:** 3368.

**21768 1,3,6-Trihydroxy-7-methoxy-2,5-bis(3-methyl-2-butenyl)-xanthone**

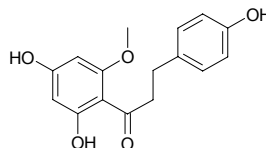
C<sub>24</sub>H<sub>26</sub>O<sub>6</sub> (410.47). **Pharm:** Antioxidant (DPPH scavenger, IC<sub>50</sub> > 200μmol/L, control BHT, IC<sub>50</sub> = 5.10μg/mL; crude latex of *Garcinia cowa*, IC<sub>50</sub> = 13.20μg/mL)<sup>[5281]</sup>. **Source:** TIAN SHAN ZHU ZI *Garcinia dulcis* (flower), YUN NAN SHAN ZHU ZI *Garcinia cowa* (latex). **Ref:** 4422, 5281.

**21769 7,2',6'-Trihydroxy-5-methoxychalcone**

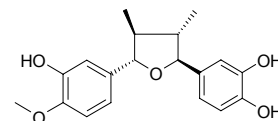
C<sub>16</sub>H<sub>14</sub>O<sub>5</sub> (286.29). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

**21770 4,2',4'-Trihydroxy-6'-methoxydihydrochalcone**

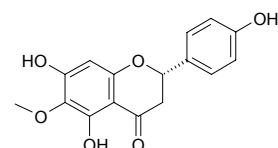
C<sub>16</sub>H<sub>16</sub>O<sub>5</sub> (288.30). Pale amorphous solid. **Source:** CHANG YE GE NA XIANG *Goniothalamus gardneri* (aerial parts). **Ref:** 5096.

**21771 (7S,8S,7'S,8'S)-3,3',4'-Trihydroxy-4-methoxy-7,7'-epoxyignan**

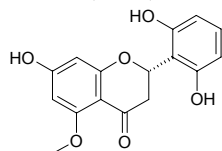
C<sub>19</sub>H<sub>22</sub>O<sub>5</sub> (330.38). Reddish-brown powder,  $[\alpha]_D^{25} = -60^\circ$  ( $c = 0.001$ , MeOH). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells, IC<sub>50</sub> = (1.3±0.4)μg/mL; control NDGA, IC<sub>50</sub> = (0.7±0.3)μg/mL, Vitamin C, IC<sub>50</sub> = (1.9±0.7)μg/mL, Trolox, IC<sub>50</sub> = (1.4±0.5)μg/mL); cytotoxic (XTT assay, HL-60 cells, IC<sub>50</sub> = (17.3±1.5)μg/mL; control NDGA, IC<sub>50</sub> = (2.6±0.2)μg/mL, Vitamin C, IC<sub>50</sub> > 10.0μg/mL, Trolox, IC<sub>50</sub> > 10.0μg/mL). **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf). **Ref:** 3850.

**21772 5,7,4'-Trihydroxy-6-methoxyflavanone**

C<sub>16</sub>H<sub>14</sub>O<sub>6</sub> (302.29). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

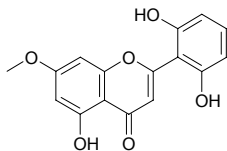
**21773 7,2',6'-Trihydroxy-5-methoxyflavanone**

C<sub>16</sub>H<sub>14</sub>O<sub>6</sub> (302.39). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 2.

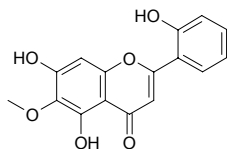


**21774 5,2',6'-Trihydroxy-7-methoxyflavone**

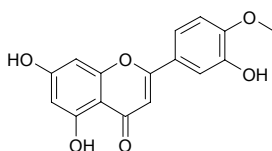
$C_{16}H_{12}O_6$  (300.27). Yellow needles, mp 210~211°C (MeOH). Source: SHEN CHANG CHUAN XIN LIAN *Andrographis elongata* (whole herb). Ref: 4149.

**21775 5,7,2'-Trihydroxy-6-methoxyflavone**

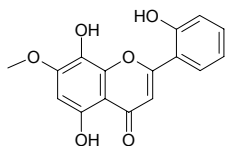
$C_{16}H_{12}O_6$  (300.27). Source: HUANG QIN *Scutellaria baicalensis*, DIAN HUANG QIN *Scutellaria amoena*. Ref: 2, 660.

**21776 5,7,3'-Trihydroxy-4'-methoxyflavone**

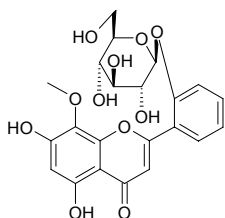
$C_{16}H_{12}O_6$  (300.27). Pharm: Antitubercular (*Mycobacterium tuberculosis*, MIC > 128µg/mL, cytotoxic, Vero cells, IC<sub>50</sub> = 65.0µg/mL, positive control Rifampin, MIC = 0.03µg/mL, IC<sub>50</sub> = 98.3µg/mL, SI = 3300). Source: SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root). Ref: 4986.

**21777 5,8,2'-Trihydroxy-7-methoxyflavone**

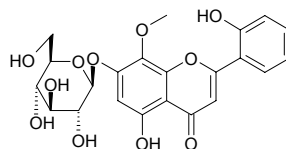
$C_{16}H_{12}O_6$  (300.27). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**21778 5,7,2'-Trihydroxy-8-methoxyflavone 2'-O-β-D-glucopyranoside**

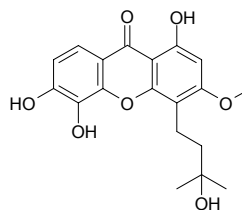
$C_{22}H_{22}O_{11}$  (462.41). Yellow needles (MeOH), mp 266~267°C (dec),  $[\alpha]_D^{25} = -51.3$  ( $c = 0.048$ , MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0025%dw). Ref: 2072.

**21779 5,7,2'-Trihydroxy-8-methoxyflavone 7-O-β-D-glucopyranoside**

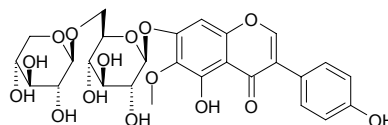
$C_{22}H_{22}O_{11}$  (462.41). Yellow needles (MeOH), mp 263~264°C (dec),  $[\alpha]_D^{25} = -77.5^\circ$  ( $c = 0.035$ , MeOH). Source: KE AI HUANG QIN *Scutellaria amabilis* (root: yield = 0.0006%dw). Ref: 2072.

**21780 1,5,6-Trihydroxy-3-methoxy-4-(3-hydroxyl-3-methylbutyl)xanthone**

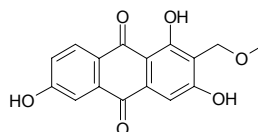
$C_{19}H_{20}O_7$  (360.37). Pale yellow amorphous powder. Source: YUN NAN SHAN ZHU ZI *Garcinia cowa* (stem: yield = 0.0010%dw). Ref: 916.

**21781 4',5,7-Trihydroxy-6-methoxyisoflavone 7-O-β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside**

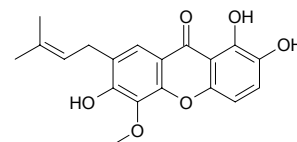
$C_{27}H_{30}O_{15}$  (594.53). Pale yellowish powder (MeOH), mp = > 300°C,  $[\alpha]_D^{25} = -43.3^\circ$  ( $c = 0.15$ , DMSO). Source: GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*]. Ref: 2281.

**21782 1,3,6-Trihydroxy-2-methoxymethyl-9,10-anthraquinone**

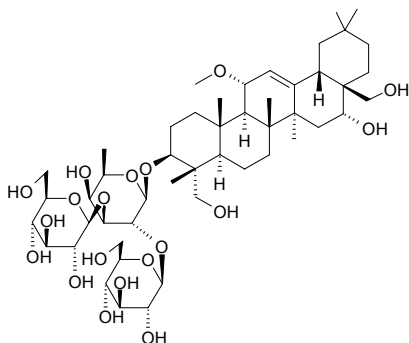
$C_{16}H_{12}O_6$  (300.27). Orange powder. Source: MA LAI BAN DAO RAN MU SHU *Saprosma scortechinii* (leaf and stem). Ref: 4219.

**21783 1,2,6-Trihydroxy-5-methoxy-7-(3-methylbut-2-enyl)xanthone**

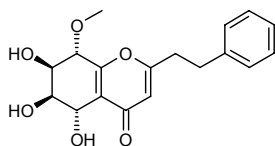
$C_{19}H_{18}O_6$  (342.35). Yellow needles, mp 220~222°C. Pharm: Neurite outgrowth activity (NGF-mediated, PC12D cells, EC = 10-30µmol/L). Source: DA YE TENG HUANG *Garcinia xanthochymus* (wood). Ref: 3473.



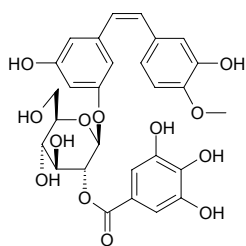
**21784** 16 $\alpha$ ,23,28-Trihydroxy-11 $\alpha$ -methoxyolean-12-en-3 $\beta$ -yl- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)]- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 3)]- $\beta$ -D-fucopyranoside  
C<sub>49</sub>H<sub>82</sub>O<sub>19</sub> (975.19). Source: GUAN MU CHAI HU *Bupleurum fruticosum*.  
Ref: 2247.



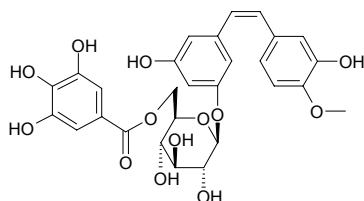
**21785** 5 $\alpha$ ,6 $\beta$ ,7 $\beta$ -Trihydroxy-8 $\alpha$ -methoxy-2-(2-phenylethyl)-5,6,7,8-tetrahydro chromone  
C<sub>18</sub>H<sub>20</sub>O<sub>6</sub> (332.36). White powder, mp 130~135°C, [ $\alpha$ ]<sub>D</sub> = +1.94°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.



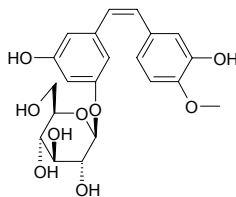
**21786** *cis*-3,5,3'-Trihydroxy-4'-methoxystilbene-3-O- $\beta$ -D-(2''-O-galloyl) glucopyranoside  
C<sub>28</sub>H<sub>28</sub>O<sub>13</sub> (572.53). Source: ZHANG YE DA HUANG *Rheum palmatum*. Ref: 660.



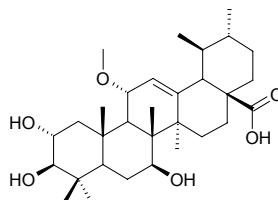
**21787** *cis*-3,5,3'-Trihydroxy-4'-methoxystilbene-3-O- $\beta$ -D-(6''-O-galloyl) glucopyranoside  
C<sub>28</sub>H<sub>28</sub>O<sub>13</sub> (572.53). Source: ZHANG YE DA HUANG *Rheum palmatum*.  
Ref: 660.



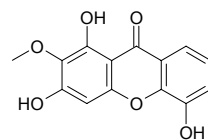
**21788** *cis*-3,5,3'-Trihydroxy-4'-methoxystilbene-3-O- $\beta$ -D-glucopyranoside  
C<sub>21</sub>H<sub>24</sub>O<sub>9</sub> (420.42). Source: ZHANG YE DA HUANG *Rheum palmatum*. Ref: 660.



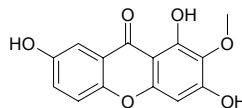
**21789** 2 $\alpha$ ,3 $\beta$ ,7 $\beta$ -Trihydroxy-11 $\alpha$ -methoxyurs-12-en-28-oic acid  
C<sub>31</sub>H<sub>50</sub>O<sub>6</sub> (518.74). Source: DUN XING CHI AN YE *Eucalyptus camaldulensis* var. *obtus* (fresh leaf). Ref: 3993.



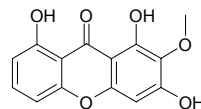
**21790** 1,3,5-Trihydroxy-2-methoxyxanthone  
C<sub>14</sub>H<sub>10</sub>O<sub>6</sub> (274.23). Pharm: Antifungal (*Aspergillus fumigatus* CBS113.26, MIC<sub>80</sub> = 31 μg/mL, control Amphotericin B, MIC<sub>80</sub> = 8 μg/mL; *Aspergillus flavus* IHEM37.19, MIC<sub>80</sub> = 31 μg/mL, Amphotericin B, MIC<sub>80</sub> = 8 μg/mL; *Aspergillus niger* IHEM2951, MIC<sub>80</sub> = 62 μg/mL, Amphotericin B, MIC<sub>80</sub> = 16 μg/mL; *Aspergillus terreus* 5029.2000, MIC<sub>80</sub> = 125 μg/mL; Amphotericin B, MIC<sub>80</sub> = 16 μg/mL; *Candida albicans* ATCC663.90, MIC<sub>80</sub> = 62 μg/mL; Amphotericin B, MIC<sub>80</sub> = 1 μg/mL). Source: SU GE LAN HU TONG *Calophyllum caledonicum* (stem cortex). Ref: 4995.



**21791** 1,3,7-Trihydroxy-2-methoxyxanthone  
C<sub>14</sub>H<sub>10</sub>O<sub>6</sub> (274.23). Source: CHAN YI TENG *Securidaca inappendiculata* (stem). Ref: 5238.



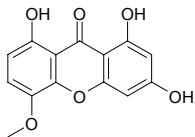
**21792** 1,3,8-Trihydroxy-2-methoxyxanthone  
C<sub>14</sub>H<sub>10</sub>O<sub>6</sub> (274.23). Source: CHAN YI TENG *Securidaca inappendiculata* (stem). Ref: 5238.



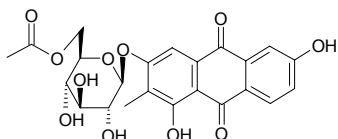


**21793 1,3,8-Trihydroxy-5-methoxyxanthone**

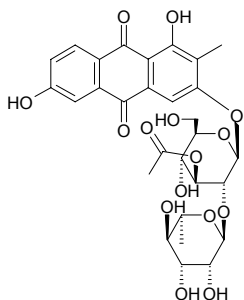
$C_{14}H_{10}O_6$  (274.23). Yellow needles, mp 262–264°C (sub.). Source: CHUAN DONG ZHANG YA CAI *Swertia davidii*. Ref: 2214.

**21794 1,3,6-Trihydroxy-2-methyl-9,10-anthra-quinone-3-O-(6'-O-acetyl)-β-D-glucoside**

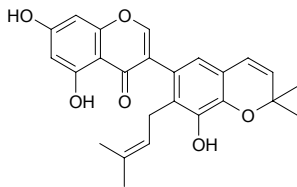
$C_{23}H_{22}O_{11}$  (474.43). Yellow crystals powder (methanol), mp 263–264°C; yellow needles (MeOH), mp 268–269°C. Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 8, 174, 660.

**21795 1,3,6-Trihydroxy-2-methylanthraquinone-3-O-α-rhamnosyl (1→2)-3'-O-acetylglucoside**

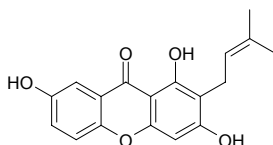
$C_{29}H_{32}O_{15}$  (620.57). Source: QIAN CAO GEN *Rubia cordifolia*. Ref: 660.

**21796 5,7,3'-Trihydroxy-2'-(3-methylbut-2-enyl)-4',5'-(3,3-dimethylpyrano)isoflavone**

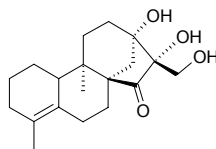
$C_{25}H_{24}O_6$  (420.47). Amorphous yellow solid. Source: FEI LV BIN QIAN JIN BA *Moghania philippinensis* (root). Ref: 3500.

**21797 1,3,7-Trihydroxy-2-(3-methylbut-2-enyl)xanthone**

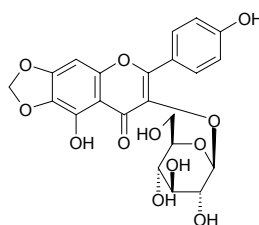
$C_{18}H_{16}O_5$  (312.33). Pharm: Cytotoxic (HSC-2 cells,  $CC_{50} > 0.64$ mmol/L; HGF,  $CC_{50} > 0.64$ mmol/L). Source: GOU JI *Cudrania cochinchinensis* (root; yield = 0.00057%dw). Ref: 3025.

**21798 13α,16α,17-Trihydroxy-9α-methyl-19,20-di-nor-kauran-4-en-15-one**

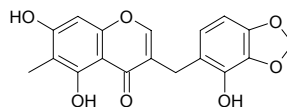
$C_{19}H_{28}O_4$  (320.43). Pale-yellow crystals, mp 100–103°C,  $[\alpha]_D^{25} = +23.3^\circ$  ( $c = 0.1$ , MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol,  $ED_{50} = 0.002\mu\text{g/mL}$ ,  $0.003\mu\text{g/mL}$ ,  $0.0005\mu\text{g/mL}$ ,  $0.001\mu\text{g/mL}$ ,  $0.004\mu\text{g/mL}$ ,  $0.008\mu\text{g/mL}$ , respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

**21799 3,5,4'-Trihydroxy-6,7-methylenedioxyflavone-3-O-β-D-glucopyranoside**

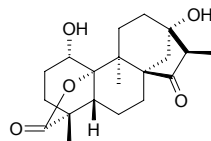
$C_{22}H_{20}O_{12}$  (476.40). Source: LIAO LAN YE *Polygonum tinctorium*. Ref: 660.

**21800 5,7,2'-Trihydroxy-6-methyl-3-(3',4'-methylenedioxybenzyl) chromone**

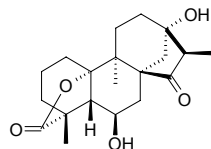
$C_{18}H_{14}O_7$  (342.31). Source: MAI DONG *Ophiopogon japonicus* (tuber). Ref: 4663.

**21801 1α,10α,13α-Trihydroxy-9α-methyl-15-oxo-20-nor-kauran-19-oic acid γ-lactone**

$C_{20}H_{28}O_5$  (348.44). White amorphous solid, mp 187–200°C,  $[\alpha]_D^{25} = +23.0^\circ$  ( $c = 0.1$ , MeOH). Pharm: Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol,  $ED_{50} = 0.002\mu\text{g/mL}$ ,  $0.003\mu\text{g/mL}$ ,  $0.0005\mu\text{g/mL}$ ,  $0.001\mu\text{g/mL}$ ,  $0.004\mu\text{g/mL}$ ,  $0.008\mu\text{g/mL}$ , respectively). Source: *Parinari sprucei* (leaf). Ref: 4991.

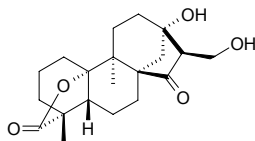
**21802 6β,10α,13α-Trihydroxy-9α-methyl-15-oxo-20-nor-kauran-19-oic acid (19,10)-lactone**

$C_{20}H_{28}O_5$  (348.44). White amorphous solid, mp 167–170°C,  $[\alpha]_D^{25} = +18.0^\circ$  ( $c = 0.1$ , MeOH). Source: *Parinari sprucei* (leaf). Ref: 4991.



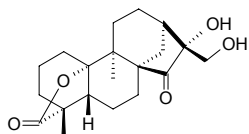
**21803 10 $\alpha$ ,13 $\alpha$ ,17-Trihydroxy-9 $\alpha$ -methyl-15-oxo-20-nor-kauran-19-oic acid  $\gamma$ -lactone**

C<sub>20</sub>H<sub>28</sub>O<sub>5</sub> (348.44). White amorphous solid, mp 193~200°C (dec), [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +24.0° (c = 0.1, MeOH). **Pharm:** Cytotoxic (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC, ED<sub>50</sub> = 10~20 $\mu$ g/mL; control Taxol, ED<sub>50</sub> = 0.002 $\mu$ g/mL, 0.003 $\mu$ g/mL, 0.0005 $\mu$ g/mL, 0.001 $\mu$ g/mL, 0.004 $\mu$ g/mL, 0.008 $\mu$ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



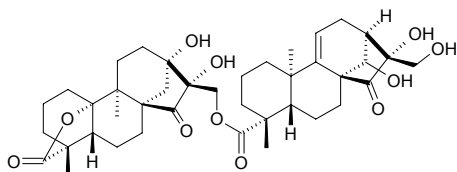
**21804 10 $\alpha$ ,16 $\alpha$ ,17-Trihydroxy-9 $\alpha$ -methyl-15-oxo-20-nor-kauran-19-oic acid  $\gamma$ -lactone**

C<sub>20</sub>H<sub>28</sub>O<sub>5</sub> (348.44). White crystals, mp 95°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +16.0° (c = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED<sub>50</sub> = 0.002 $\mu$ g/mL, 0.003 $\mu$ g/mL, 0.0005 $\mu$ g/mL, 0.001 $\mu$ g/mL, 0.004 $\mu$ g/mL, 0.008 $\mu$ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



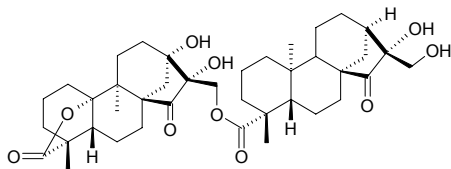
**21805 10 $\alpha$ ,13 $\alpha$ ,16 $\alpha$ -Trihydroxy-9 $\alpha$ -methyl-15-oxo-20-nor-kauran-19-oic acid  $\gamma$ -lactone-17-yl-14' $\alpha$ ,16' $\alpha$ ,17'-trihydroxy-15'-oxo-ent-kaur-11'-en-19'-oate**

C<sub>40</sub>H<sub>54</sub>O<sub>11</sub> (710.87). White amorphous solid, mp 175~180°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +28.3° (c = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED<sub>50</sub> = 0.002 $\mu$ g/mL, 0.003 $\mu$ g/mL, 0.0005 $\mu$ g/mL, 0.001 $\mu$ g/mL, 0.004 $\mu$ g/mL and 0.008 $\mu$ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



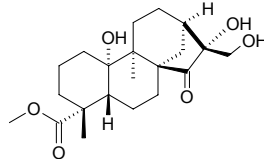
**21806 10 $\alpha$ ,13 $\alpha$ ,16 $\alpha$ -Trihydroxy-9 $\alpha$ -methyl-15-oxo-20-nor-kauran-19-oic acid  $\gamma$ -lactone-17-yl-16' $\alpha$ ,17'-dihydroxy-15'-oxo-ent-kaur-19'-oate**

C<sub>40</sub>H<sub>56</sub>O<sub>10</sub> (696.89). White crystals, mp 100~104°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +11.3° (c = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED<sub>50</sub> = 0.002 $\mu$ g/mL, 0.003 $\mu$ g/mL, 0.0005 $\mu$ g/mL, 0.001 $\mu$ g/mL, 0.004 $\mu$ g/mL, 0.008 $\mu$ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



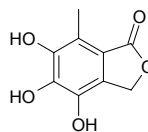
**21807 10 $\alpha$ ,16 $\alpha$ ,17-Trihydroxy-9 $\alpha$ -methyl-15-oxo-20-nor-kauran-19-oic acid methyl ester**

C<sub>21</sub>H<sub>32</sub>O<sub>6</sub> (380.49). White solid, mp 103~108°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +23.0° (c = 0.1, MeOH). **Pharm:** Cytotoxic inactive (Lu1, Col2, KB, LNCaP, hTERT-RPE1, HUVEC; control Taxol, ED<sub>50</sub> = 0.002 $\mu$ g/mL, 0.003 $\mu$ g/mL, 0.0005 $\mu$ g/mL, 0.001 $\mu$ g/mL, 0.004 $\mu$ g/mL, 0.008 $\mu$ g/mL, respectively). **Source:** *Parinari sprucei* (leaf). **Ref:** 4991.



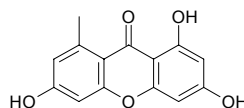
**21808 4,5,6-Trihydroxy-7-methylphthalide**

C<sub>9</sub>H<sub>8</sub>O<sub>5</sub> (196.16). White transparent crystalline solid, mp 249~250°C. **Pharm:** Antioxidant (DPPH scavenger, 25 $\mu$ g/mL, ScRt = 95%; control BHT, 25 $\mu$ g/mL, ScRt = 18.6%); antioxidant (TBARS assay, inhibits peroxidation of linolenic acid, 37mg/mL, InRt = 62%, control BHT, 37mg/mL, InRt = 73.9%). **Source:** fungus *Epicoccum* sp. **Ref:** 5445.



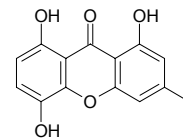
**21809 1,3,6-Trihydroxy-8-methylxanthone**

C<sub>14</sub>H<sub>10</sub>O<sub>5</sub> (258.23). Yellow powder, mp 226~228°C. **Source:** HE CAO YE JIA BEI FANG FENG *Ledebouria graminifolia* (tuber). **Ref:** 3368.



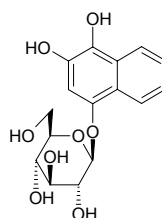
**21810 1,5,8-Trihydroxy-3-methylxanthone**

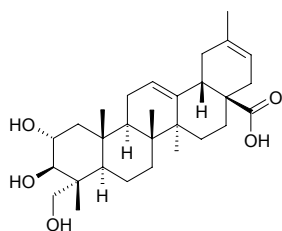
C<sub>14</sub>H<sub>10</sub>O<sub>5</sub> (258.23). Yellow needles (MeOH), mp 276.5~278°C. **Source:** RI BEN XIAO HE YI *Pyrenula japonica*. **Ref:** 2362.



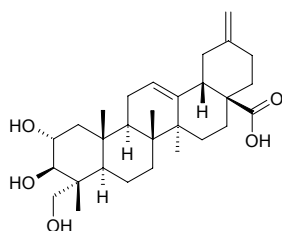
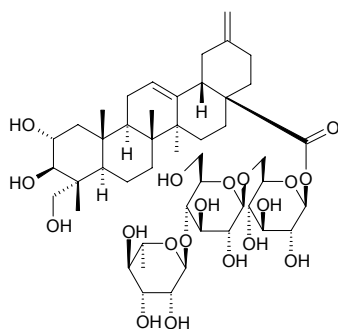
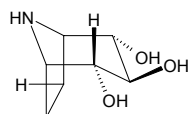
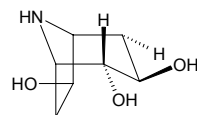
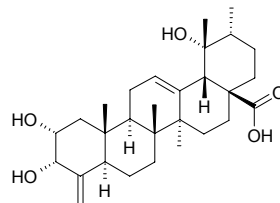
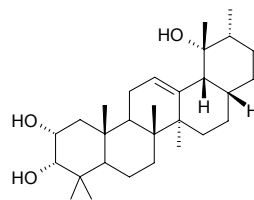
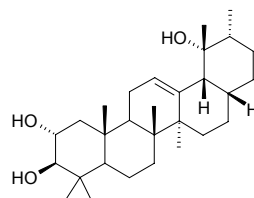
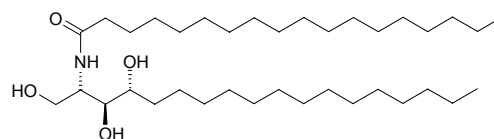
**21811 1,2,4-Trihydroxynaphthalene-4-glucoside**

C<sub>16</sub>H<sub>18</sub>O<sub>8</sub> (338.32). **Source:** FENG XIAN *Impatiens balsamina*. **Ref:** 6.

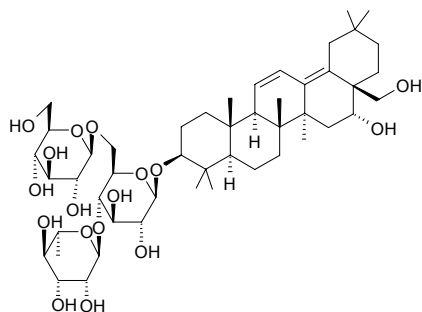


**21812 2 $\alpha$ ,3 $\beta$ ,23-Trihydroxy-30-noroleana-12,20(21)-dien-28-oic acid**C<sub>29</sub>H<sub>44</sub>O<sub>5</sub> (472.67). Amorphous solid, [ $\alpha$ ]<sub>D</sub><sup>27</sup> = +72.0° (*c* = 0.10, MeOH).Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.**21813 2 $\alpha$ ,3 $\beta$ ,23-Trihydroxy-30-noroleana-12,20(29)-dien-28-oic acid**C<sub>29</sub>H<sub>44</sub>O<sub>5</sub> (472.67). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref:

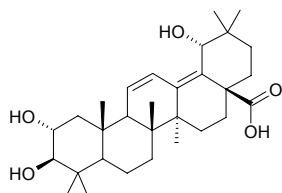
4545.

**21814 2 $\alpha$ ,3 $\beta$ ,23-Trihydroxy-30-norolean-12-en-28-oic acid *O*- $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 4)-*O*- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranosyl ester**C<sub>47</sub>H<sub>74</sub>O<sub>19</sub> (943.10). Source: SAN YE MU TONG *Akebia trifoliata* (stem).Ref: 4545.**21815 2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ -Trihydroxynortropane**C<sub>7</sub>H<sub>13</sub>NO<sub>3</sub> (159.19). Colorless powder, [ $\alpha$ ]<sub>D</sub> = 0° (*c* = 0.40, H<sub>2</sub>O). Pharm: $\alpha$ -Glucosidase inhibitor (IC<sub>50</sub> = 15mmol/L, control 1-Deoxynojirimucin, IC<sub>50</sub> = 0.98mmol/L, Fagoming, IC<sub>50</sub> = 15mmol/L). Source: SANG SHI *Morus alba*.Ref: 4161.**21816 2 $\alpha$ ,3 $\beta$ ,6-*exo*-Trihydroxynortropane**C<sub>7</sub>H<sub>13</sub>NO<sub>3</sub> (159.19). Colorless powder, [ $\alpha$ ]<sub>D</sub> = -27.3° (*c* = 0.55, H<sub>2</sub>O). Pharm: $\alpha$ -Glucosidase inhibitor (IC<sub>50</sub> = 25mmol/L, control 1-Deoxynojirimucin, IC<sub>50</sub> = 0.98mmol/L, Fagoming, IC<sub>50</sub> = 15mmol/L). Source: SANG SHI *Morus alba*.Ref: 4161.**21817 2 $\alpha$ ,3 $\alpha$ ,19 $\alpha$ -Trihydroxy-24-norurs-4(23),12-dien-28-oic acid**C<sub>29</sub>H<sub>44</sub>O<sub>5</sub> (472.67). White powder, mp 234~236°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +73.0° (*c* = 0.05,MeOH). Source: YANG TI *Rumex japonicus* (stem). Ref: 4541.**21818 2 $\alpha$ ,3 $\alpha$ ,19 $\alpha$ -Trihydroxy-28-norurs-12-ene**C<sub>29</sub>H<sub>48</sub>O<sub>3</sub> (444.70). Amorphous powder, mp [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +8° (*c* = 0.125, MeOH).Source: DONG E LUO DU WU *Ligularia tongolensis* (root). Ref: 4523.**21819 2 $\alpha$ ,3 $\beta$ ,19 $\alpha$ -Trihydroxy-28-norurs-12-ene**C<sub>29</sub>H<sub>48</sub>O<sub>3</sub> (444.70). Amorphous powder, mp [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -14° (*c* = 0.125, MeOH).Source: DONG E LUO DU WU *Ligularia tongolensis* (root). Ref: 4523.**21820 (2S,3S,4R)-N-[2-(1,3,4-Trihydroxy-octadecanyl)]-octadecamide**C<sub>36</sub>H<sub>73</sub>NO<sub>4</sub> (583.99). White amorphous powder, mp 113~115°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> =+13.2° (*c* = 0.2, pyridine). Source: *Lophytum* sp. Ref: 4885.

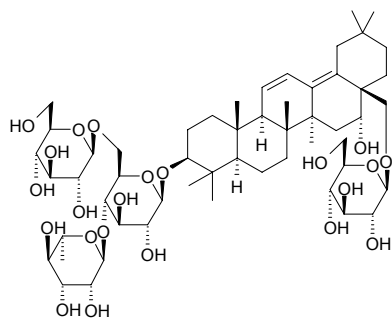
**21821** 3 $\beta$ ,16 $\alpha$ ,28-Trihydroxyolean-11,13(18)-dien-3 $\beta$ -yl- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-[ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- $\beta$ -D-glucopyranoside  
C<sub>48</sub>H<sub>78</sub>O<sub>17</sub> (927.15). Source: KUN MING CHAI HU *Bupleurum kunmingense*, DUO ZHI CHAI HU *Bupleurum polyclonum*, WEN CHUAN CHAI HU *Bupleurum wenchuanense*. Ref: 2247.



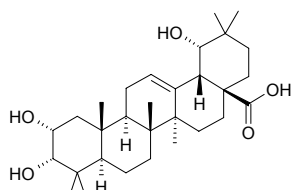
**21822** 2 $\alpha$ ,3 $\beta$ ,19 $\alpha$ -Trihydroxy-olean-11,13(18)-dien-28-oic acid  
C<sub>30</sub>H<sub>46</sub>O<sub>5</sub> (486.70). White amorphous powder. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*] (stem). Ref: 4561.



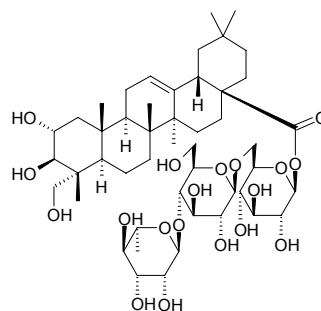
**21823** 3 $\beta$ ,16 $\alpha$ ,28-Trihydroxyolean-11,13(18)-dien-3 $\beta$ -yl- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 6)-[ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- $\beta$ -D-glucopyranoside-28-O- $\beta$ -D-glucopyranoside  
C<sub>54</sub>H<sub>88</sub>O<sub>22</sub> (1089.29). Source: KUN MING CHAI HU *Bupleurum kunmingense*, DUO ZHI CHAI HU *Bupleurum polyclonum*, WEN CHUAN CHAI HU *Bupleurum wenchuanense*. Ref: 2247.



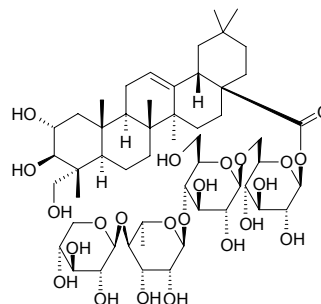
**21824** 2 $\alpha$ ,3 $\alpha$ ,19 $\alpha$ -Trihydroxy-12-oleanen-28-oic acid  
C<sub>30</sub>H<sub>48</sub>O<sub>5</sub> (488.71). White powder. Source: SAN YE MU TONG *Akebia trifoliata* (stem), TAI WAN PI PA *Eriobotrya deflexa* (leaf), WU PAO ZI *Rubus parkeri*. Ref: 2162, 3064, 4545.



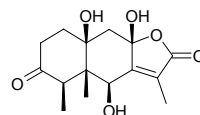
**21825** 2 $\alpha$ ,3 $\beta$ ,23-Trihydroxyolean-12-en-28-oic acid O- $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 4)-O- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranosyl ester  
C<sub>48</sub>H<sub>78</sub>O<sub>19</sub> (959.15). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.



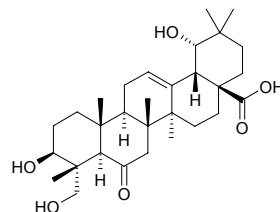
**21826** 2 $\alpha$ ,3 $\beta$ ,23-Trihydroxyolean-12-en-28-oic acid O- $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 3)-O- $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 4)-O- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranosyl ester  
C<sub>53</sub>H<sub>86</sub>O<sub>23</sub> (1091.26). Source: SAN YE MU TONG *Akebia trifoliata* (stem). Ref: 4545.



**21827** 6 $\beta$ ,8 $\beta$ ,10 $\beta$ -Trihydroxy-3-oxoeremophilenolide  
C<sub>15</sub>H<sub>20</sub>O<sub>6</sub> (296.32). Colorless gum, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +143.0° (c = 0.20, CHCl<sub>3</sub>). Source: TU ER FENG XIE JIA CAO *Cacalia ainsliaeflora*. Ref: 5428.

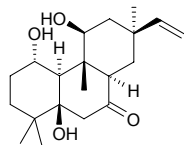


**21828** 3 $\beta$ ,19 $\alpha$ ,23-Trihydroxy-6-oxo-olean-12-en-28-oic acid  
C<sub>30</sub>H<sub>46</sub>O<sub>6</sub> (502.70). Colorless amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +17.2° (c = 0.11, MeOH). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 2581.

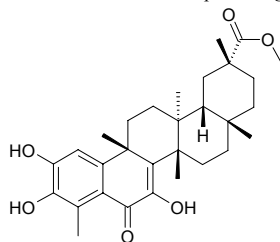


**21829 1 $\alpha$ ,5 $\beta$ ,11 $\beta$ -Trihydroxy-7-oxo-ros-15-ene**

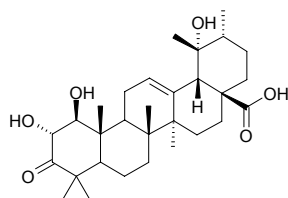
C<sub>20</sub>H<sub>32</sub>O<sub>4</sub> (336.48). [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +76° (*c* = 0.17, CHCl<sub>3</sub>). Source: *Gackstroemia decipiens*. Ref: 3907.

**21830 2,3,7-Trihydroxy-6-oxo-1,3,5(10),7-tetraene-24-nor-friedelane-29-oic acid methylester**

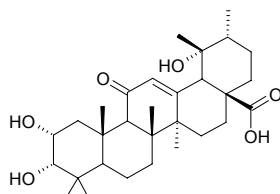
C<sub>30</sub>H<sub>40</sub>O<sub>6</sub> (496.65). Yellow powder, [ $\alpha$ ]<sub>D</sub><sup>24</sup> = -45.5° (*c* = 3.03, MeOH). Pharm: Cytotoxic (KB, IC<sub>50</sub> = (9.48±0.35)μmol/L, control Podophyllotoxin, IC<sub>50</sub> = 0.014μmol/L); antibacterial (*Bacillus cereus*, MIC = 129.03μmol/L, control Chloramphenicol, MIC = 6.19μmol/L; *Staphylococcus epidermidis*, MIC = 129.03μmol/L, Chloramphenicol, MIC = 12.38μmol/L; *Micrococcus luteus*, MIC = 32.26μmol/L, Chloramphenicol, MIC = 6.19μmol/L). Source: GAO MEI YING BAN *Crossopetalum gaumeri* (root). Ref: 3969.

**21831 1 $\beta$ ,2 $\alpha$ ,19 $\alpha$ -Trihydroxy-3-oxo-12-ursen-28-oic acid**

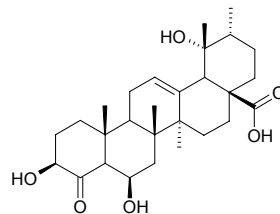
C<sub>30</sub>H<sub>46</sub>O<sub>6</sub> (502.7). White amorphous powder, mp 218–220°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +29.7° (*c* = 0.59, MeOH). Pharm: Immunosuppressant (hmn mononuclear cells antiproliferation, involving T lymphocytes, B lymphocytes, and macrophages isolated from peripheral blood, IC<sub>50</sub> = 26.9μmol/L; control Cyclosporine A, IC<sub>50</sub> = 0.012μmol/L). Source: TAI WAN PI PA *Eriobotrya deflexa* (leaf). Ref: 3064.

**21832 2 $\alpha$ ,3 $\alpha$ ,19 $\alpha$ -Trihydroxy-11-oxo-urs-12-en-28-oic acid**

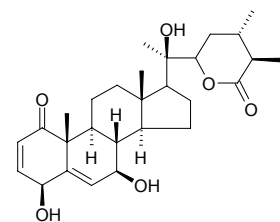
C<sub>30</sub>H<sub>46</sub>O<sub>6</sub> (502.70). White amorphous powder. Source: FEI LONG ZHANG XUE *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*] (stem). Ref: 4561.

**21833 3 $\beta$ ,6 $\beta$ ,19 $\alpha$ -Trihydroxy-23-oxo-urs-12-en-28-oic acid**

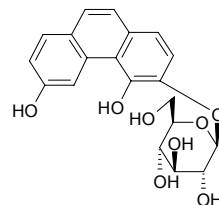
C<sub>28</sub>H<sub>42</sub>O<sub>6</sub> (474.64). Source: BI LU GOU TENG *Uncaria tomentosa*. Ref: 5341.

**21834 4 $\beta$ ,7 $\beta$ ,20R-Trihydroxy-1-oxowitha-2,5-dien-22,26-olide**

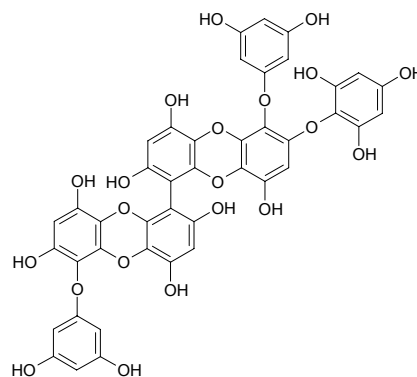
C<sub>28</sub>H<sub>40</sub>O<sub>6</sub> (472.63). White amorphous solid, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -26° (*c* = 0.082, CH<sub>3</sub>CN). Pharm: Quinone reductase inducer (mus Hepa1c1c7 cells, CD = (1.12±0.46)μmol/L, IC<sub>50</sub> = (23.9±5.2)μmol/L, CI = 21, positive control Sulforaphane, CD = (0.36±0.17)μmol/L, IC<sub>50</sub> = (9.9±2.1)μmol/L, CI = 28). Source: FEI CHENG SUAN JIANG *Physalis philadelphica* (leaf and stem). Ref: 4337.

**21835 3,4,6-Trihydroxyphenanthrene-3-O- $\beta$ -D-glucopyranoside**

C<sub>20</sub>H<sub>20</sub>O<sub>8</sub> (388.38). Amorphous solid, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -16° (*c* = 0.25, MeOH). Pharm: Antifungal inactive (hmn pathogenic yeasts *Candida albicans*, *Candida glabrata* and *Candida tropicalis*). Source: SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*]. Ref: 2576.

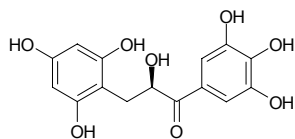
**21836 2-O-(2,4,6-Trihydroxyphenyl)-6,6'-bieckol**

2-O-Phloro-6,6'-bieckol [89079-38-9] C<sub>42</sub>H<sub>26</sub>O<sub>21</sub> (866.65). Colorless amorphous powder. Pharm: Antifibrinolysis ( $\alpha_2$ -macroglobulin *in vitro*, IC<sub>50</sub> = 1.9μg/mL,  $\alpha_2$ -fibrinolysin *in vitro*, IC<sub>50</sub> = 0.7μg/mL, fibrinolysin *in vitro*, IC<sub>50</sub> = 13μg/mL). Source: HEI KUN BU *Ecklonia kurome*. Ref: 1020.



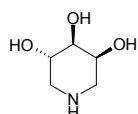
**21837 1-(3,4,5-Trihydroxyphenyl)-3-(2,4,6-trihydroxyphenyl)-2-hydroxy-1-propanone**

$C_{15}H_{14}O_8$  (322.27). Red amorphous powder,  $[\alpha]_D = +234.6^\circ$  ( $c = 0.8$ , MeOH).  
Source: XIAO GUO YE JIAO *Musa acuminata* (fruit). Ref: 3913.



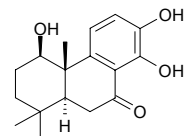
**21838 3β,4β,5α-Trihydroxypiperidine**

[130114-77-1]  $C_5H_{11}NO_3$  (133.15). Colorless oil,  $[\alpha]_D = +66.7^\circ$  ( $c = 0.3$ , methanol). Pharm:  $\alpha$ -Glucosidase inhibitor ( $IC_{50} = 1.88\mu\text{mol/L}$ );  $\beta$ -galactosidase inhibitor ( $IC_{50} = 3.76\mu\text{mol/L}$ ). Source: PEI LAN *Eupatorium fortunei*. Ref: 1192.



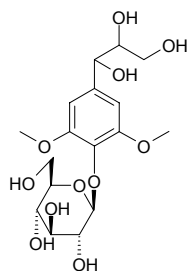
**21839 1β,13,14-Trihydroxy-8,11,13-podocarpatrien-7-one**

$C_{17}H_{22}O_4$  (290.36). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4182.



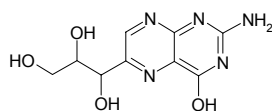
**21840 4-(1,2,3-Trihydroxypropyl)-2,6-dimethoxyphenyl-1-O-β-D-glucopyranoside**

$C_{17}H_{26}O_{11}$  (406.39). Colorless crystals (MeOH), mp 185–187°C. Source: BAN LAN GEN *Isatis indigotica*. Ref: 4599.



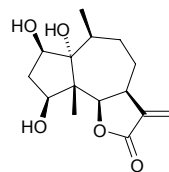
**21841 Trihydroxypropylpterisin**

$C_9H_{11}N_5O_4$  (253.22). mp 250°C (dec). Source: CHAN PI *Bufo bufo gargarizans*; *Bufo melanostictus*. Ref: 6.



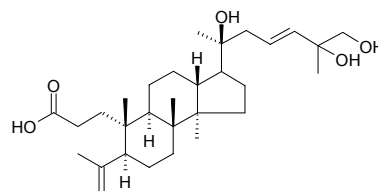
**21842 1α,2β,4β-Trihydroxypseudoguaian-6β,12-olide**

$C_{15}H_{22}O_5$  (282.34). Amorphous solid (Me<sub>2</sub>CO). Source: YIN JIAO JU *Parthenium hysterophorus* (aerial parts). Ref: 5106.



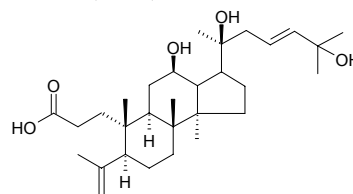
**21843 (23E,20S)-20,25,26-Trihydroxy-3,4-secodammara-4(28),23-dien-3-oic acid**

$C_{30}H_{50}O_5$  (490.73). Source: CHI YANG *Alnus japonica*. Ref: 660.



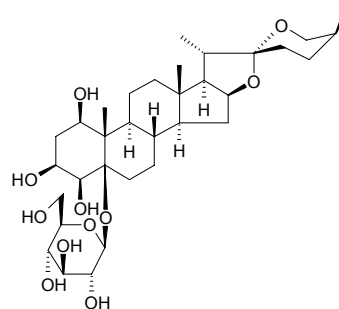
**21844 (23E,12R,20S)-12,20,25-Trihydroxy-3,4-secodammara-4(28),23-dien-3-oic acid**

$C_{30}H_{50}O_5$  (490.73). Source: CHI YANG *Alnus japonica*. Ref: 660.



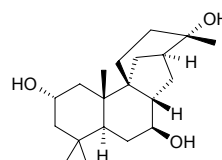
**21845 (25S)-1β,3β,4β-Trihydroxyspirostan-5β-yl-O-β-D-glucopyranoside**

Convallagenin B 5-O-β-D-glucopyranoside  $C_{33}H_{54}O_{11}$  (626.79). Pharm: Cytotoxic (MTT assay, K562,  $IC_{50} = 44.52\mu\text{mol/L}$ ; positive control *cis*-dichlorodiamine platinum,  $IC_{50} = 69.33\mu\text{mol/L}$ ). Source: WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*] (fresh rhizome). Ref: 4324.



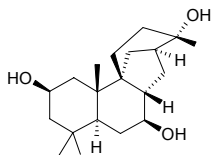
**21846 2α,7β,13(S)-Trihydroxystemodane**

$C_{30}H_{39}O_3$  (322.49). Cubes, mp 240–241°C,  $[\alpha]_D^{27} = +22.6^\circ$  ( $c = 0.44$ , MeOH). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

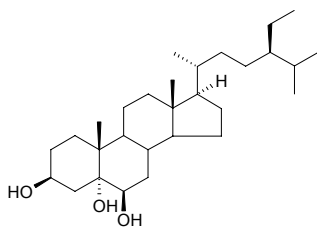


**21847 2 $\beta$ ,7 $\beta$ ,13(S)-Trihydroxystemodane**

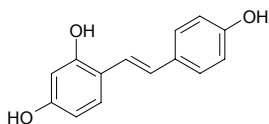
C<sub>20</sub>H<sub>34</sub>O<sub>3</sub> (322.49). Gum,  $[\alpha]_D^{27} = +24.6^\circ$  ( $c = 3.6$ , MeOH). Source: DAO GEN MEI *Rhizopus oryzae*. Ref: 3781.

**21848 3 $\beta$ ,5 $\alpha$ ,6 $\beta$ -Trihydroxystigmastane**

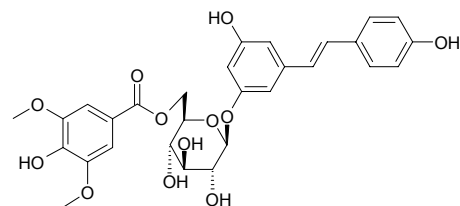
C<sub>29</sub>H<sub>52</sub>O<sub>3</sub> (448.74). Source: YU BAI SHI SONG *Lycopodium obscurum*. Ref: 660.

**21849 2,4,4'-Trihydroxystilbene**

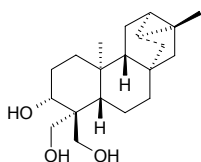
C<sub>14</sub>H<sub>12</sub>O<sub>3</sub> (228.25). Pharm: Cytotoxic (cyclooxygenase-1 inhibitor)<sup>[5038]</sup>. Source: PU<sup>(2)</sup> TAO *Vitis vinifera* (cell culture). Ref: 5038.

**21850 (E)-3,5,4'-Trihydroxystilbene 3-O- $\beta$ -D-(6-O-galloyl)glucopyranoside**

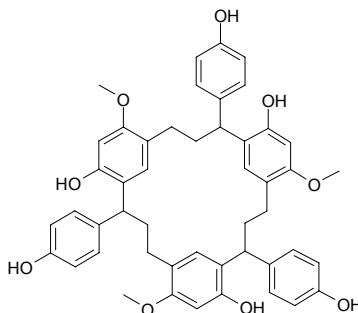
C<sub>29</sub>H<sub>30</sub>O<sub>12</sub> (570.56). Colorless needles, mp 168–169°C,  $[\alpha]_D^{27} = -60.3^\circ$  ( $c = 0.12$ , MeOH). Source: Eskemurjea megacarpum (underground part: yield = 0.0025%dw). Ref: 924.

**21851 3 $\alpha$ ,18,19-Trihydroxy trachylobane**

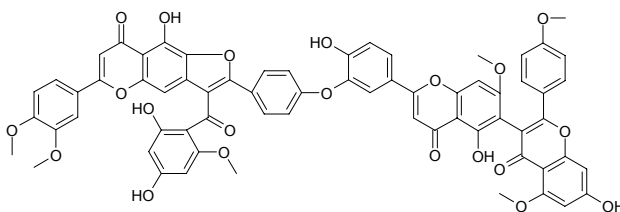
C<sub>20</sub>H<sub>32</sub>O<sub>3</sub> (320.48). mp 180–181°C,  $[\alpha]_D^{18} = -39^\circ$  ( $c = 3$ , CHCl<sub>3</sub>:MeOH = 1:1). Source: CHANG SUI BA DOU *Croton macrostachys*. Ref: 3983, 4552.

**21852 3,12,21-Trihydroxy-1,10,19-tri(4-hydroxyphenyl)-5,14,23-trimethoxy[3.3.3]metacyclopentane**

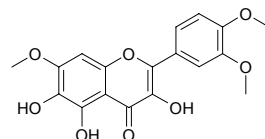
C<sub>48</sub>H<sub>48</sub>O<sub>9</sub> (768.91). Pinkish amorphous powder, mp 293°C. Source: ZHU HONG LONG XUE SHU *Dracaena cinnabari*. Ref: 1941.

**21853 (4''',5''',7'-Trihydroxy-4',5,7''-trimethoxy-3,6''-bi-flavone)-3'''-O-4'''-(5,5'',7''-trihydroxy-3',3'',4'-trimethoxy-6-O- $\beta$ -7- $\alpha$ -flavone-chalcone)**

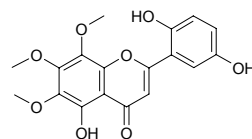
C<sub>66</sub>H<sub>46</sub>O<sub>21</sub> (1175.09). Yellow solid, mp 243–246°C (Me<sub>2</sub>CO). Source: *Aristolochia ridicula* (stem). Ref: 5111.

**21854 3,5,6-Trihydroxy-7,3',4'-trimethoxyflavone**

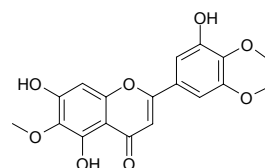
C<sub>18</sub>H<sub>16</sub>O<sub>8</sub> (360.32). Orange crystals, mp 272°C (dec), soluble in acetone and methanol, hardly soluble in chloroform and water. Source: FO SHOU *Citrus medica* var. *sarcodactylis*. Ref: 31.

**21855 5,2',5'-Trihydroxy-6,7,8-trimethoxyflavone**

C<sub>18</sub>H<sub>16</sub>O<sub>8</sub> (360.32). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 2.

**21856 5,7,3'-Trihydroxy-6,4',5'-trimethoxyflavone**

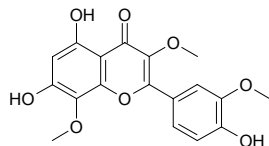
C<sub>18</sub>H<sub>16</sub>O<sub>8</sub> (360.32). Pale yellow powder, mp 252–256°C. Pharm: PFTase inhibitor (100 $\mu$ g/mL, InRt = 65%); cytotoxic inactive (hmn breast cancer lines: MDA-MB-231, MCF7, T47D, 20 $\mu$ g/mL); angiogenesis inhibitor inactive (chicken embryo chorioallantoic membrane (CAM) assay, 10 $\mu$ g). Source: AI YE *Artemisia argyi*. Ref: 5378.



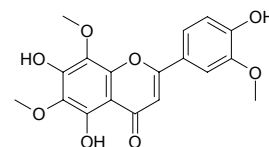
**21857 5,7,4'-Trihydroxy-3,8,3'-trimethoxyflavone**

$C_{18}H_{16}O_8$  (360.32). **Pharm:** Antioxidant inactive (Takamatsu DCFH method, myelomonocytic HL-60 cells, control NDGA,  $IC_{50} = (0.7 \pm 0.3) \mu\text{g/mL}$ , Vitamin C,  $IC_{50} = (1.9 \pm 0.7) \mu\text{g/mL}$ , Trolox,  $IC_{50} = (1.4 \pm 0.5) \mu\text{g/mL}$ )<sup>[3850]</sup>; cytotoxic (XTT assay, HL-60 cells,  $IC_{50} > 50.0 \mu\text{g/mL}$ ; control NDGA,  $IC_{50} = (2.6 \pm 0.2) \mu\text{g/mL}$ , Vitamin C,  $IC_{50} > 10.0 \mu\text{g/mL}$ , Trolox,  $IC_{50} > 10.0 \mu\text{g/mL}$ )<sup>[3850]</sup>.

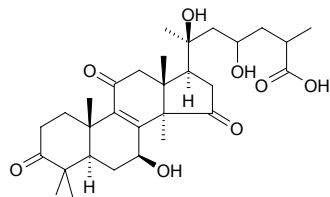
**Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf), *Cyanostegia angustifolia* (leaf), *Geraea canescens*, *Gutierrezia* spp. **Ref:** 1521, 3850.

**21858 5,7,4'-Trihydroxy-6,8,3'-trimethoxy flavone**

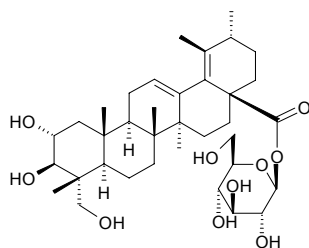
Sudachiflavone  $C_{18}H_{16}O_8$  (360.32). **Source:** JU PI *Citrus reticulata*. **Ref:** 660.

**21859 7β,20,23ξ-Trihydroxy-3,11,15-trioxolanosta-8-en-26-oic acid**

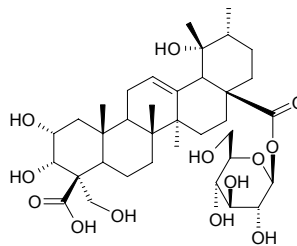
$C_{30}H_{44}O_8$  (532.68). Colorless amorphous solid,  $[\alpha]_D^{26} = +225.5^\circ$  ( $c = 0.216$ ,  $\text{CHCl}_3$ ). **Source:** SHU SHE *Ganoderma applanatum* (sporocarp; yield = 0.0071%). **Ref:** 4756.

**21860 2α,3β,24-Trihydroxyurs-12,18-dien-28-oic acid 28-O-β-D-glucopyranosyl ester**

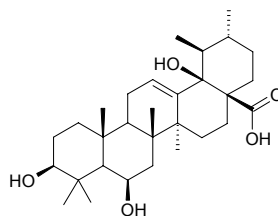
$C_{36}H_{56}O_{10}$  (648.84). White powder,  $[\alpha]_D^{25} = +77.4^\circ$  ( $c = 0.19$ , MeOH). **Source:** GANG MAO TENG SHAN LIU *Clematoclethra scanden*. **Ref:** 2133.

**21861 2α,3α,23-Trihydroxyurs-12-en-24,28-dioic acid 28-β-D-glucopyranosylester**

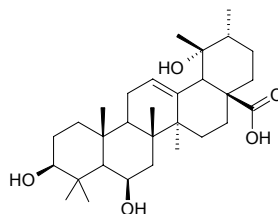
$C_{36}H_{56}O_{13}$  (696.84). White amorphous powder,  $[\alpha]_D^{23} = +34.1^\circ$  ( $c = 2.7$ , MeOH). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 5304.

**21862 3β,6β,18β-Trihydroxyurs-12-en-28-oic acid**

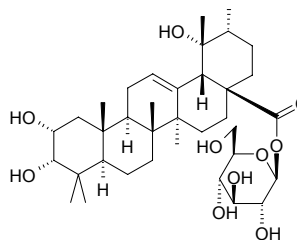
$C_{30}H_{48}O_5$  (488.71). **Pharm:** Anti-inflammatory; antiviral. **Source:** TUO YUAN GOU TENG *Uncaria elliptica*, *Uncaria thwaitesii*. **Ref:** 5341.

**21863 3β,6β,19α-Trihydroxyurs-12-en-28-oic acid**

$C_{30}H_{48}O_5$  (488.71). **Source:** BI LU GOU TENG *Uncaria tomentosa*, MIAN MAO GOU TENG *Uncaria lanosa*, TUO YUAN GOU TENG *Uncaria elliptica*. **Ref:** 5341.

**21864 2α,3α,19α-Trihydroxyurs-12-en-28-oic acid 28-β-D-glucopyranosyl ester**

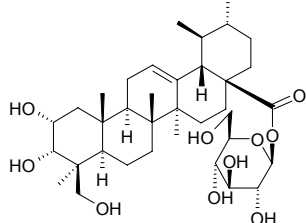
Kajjichigoside F1  $C_{36}H_{58}O_{10}$  (650.86). White needles (MeOH), mp 231–233°C. **Pharm:** Cytotoxic inactive (HSC-2,  $IC_{50} > 200 \mu\text{g/mL}$ ; HGF,  $IC_{50} > 200 \mu\text{g/mL}$ )<sup>[5160]</sup>. **Source:** DI YU *Sanguisorba officinalis*, GUANG LIANG YANG TONG *Adinandra nitida*. **Ref:** 5160, 2518.



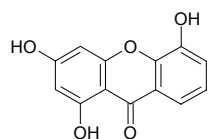


**21865 2 $\alpha$ ,3 $\alpha$ ,24-Trihydroxyurs-12-en-28-oic acid-28-O- $\beta$ -D-glucopyranosyl ester**

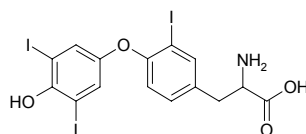
$C_{36}H_{58}O_{10}$  (650.86). White amorphous powder,  $[\alpha]_D^{20} = -25^\circ$  ( $c = 0.08$ , MeOH). Source: YE SHENG SHAN YING TAO *Prunus serrulata* var. *spontanea* (leaf). Ref: 4263.

**21866 1,3,5-Trihydroxyxanthone**

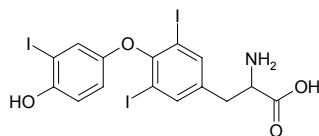
$C_{13}H_8O_5$  (244.21). Pharm: Antibacterial (*Mycobacterium tuberculosis*). Source: *Allanblackia floribunda*. Ref: 658.

**21867 3,3',5'-Triiodothyronine**

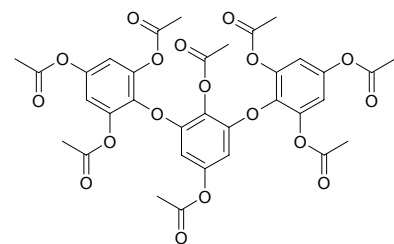
$C_{15}H_{12}I_3NO_4$  (650.98). Source: NIU YE *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**21868 3,5,3'-Triiodothyronine**

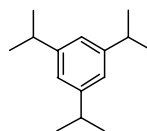
[6893-02-3]  $C_{15}H_{12}I_3NO_4$  (650.98). mp 236–237°C (dec). Source: NIU YE *Bos taurus domesticus*; *Bubalus bubalis*. Ref: 6.

**21869 Triisofuhalol octaacetate**

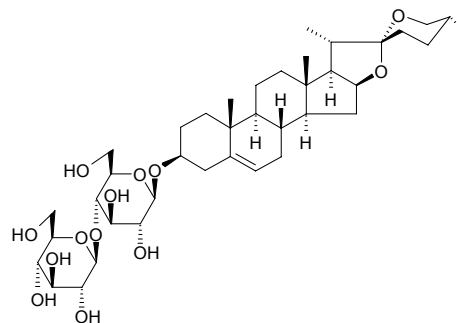
$C_{34}H_{30}O_{18}$  (726.61). Source: SHENG ZAO *Chorda filum*. Ref: 660.

**21870 1,3,5-Triisopropylphene**

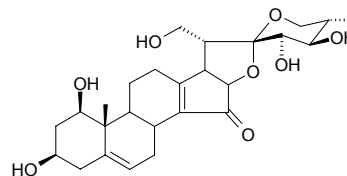
[717-74-8]  $C_{15}H_{24}$  (204.36). Source: XI YANG SHEN *Panax quinquefolium*. Ref: 2.

**21871 Trillarlin**

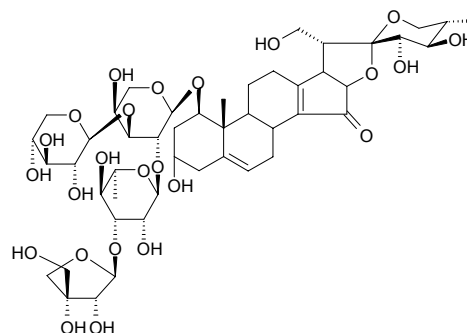
[55639-73-1]  $C_{39}H_{62}O_{13}$  (738.92). mp 197–200°C. Source: HE HUA YAN LING CAO *Trillium erectum*, YAN LING CAO *Trillium tschonoskii*. Ref: 6, 660, 1521.

**21872 Trillenogenin**

$C_{26}H_{36}O_8$  (476.57). Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part). Ref: 4403.

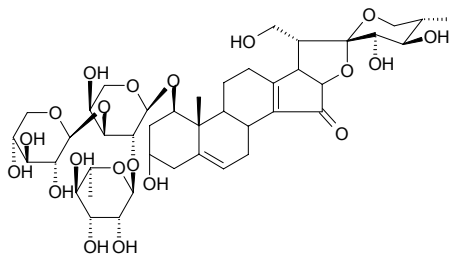
**21873 Trillenoside A**

$C_{47}H_{70}O_{24}$  (1019.07). Amorphous powder,  $[\alpha]_D^9 = -92.0^\circ$  ( $c = 2.7$ , MeOH). Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part). Ref: 4403.

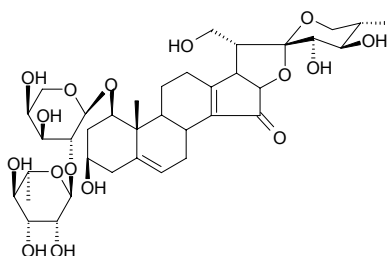


**21874 Trillenoside B**

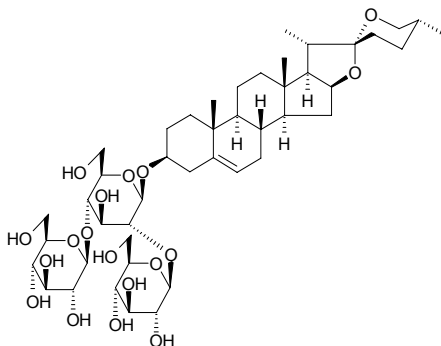
$C_{42}H_{62}O_{20}$  (886.95). Amorphous powder,  $[\alpha]_D^{20} = -132.0^\circ$  ( $c = 0.8$ , MeOH).  
 Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part).  
 Ref: 4403.

**21875 Trillenoside C**

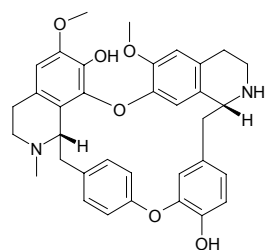
$C_{37}H_{54}O_{16}$  (754.83). Source: JI LIN YAN LING CAO *Trillium kamschaticum* (underground part). Ref: 4403.

**21876 Trilloside B**

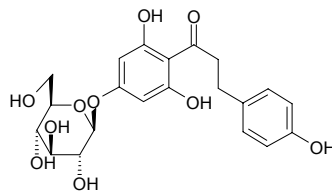
$C_{45}H_{72}O_{18}$  (901.06). Source: YU ER QI *Trillium kamschaticum*. Ref: 6.

**21877 Trilobamine**

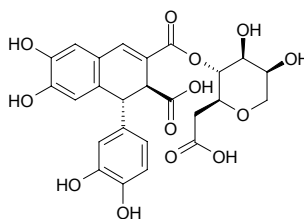
$C_{35}H_{36}N_2O_6$  (580.69). Crystals (chloroform), mp 194~196°C,  $[\alpha]_D^{20} = +459^\circ$  ( $c = 0.3$ , chloroform). Pharm: CNS depressant; paralyzes respiration; vasodilator.  
 Source: MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. Ref: 6, 658, 660.

**21878 Trilobatin**

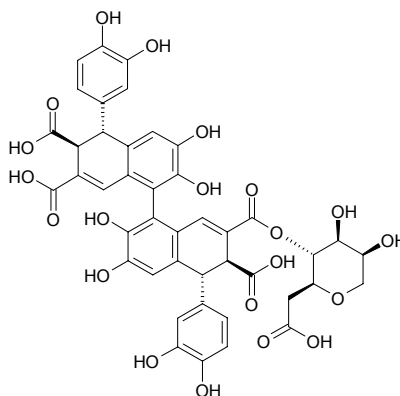
$C_{21}H_{24}O_{10}$  (436.42). Source: DUO SUI SHI KE YE *Lithocarpus polystachyus*.  
 Ref: 660.

**21879 Trilobatin D**

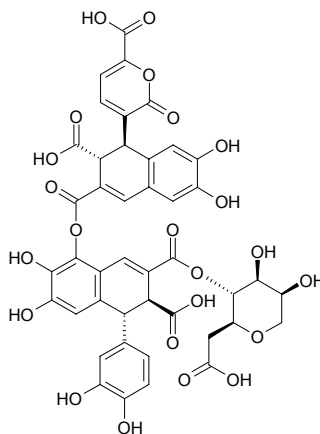
$C_{25}H_{24}O_{13}$  (532.46).  $[\alpha]_D^{20} = -146.7^\circ$  ( $c = 0.23$ , MeOH). Source: BIAN TAI *Bazzania trilobata*. Ref: 3366.

**21880 Trilobatin E**

$C_{43}H_{36}O_{21}$  (888.75). Source: BIAN TAI *Bazzania trilobata*. Ref: 3366.

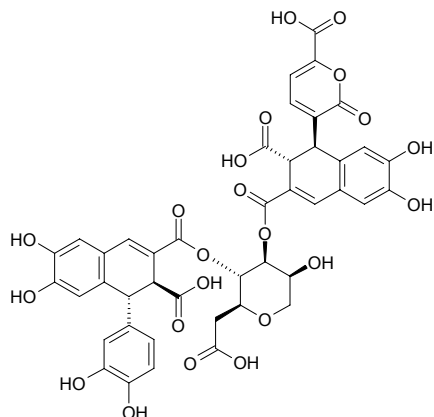
**21881 Trilobatin F**

$C_{43}H_{34}O_{23}$  (918.74).  $[\alpha]_D^{20} = -75.3^\circ$  ( $c = 0.27$ , MeOH). Source: BIAN TAI *Bazzania trilobata*. Ref: 3366.

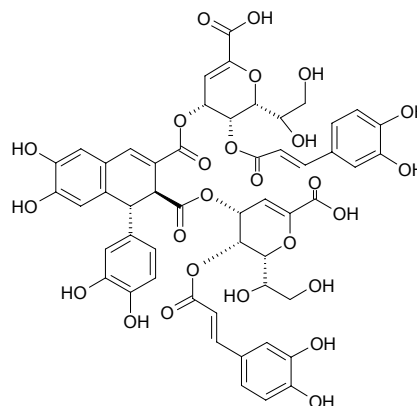


**21882 Trilobatin G**

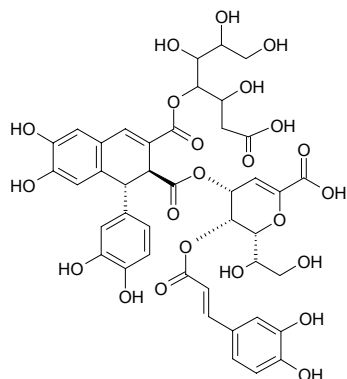
$C_{43}H_{34}O_{22}$  (902.74).  $[\alpha]_D^{20} = -20.0^\circ$  ( $c = 0.11$ , MeOH). Source: BIAN TAI  
*Bazzania trilobata*. Ref: 3366.

**21885 Trilobatin J**

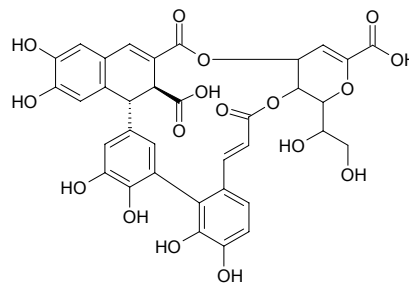
$C_{52}H_{46}O_{26}$  (1086.93).  $[\alpha]_D^{20} = -164.6^\circ$  ( $c = 0.33$ , MeOH). Source: BIAN TAI  
*Bazzania trilobata*. Ref: 3366.

**21883 Trilobatin H**

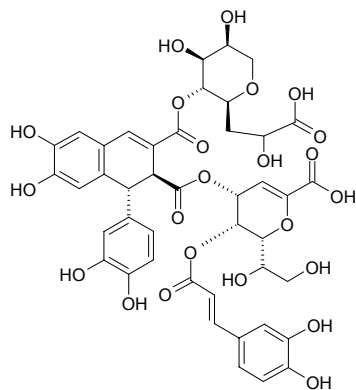
$C_{42}H_{42}O_{23}$  (914.79).  $[\alpha]_D^{20} = -164.6^\circ$  ( $c = 0.33$ , MeOH). Source: BIAN TAI  
*Bazzania trilobata*. Ref: 3366.

**21886 Trilobatin K**

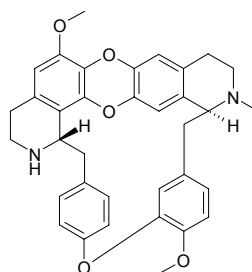
$C_{35}H_{28}O_{17}$  (720.60).  $[\alpha]_D^{20} = -12.3^\circ$  ( $c = 0.23$ , MeOH). Source: BIAN TAI  
*Bazzania trilobata*. Ref: 3366.

**21884 Trilobatin I**

$C_{43}H_{42}O_{23}$  (926.80).  $[\alpha]_D^{20} = -84.0^\circ$  ( $c = 0.07$ , MeOH). Source: BIAN TAI  
*Bazzania trilobata*. Ref: 3366.

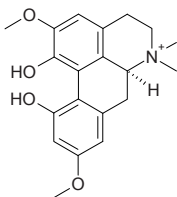
**21887 Trilobine**

[6138-73-4]  $C_{35}H_{34}N_2O_5$  (562.67). mp 237°C. Pharm: Analgesic (rbt); anti-inflammatory; antipyretic (rbt); cytotoxic (HeLa-S3 cells); CNS depressant; platelet aggregation inhibitor (rat, induced by ADP, *in vitro* and *in vivo*); antihypertensive; muscle relaxant; paralyzes cardiac and skeletal muscle (frog); used in treatment of hypertension and rheumatalgia; MLD (rbt, iv) = 50mg/kg, (rbt, sc) = 150mg/kg, (frog, sc) = 500-100mg/kg, (mus, sc) = 500-100mg/kg. Source: BAI YAO ZI *Stephania cepharantha*, HENG ZHOU WU YAO *Cocculus laurifolius*, MU FANG JI *Cocculus trilobus* [Syn. *Cocculus sarmentosus*]. Ref: 4, 658, 660.

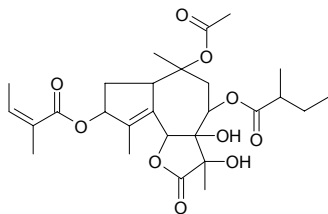


**21888 Trilobinine**

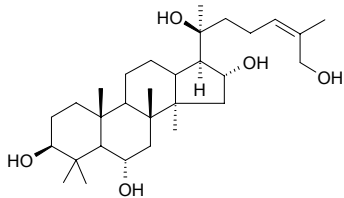
$C_{20}H_{24}NO_4^+$  (342.42). Source: JIAN YE TANG SONG CAO *Thalictrum acutifolium*. Ref: 660.

**21889 Trilobolide**

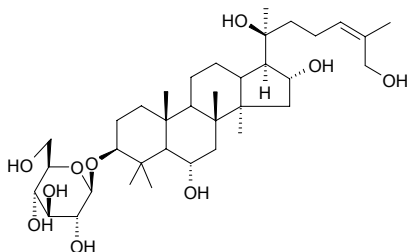
Silerin [50657-07-3]  $C_{27}H_{38}O_{10}$  (522.60). mp 191~192°C. Pharm: Antineoplastic; cytotoxic; insect antifeedant. Source: *Siler trilobum*. Ref: 5, 658, 1521.

**21890 Trilocularol A**

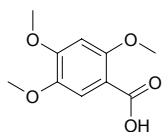
3 $\beta$ ,6 $\alpha$ ,16 $\alpha$ ,20(S),27-Pentahydroxydammar-24(Z)-ene  $C_{30}H_{52}O_5$  (492.75). Amorphous solid, mp 90~92°C (dec),  $[\alpha]_D^{25} = +17.39^\circ$  ( $c = 0.138$ , MeOH). Source: SAN SHI HUANG MA *Corchorus trilocularis*. Ref: 4356.

**21891 Trilocularol A 3-glucoside**

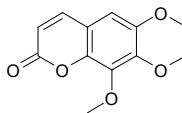
3 $\beta$ -D-Glucopyranosyloxy-6 $\alpha$ ,16 $\alpha$ ,20(S),27-tetrahydroxydammar-24(Z)-ene  $C_{36}H_{62}O_{10}$  (654.89). Gummy material,  $[\alpha]_D^{25} = +10.0^\circ$  ( $c = 0.15$ , MeOH). Source: SAN SHI HUANG MA *Corchorus trilocularis*. Ref: 4356.

**21892 2,4,5-Trimethoxybenzoic acid**

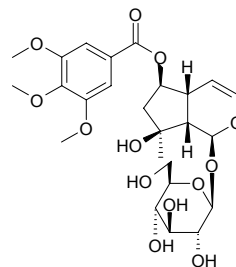
$C_{10}H_{12}O_5$  (212.20). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf; yield = 0.0014%dw). Ref: 4614.

**21893 6,7,8-Trimethoxy-2H-1-benzopyran-2-one**

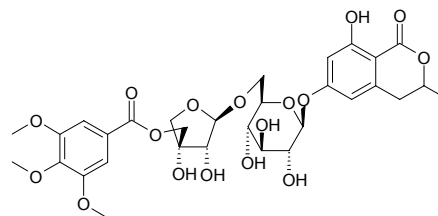
[6035-49-0]  $C_{12}H_{12}O_5$  (236.23). Pharm:  $\alpha$ -Glucosidase inhibitor inactive (type VI, control 1-Deoxynojirimycin,  $IC_{50} = 0.3\text{mmol/L}$ ); thrombin inhibitor inactive;  $\beta$ -glucuronidase inhibitor inactive. Source: YUN NAN TU SI ZI *Cuscuta reflexa*. Ref: 4155.

**21894 6-O-(3,4,5-Trimethoxybenzoyl)-ajugol**

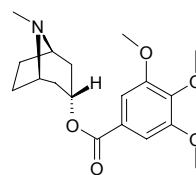
$C_{25}H_{34}O_{13}$  (542.54). Amorphous powder,  $[\alpha]_D^{22} = -130^\circ$  ( $c = 2.65$ , MeOH). Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). Ref: 3817.

**21895  $\beta$ -D-[5-O-(3,4,5-Trimethoxybenzoyl)]-apiofuranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranosyl**

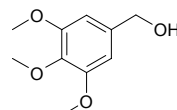
$C_{31}H_{38}O_{17}$  (682.64). Amorphous powder,  $[\alpha]_D^{24} = -95^\circ$  ( $c = 0.40$ , MeOH). Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). Ref: 3817.

**21896 3 $\alpha$ -(3',4',5'-Trimethoxybenzoyloxy)tropane**

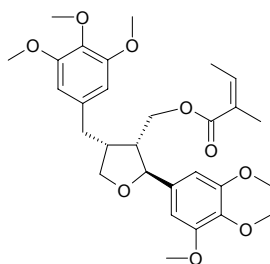
$C_{18}H_{25}NO_5$  (335.40). Colorless semisolid. Source: XI LAN GU KE *Erythroxylum zeylanicum* (root). Ref: 3919.

**21897 3,4,5-Trimethoxy-benzyl alcohol**

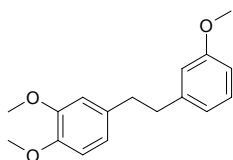
$C_{10}H_{14}O_4$  (198.22). Source: MAO GUO QI *Acer nikoense* (stem cortex). Ref: 4304.



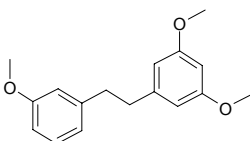
**21898** [(2*S*,3*R*,4*R*)-4-(3,4,5-Trimethoxybenzyl)-2-(3,4,5-trimethoxyphenyl)-tetrahydrofuran-3-yl]-methyl (2*Z*)-2-methylbut-2-en-oate  
 $C_{29}H_{38}O_9$  (530.62). Colorless gum,  $[\alpha]_D^{20} = +21.37^\circ$ , ( $c = 0.496$ , MeOH).  
 Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 5037.



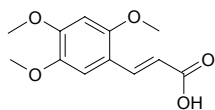
**21899** 3,4,3'-Trimethoxybibenzil  
 $C_{17}H_{20}O_3$  (272.35). Colorless oil. Source: BA XI ER YE TAI *Frullania brasiliensis*. Ref: 1981.



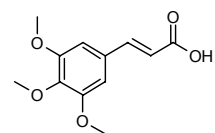
**21900** 3,5,3'-Trimethoxybibenzil  
 $C_{17}H_{20}O_3$  (272.35). Source: BAI JI *Bletilla striata*. Ref: 660.



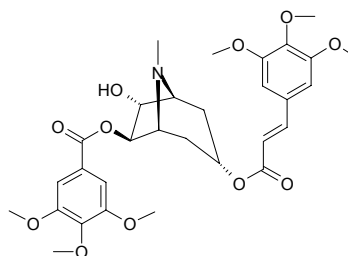
**21901** 2,4,5-Trimethoxycinnamic acid  
 $C_{12}H_{14}O_5$  (238.24). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf; yield = 0.00024%dw). Ref: 4614.



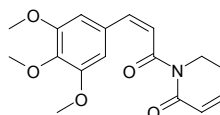
**21902** 3,4,5-Trimethoxy cinnamic acid  
 [90-50-6]  $C_{12}H_{14}O_5$  (238.24). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 2.



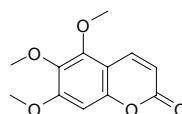
**21903** 3 $\alpha$ -(3,4,5-Trimethoxy-cinnamoyloxy)-7 $\beta$ -(3,4,5-trimethoxybenzoyloxy)-6 $\alpha$ -hydroxy-tropane  
 $C_{30}H_{37}NO_{11}$  (587.63). mp 176°C,  $[\alpha]_D^{25} = -20.8^\circ$  ( $c = 0.1$ , EtOH). Source: YUAN XING YE GU KE *Erythroxylon rotundifolium* (leaf and stem cortex). Ref: 3999.



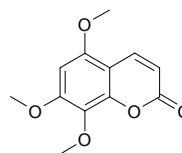
**21904** 8(*Z*)-*N*-(12,13,14-Trimethoxycinnamoyl)-*D*<sup>3</sup>-pyridin-2-one  
 $C_{17}H_{19}NO_5$  (317.34). Amorphous solid. Pharm: Antifungal (*Cladosporium sphaerospermum*, MIA = 5.0 $\mu$ g, control Nystatin, MIA = 0.5 $\mu$ g). Source: LIU TU HU JIAO *Piper tuberculatum* (seed). Ref: 5102.



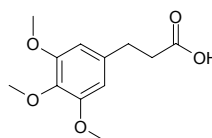
**21905** 5,6,7-Trimethoxycoumarin  
 $C_{12}H_{12}O_5$  (236.23). Pharm: Tyrosinase inhibitor ( $IC_{50} = (8.65 \pm 0.95) \mu\text{mol/L}$ , control Kojic acid,  $IC_{50} = (16.67 \pm 0.52) \mu\text{mol/L}$ , *L*-Mimosine  $IC_{50} = (3.68 \pm 0.02) \mu\text{mol/L}$ )<sup>[2544]</sup>; antimalarial. Source: SHEN YE TIAN ZHU KUI *Pelargonium reniforme*, TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*], A FU HAN DU JUAN HUA *Rhododendron collettianum*. Ref: 658, 2544.



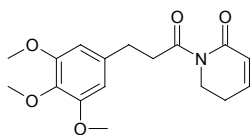
**21906** 5,7,8-Trimethoxycoumarin  
 $C_{12}H_{12}O_5$  (236.23). mp 179–180°C. Source: YAN JIAO CAO *Boenninghausenia albiflora*. Ref: 2495.



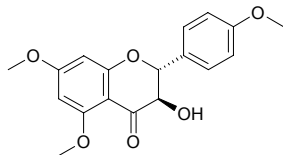
**21907** 3,4,5-Trimethoxydihydrocinnamic acid  
 $C_{12}H_{16}O_5$  (240.26). Source: CHANG GUO BI BA *Piper retrofractum*. Ref: 660.



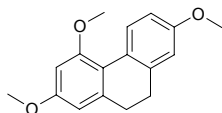
**21908** *N*-(12,13,14-Trimethoxydihydrocinnamoyl)-*A*<sup>3</sup>-pyridin-2-one  
 C<sub>17</sub>H<sub>21</sub>NO<sub>5</sub> (319.36). **Pharm:** Antifungal (*Cladosporium sphaerospermum*,  
 MIA = 0.1μg, control Nystatin, MIA = 0.5μg). **Source:** LIU TU HU JIAO  
*Piper tuberculatum* (seed). **Ref:** 5102.



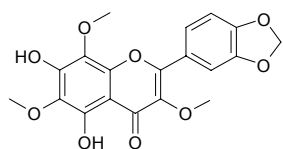
**21909** (2*R*,3*R*)-(+)-4',5,7-Trimethoxydihydroflavonol  
 C<sub>18</sub>H<sub>18</sub>O<sub>6</sub> (330.34). Colorless powder (EtOAc), [α]<sub>D</sub><sup>24</sup> = 30° (c = 0.2, MeOH).  
**Source:** HOU PI SHU *Lansea grandis* [Syn. *Lansea coromandelica*]. **Ref:** 739.



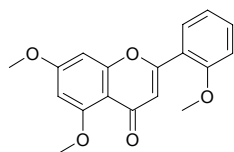
**21910** 2,4,7-Trimethoxy-9,10-dihydrophenanthrene  
 C<sub>17</sub>H<sub>18</sub>O<sub>3</sub> (270.33). **Source:** BAI JI *Bletilla striata*. **Ref:** 660.



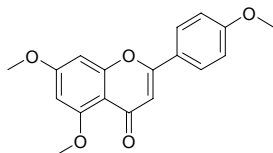
**21911** 3,6,8-Trimethoxy-5,7-dihydroxy-3',4'-methylenedioxyflavone  
 C<sub>19</sub>H<sub>16</sub>O<sub>9</sub> (388.33). Yellow crystals. **Source:** RU NI WENG DAO MI ZHU  
 YU *Melicope coodeana*. **Ref:** 1975.



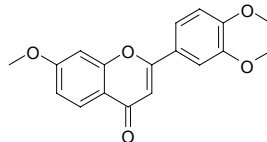
**21912** 5,7,2'-Trimethoxyflavone  
 C<sub>18</sub>H<sub>16</sub>O<sub>5</sub> (312.33). Colorless needles (CHCl<sub>3</sub>), mp 177~178°C. **Source:** NAN  
 YIN DU CHUAN XIN LIAN *Andrographis viscosula*. **Ref:** 1936.



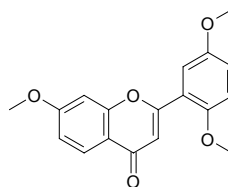
**21913** 5,7,4'-Trimethoxyflavone  
 5,7,4'-Trimethoxyapigenin; Apigenin trimethyl ether [5631-70-9] C<sub>18</sub>H<sub>16</sub>O<sub>5</sub>  
 (312.32). Colorless rhombic crystals (methanol), mp 158.5~159.5°C. **Pharm:**  
 Induces cell differentiation (mus myelocytic leukemia cells, 50μmol/L,  
 growing rate =35%, 5μmol/L, growing rate =85%); inhibits activity of EBV  
 early antigen EBV-EA induced by TPA; AMV-reverse transcriptase inhibitor  
 (1.0mmol/L, InRt = 45.6%). **Source:** HUA ZHOU YOU *Citrus grandis* var.  
*tomentosa*, JU PI *Citrus reticulata*, TIAN CHENG *Citrus sinensis*, YOU<sup>(4)</sup>  
*Citrus grandis*, ZHI SHI *Citrus aurantium*. **Ref:** 660, 900.



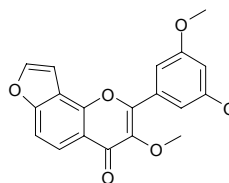
**21914** 7,2',4'-Trimethoxyflavone  
 C<sub>18</sub>H<sub>16</sub>O<sub>5</sub> (312.33). Yellow amorphous powder, mp 128~130°C (MeOH).  
**Source:** XIANG HE HUAN *Albizzia odoratissima* (root cortex). **Ref:** 4229.



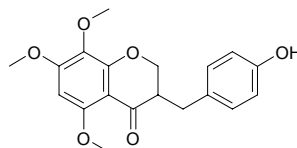
**21915** 7,2',5'-Trimethoxyflavone  
 C<sub>18</sub>H<sub>16</sub>O<sub>5</sub> (312.33). Yellow amorphous solid (MeOH), mp 136~138°C. **Source:**  
 NAN YIN DU CHUAN XIN LIAN *Andrographis viscosula* (whole herb). **Ref:**  
 4406.



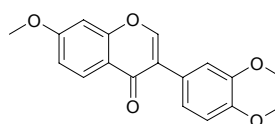
**21916** 3,3',5'-Trimethoxy furo[8,7:4'',5'']flavone  
 C<sub>20</sub>H<sub>16</sub>O<sub>6</sub> (352.35). White crystals (MeOH), mp 184°C. **Source:** SHUI LIU  
 DOU *Pongamia pinnata* (fruit). **Ref:** 3767.



**21917** 5,7,8-Trimethoxy-3-(4'-hydroxybenzyl)-4-chromanone  
 C<sub>19</sub>H<sub>20</sub>O<sub>6</sub> (344.37). Yellow gum. **Source:** HE CAO YE JIA BEI FANG FENG  
*Ledebouria graminifolia* (tuber). **Ref:** 3368.

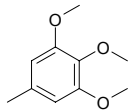


**21918** 7,3',4'-Trimethoxyisoflavone  
 Anticancer Flavonoid PMV70P691-115 C<sub>18</sub>H<sub>16</sub>O<sub>5</sub> (312.33). **Pharm:**  
 Hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced  
 by *D*-galactosamine (GalN), 100μmol/L, InRt = (6.6±0.8)%, inactive, control  
 Silybin, 100μmol/L, InRt = (77.0±5.5)%<sup>[4095]</sup>; cytotoxic (quinone reductase  
 induction assay in cultured Hepa1c1c7 mouse hepatoma cells)<sup>[5038]</sup>. **Source:**  
 GUANG BU DING GONG TENG *Erycibe expansa*, YA MAI JIA YING TAO  
*Muntingia calabura*. **Ref:** 4095, 5038.

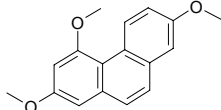


**21919 1,2,3-Trimethoxy-5-methyl benzene**

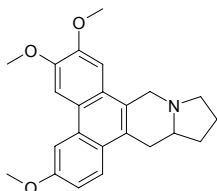
3,4,5-Trimethoxytoluene [6443-69-2] C<sub>10</sub>H<sub>14</sub>O<sub>3</sub> (182.22). Source: HONG HUA *Carthamus tinctorius*, XI XIN *Asarum sieboldii*. Ref: 2, 660.

**21920 2,4,7-Trimethoxyphenanthrene**

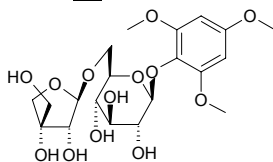
C<sub>17</sub>H<sub>16</sub>O<sub>3</sub> (268.32). Source: BAI JI *Bletilla striata*. Ref: 660.

**21921 3,6,7-Trimethoxyphenanthroindolizidine**

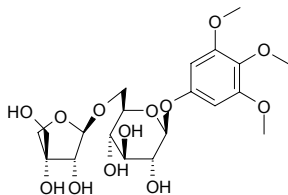
C<sub>23</sub>H<sub>25</sub>NO<sub>3</sub> (363.46). Source: DUI YE RONG *Ficus hispida*. Ref: 660.

**21922 2,4,6-Trimethoxyphenyl 1-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

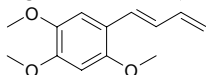
C<sub>20</sub>H<sub>30</sub>O<sub>13</sub> (478.45). Yellow powder. Source: XI YE SHUI TUAN HUA *Adina rubella*. Ref: 797.

**21923 3,4,5-Trimethoxyphenyl 1-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside**

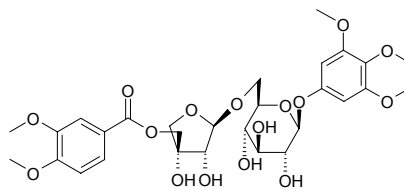
Kelampayoside A C<sub>20</sub>H<sub>30</sub>O<sub>13</sub> (478.45). Amorphous powder, [α]<sub>D</sub><sup>19</sup> = -137.5° (c = 0.6, MeOH); [α]<sub>D</sub><sup>25</sup> = +27.5° (c = 0.52, MeOH). Source: DONG FANG WU TAN *Nauclea orientalis* (bark)<sup>[3074]</sup>, MAO GUO QI *Acer nikoense* (stem cortex), ROU GUI *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*], SHAN FAN GEN *Symplocos caudata*, TAI GUO BA JI *Morinda coreia*. Ref: 660, 2002, 2535, 3074, 4304.

**21924 4-(2,4,5-Trimethoxyphenyl)-but-1,3-diene**

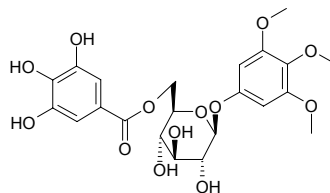
C<sub>13</sub>H<sub>16</sub>O<sub>3</sub> (220.27). Pharm: Cytotoxic (A549, Col2, SNU638, HT1080, all IC<sub>50</sub> > 50 μmol/L, control Ellipticine, IC<sub>50</sub> = 0.8~1.6 μmol/L)<sup>[4081]</sup>; COX-2 inhibitor (RAW264.7 cells, LPS-induced PGE<sub>2</sub> production, IC<sub>50</sub> = 14.97 μmol/L, control Celecoxib, IC<sub>50</sub> = 0.52 nmol/L)<sup>[4532]</sup>. Source: YE JIANG *Zingiber cassumunar* (rhizome). Ref: 4081, 4532.

**21925 3,4,5-Trimethoxyphenyl 1-O-β-D-[5-O-(3,4-dimethoxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside**

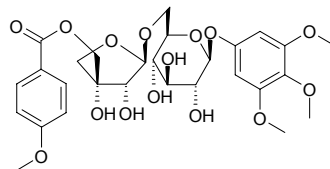
C<sub>29</sub>H<sub>38</sub>O<sub>16</sub> (642.62). Amorphous powder, [α]<sub>D</sub><sup>22</sup> = -78° (c = 0.76, MeOH). Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark). Ref: 3817.

**21926 3,4,5-Trimethoxyphenyl (6'-O-galloyl)-β-D-glucopyranoside**

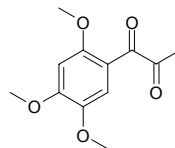
C<sub>22</sub>H<sub>26</sub>O<sub>13</sub> (498.44). Pharm: Antiplasmodial. Source: *Tristanopsis calobuxus* (bark). Ref: 5361.

**21927 3,4,5-Trimethoxyphenyl 1-O-β-D-[5-O-(4-methoxybenzoyl)]-apiofuranosyl-(1→6)-β-D-glucopyranoside**

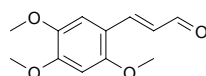
C<sub>28</sub>H<sub>36</sub>O<sub>15</sub> (512.59). Amorphous powder, [α]<sub>D</sub><sup>22</sup> = -79.1° (c = 2.05, MeOH). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells, IC<sub>50</sub> = 35.6 μg/mL, control L-NMMA, IC<sub>50</sub> = 27.4 μg/mL)<sup>[4473]</sup>. Source: BAN ZHEN ZHONG HUA SHU *Tabebuia impetiginosa* (bark), HE SE ZHONG HUA SHU *Tabebuia avellanedae* (inner bark). Ref: 3817, 4473.

**21928 1-(2,4,5-Trimethoxyphenyl)-1,2-propanedione**

C<sub>12</sub>H<sub>14</sub>O<sub>5</sub> (238.24). Pharm: CYP3A4 inhibitor and CYP2D6 inhibitor (*in vitro*, CYP3A4, IC<sub>50</sub> = 74 μmol/L; CYP2D6, IC<sub>50</sub> > 100 μmol/L; control Ketoconazole, CYP3A4, IC<sub>50</sub> = 0.72 μmol/L; control Quinidine, CYP2D6, IC<sub>50</sub> = 0.082 μmol/L). Source: BI CHENG QIE *Piper cubeba* (fruit: yield = 0.000019% dw). Ref: 4797.

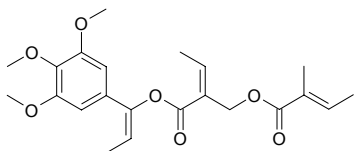
**21929 Z-3-(2,4,5-Trimethoxyphenyl)-2-propenal**

C<sub>12</sub>H<sub>14</sub>O<sub>4</sub> (222.24). Source: BAI CHANG *Acorus calamus*. Ref: 660.



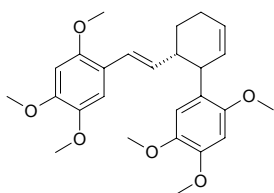
**21930 1-(3,4,5-Trimethoxyphenyl)-2-propenyl 2-(2-methyl-2Z-butenoyloxymethyl)-2Z-butenate**

$C_{22}H_{28}O_7$  (404.46). Pharm: Anti-inflammatory (NF- $\kappa$ B inhibitor, hmn monocytes, prevents LPS-induced cytokines (IL-1, IL-6, TNF, IL-8) release and PGE<sub>2</sub> synthesis: unstimulated control: PGE<sub>2</sub> = 0.54pg/mL, IL-6 = 0.97pg/mL, IL-1 $\beta$  = 0pg/mL, TNF- $\alpha$  = 0.02pg/mL, IL-8 = 3.45pg/mL; LPS (10ng/mL): PGE<sub>2</sub> = 19.24pg/mL, IL-6 = 71.42pg/mL, IL-1 $\beta$  = 3.61pg/mL, TNF- $\alpha$  = 2.66pg/mL, IL-8 = 235.18pg/mL; LPS (10ng/mL + compound 1 $\mu$ g/mL): PGE<sub>2</sub> = 3.49pg/mL, IL-6 = 21.94pg/mL, IL-1 $\beta$  = 0.86pg/mL, TNF- $\alpha$  = 0.53pg/mL, IL-8 = 41.78pg/mL). Source: GUAN MU CHAI HU *Bupleurum fruticosum* (aerial parts). Ref: 5033.



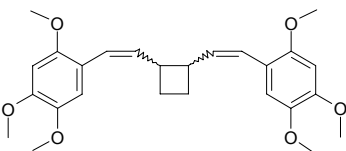
**21931 ( $\pm$ )-trans-3-(2,4,5-Trimethoxyphenyl)-4-[(E)-2,4,5-trimethoxystyryl]-cyclohexene**

$C_{26}H_{32}O_6$  (440.54). Colorless powder (ether-hexane), mp 115–116°C,  $[\alpha]_D^{30} = 0^\circ$  ( $c = 1.0$ , CHCl<sub>3</sub>). Source: SHAN SHAN JIANG *Alpinia flabellata*. Ref: 1884.



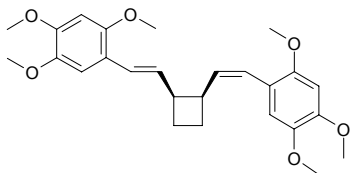
**21932 1,2-bis(2,4,5-Trimethoxy-Z-styryl)cyclobutane**

$C_{26}H_{32}O_6$  (440.54). Oil. Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf). Ref: 5122.



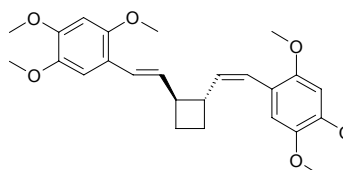
**21933 cis-1-(2,4,5-Trimethoxy-E-styryl)-2-(2,4,5-trimethoxy-Z-styryl)cyclobutane**

$C_{26}H_{32}O_6$  (440.54). White powder, mp 122–124°C,  $[\alpha]_D^{21} = -11.5^\circ$  ( $c = 0.1$ , CHCl<sub>3</sub>). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf). Ref: 5122.



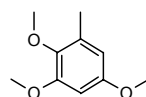
**21934 trans-1-(2,4,5-Trimethoxy-E-styryl)-2-(2,4,5-trimethoxy-Z-styryl)cyclobutane**

$C_{26}H_{32}O_6$  (440.54). Powder, mp 94–96°C,  $[\alpha]_D^{21} = +0.2^\circ$  ( $c = 0.1$ , CHCl<sub>3</sub>). Source: SHAN SHAN JIANG *Alpinia flabellata* (leaf). Ref: 5122.



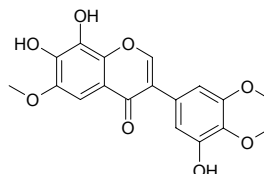
**21935 2,3,5-Trimethoxytoluene**

$C_{10}H_{14}O_3$  (182.22). Source: XI XIN *Asarum sieboldii*. Ref: 2.



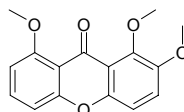
**21936 6,3',4'-Trimethoxy-7,8,5'-trihydroxyisoflavone**

$C_{18}H_{16}O_8$  (360.32). Amorphous powder. Source: JUAN QIAO YUAN WEI *Iris potaninii* (underground part). Ref: 4235.



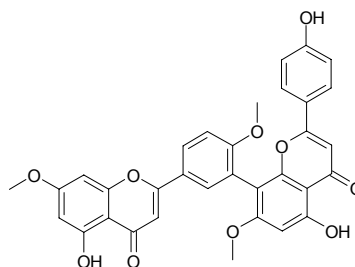
**21937 1,2,8-Trimethoxyxanthone**

$C_{16}H_{14}O_5$  (286.29). mp 139–141°C (MeOH). Source: TE SI MAN NI HU TONG BIAN ZHONG *Calophyllum teysmannii* var. *inophylloide* (wood). Ref: 3937.



**21938 7,4',7''-Tri-O-methyl amentoflavone**

[23132-13-0]  $C_{33}H_{24}O_{10}$  (580.55). Source: ZHAI YE NAN YANG SHAN *Araucaria angustifolia* (seeding root), TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig). Ref: 4253, 5098.



**21939 Trimethylamine**

*N*-Trimethylamine [75-50-3]  $C_3H_9N$  (59.11). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], QUAN XIE *Buthus martensi*. Ref: 2.



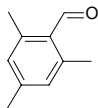


**21940 Trimethylamine oxide**

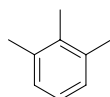
Triox; *N,N*-Dimethylmethanamine *N*-oxide [1184-78-7] C<sub>3</sub>H<sub>9</sub>NO (75.11). mp 255~257°C. Source: HAI XIA *Penaeus orientalis*. Ref: 6.

**21941 2,4,6-Trimethylbenzaldehyde**

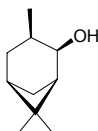
C<sub>10</sub>H<sub>12</sub>O (148.21). Source: DANG GUI *Angelica sinensis*. Ref: 660.

**21942 1,2,3-Trimethylbenzene**

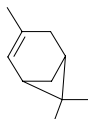
[526-73-8] C<sub>9</sub>H<sub>12</sub> (120.20). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21943 3,6,6-Trimethyl bicyclo[3.1.1]-2-heptanol**

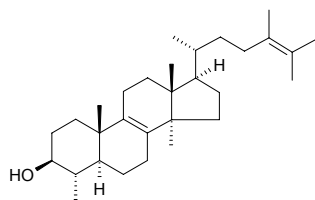
C<sub>10</sub>H<sub>18</sub>O (154.25). Source: MENG GU HAO *Artemisia mongolica*. Ref: 660.

**21944 3,6,6-Trimethyl-bicyclo[3.1.1]-2-heptene**

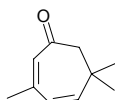
C<sub>10</sub>H<sub>16</sub> (136.24). Source: HANG BAI ZHI *Angelica taiwaniana*. Ref: 2, 660.

**21945 4α,14α,24-Trimethylcholesta-8,24-dienol**

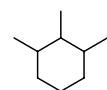
C<sub>30</sub>H<sub>50</sub>O (426.73). Source: GOU QI ZI *Lycium chinense*. Ref: 660.

**21946 3,6,6-Trimethyl-2,4-cycloheptadien-1-one**

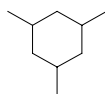
C<sub>10</sub>H<sub>14</sub>O (150.22). Source: AI YE *Artemisia argyi*. Ref: 660.

**21947 1,2,3-Trimethyl-cyclohexane**

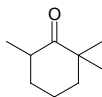
[1678-97-3] C<sub>9</sub>H<sub>18</sub> (126.24). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21948 1,3,5-Trimethylcyclohexane**

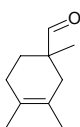
[1839-63-0] C<sub>9</sub>H<sub>18</sub> (126.24). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21949 2,2,6-Trimethyl cyclohexanone**

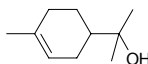
C<sub>9</sub>H<sub>16</sub>O (140.23). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 660.

**21950 1,3,4-Trimethyl-3-cyclohexene-1-carboxaldehyde**

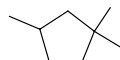
[40702-26-9] C<sub>10</sub>H<sub>16</sub>O (152.24). Source: MA HUANG *Ephedra sinica*. Ref: 2.

**21951 α,α,4-Trimethyl-3-cyclohexene methanol**

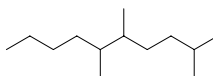
C<sub>10</sub>H<sub>18</sub>O (154.25). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 660.

**21952 1,1,3-Trimethylcyclopentane**

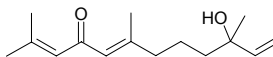
C<sub>8</sub>H<sub>16</sub> (112.22). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21953 2,5,6-Trimethyldecane**

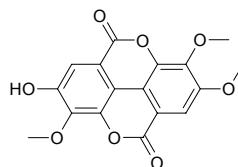
C<sub>13</sub>H<sub>28</sub> (184.37). Source: SHAN NAI *Kaempferia galanga* Ref: 660.

**21954 3,7,11-Trimethyldodeca-1,7,10-trien-3-ol-9-one**

C<sub>15</sub>H<sub>24</sub>O<sub>2</sub> (236.36). Source: ZHANG SHU YE *Cinnamomum camphora*. Ref: 6.

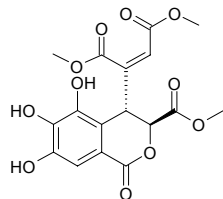
**21955 3,3',4-Tri-*O*-methyl ellagic acid**

3,3',4'-Tri-*O*-methyl ellagic acid [5145-53-9] C<sub>17</sub>H<sub>12</sub>O<sub>8</sub> (344.28). mp 297°C (dec). Pharm: Antioxidant (*in vitro*, effect on conjugated diene formation of LDL or MDA level in rat brain)<sup>[4792]</sup>; hemostatic; analgesic; astringent. Source: DI YU *Sanguisorba officinalis*, SHI LIU ZHONG ZI *Punica granatum* (seed: yield = 0.00045%)<sup>[4792]</sup>, XI SHU *Camptotheca acuminata*, ZI WEI GEN *Lagerstroemia indica*. Ref: 6, 658, 4097, 4792, 5501.

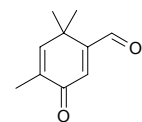


**21956 Trimethyl ester dehydrochebulic acid**

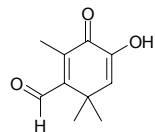
$C_{17}H_{16}O_{11}$  (396.31). White acicular crystals, mp 204~206°C,  $[\alpha]_D = +28.5^\circ$  (MeOH). Source: YE XIA ZHU *Phyllanthus urinaria*. Ref: 283.

**21957 1,1,5-Trimethyl-2-formyl-cyclohexa-2,5-diene-4-one**

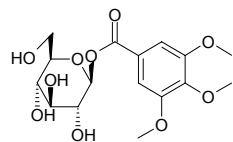
$C_{10}H_{12}O_2$  (164.21). Source: DANG GUI *Angelica sinensis*. Ref: 660.

**21958 2,4,4-Trimethyl-3-formyl-6-hydroxy-2,5-cyclohexadien-1-one**

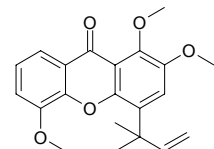
$C_{10}H_{12}O_3$  (180.21). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.

**21959 Trimethylgalloylglucose**

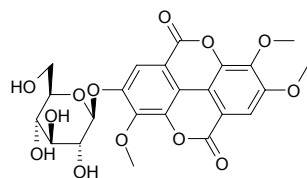
$C_{16}H_{22}O_{10}$  (374.35). Source: HUANG LU ZHI YE *Cotinus coggygia* var. *cinerea*. Ref: 6.

**21960 1,2,5-Tri-O-methylglobuxanthone**

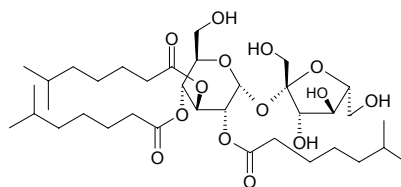
$C_{21}H_{22}O_5$  (354.41). Pale yellow needles, mp 124~126°C (CH<sub>2</sub>Cl<sub>2</sub>-hexane). Source: *Garcinia vilersiana* (bark). Ref: 3902.

**21961 3,3',4'-O-Trimethyl-4'-O-beta-D-glucopyranosyllellagic acid**

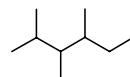
$C_{23}H_{22}O_{13}$  (506.42). Source: XI SHU *Camptotheca acuminata*. Ref: 4097.

**21962 2,3,4-Tri(6-methylheptanoyl)-alpha-D-glucopyranosyl-beta-D-fructofuranoside**

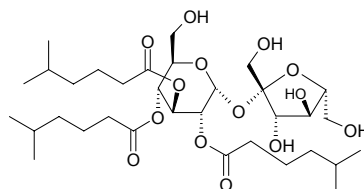
$C_{36}H_{64}O_{14}$  (720.92). Source: ZI MO LI HUA BI DONG QIE *Petunia nyctaginiflora*. Ref: 3396.

**21963 2,3,4-Trimethylhexane**

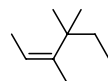
$C_9H_{20}$  (128.26). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21964 2,3,4-Tri(5-methylhexanoyl)-alpha-D-glucopyranosyl-beta-D-fructofuranoside**

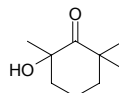
$C_{33}H_{58}O_{14}$  (678.82). Source: ZI MO LI HUA BI DONG QIE *Petunia nyctaginiflora*. Ref: 3396.

**21965 3,4,4-Trimethyl-2-hexene**

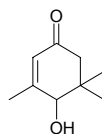
[53941-19-8]  $C_9H_{18}$  (126.24). Source: SHAN ZHA *Crataegus pinnatifida*. Ref: 2.

**21966 2,6,6-Trimethyl-2-hydroxycyclohexanone**

$C_9H_{16}O_2$  (156.23). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 660.

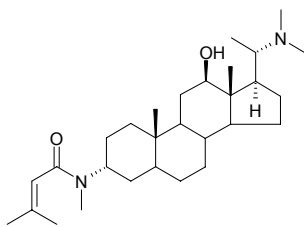
**21967 3,5,5-Trimethyl-4-hydroxy-1-cyclohexanon-2-ene**

4-Hydroxy-3,5,5-trimethyl-2-cyclohexen-1-one  $C_9H_{14}O_2$  (154.21). Pharm: Tyrosinase inhibitor (333.3 μmol/L, InRt = 13.3%; control Kojic acid, 333.3 μmol/L, InRt = 59.8%). Source: ZANG HONG HUA *Crocus sativus* (pollen). Ref: 4233.



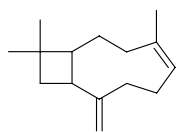
**21968** *N*<sup>3</sup>,*N*<sup>20</sup>,*N*<sup>20</sup>-Trimethyl-*N*<sup>3</sup>-(3-methyl-2-butenyl)-3,20-diamino-pregnan-12-ol

Anticancer Alkaloid PMV70P691-002 C<sub>29</sub>H<sub>50</sub>N<sub>2</sub>O<sub>2</sub> (458.73). **Pharm:** Cytotoxic (estrone sulfatase assay). **Source:** YANG WO BAN DENG GUO *Pachysandra procumbens*. **Ref:** 5038.



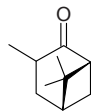
**21969** *cis*-4,11,11-Trimethyl-8-methylenebicyclo[7.2.0]-undeca-4-ene

C<sub>15</sub>H<sub>24</sub> (204.36). **Source:** HANG BAI ZHI *Angelica taiwaniana*, MAN SHAN HONG *Rhododendron dauricum*. **Ref:** 2, 660.



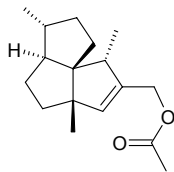
**21970** 3,6,6-Trimethyl norpinan-2-one

C<sub>10</sub>H<sub>16</sub>O (152.24). **Source:** RU XIANG *Boswellia carterii*. **Ref:** 660.



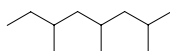
**21971** [(1*R*\*,3*aS*,6*R*)-1,3*a*,6-Trimethyl-1,3*a*,4,5,5*a*,6,7,8-octahydrocyclopenta[*c*]pentalen-2-yl]methyl acetate

C<sub>17</sub>H<sub>26</sub>O<sub>2</sub> (262.40). **Pharm:** Anti-Inflammatory (anti-oedema, control oedema = (7.8±0.3)mg, 100µg/cm<sup>2</sup>, oedema = (4.3±0.4)mg, *p*<0.05, reduction = 45%, Indomethacin oedema = (3.4±0.3)mg, *p*<0.05, reduction = 56%). **Source:** GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). **Ref:** 4985.



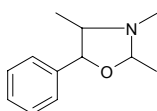
**21972** 2,4,6-Trimethyl octane

C<sub>11</sub>H<sub>24</sub> (156.31). **Source:** SHAN NAI *Kaempferia galanga*. **Ref:** 660.



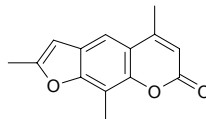
**21973** 2,3,4-Trimethyl-5-phenyloxazolidine

C<sub>12</sub>H<sub>17</sub>NO (191.28). **Source:** MA HUANG *Ephedra sinica*. **Ref:** 2.



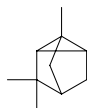
**21974** 4,5',8-Trimethyl psoralen

[3902-71-4] C<sub>14</sub>H<sub>12</sub>O<sub>3</sub> (228.25). **Pharm:** Dermatitic (causes contact dermatitis). **Source:** HAN QIN *Apium graveolens*. **Ref:** 658.



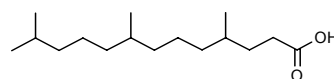
**21975** 1,3,3-Trimethyltricyclo[2.2.1.0<sup>2,6</sup>]heptane

C<sub>10</sub>H<sub>16</sub> (136.24). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 2.



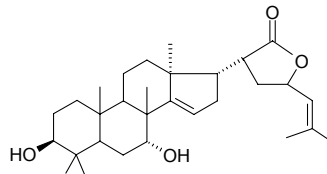
**21976** 4,8,12-Trimethyl tridecanoic acid

C<sub>16</sub>H<sub>32</sub>O<sub>2</sub> (256.43). **Source:** QIANG HUO *Notopterygium incisum*. **Ref:** 2.



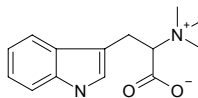
**21977** 4,4,8-Trimethyl-3β,7α,23-trihydroxy-chola-14,24-dien-21-oic acid-21,23-lactone

C<sub>30</sub>H<sub>46</sub>O<sub>4</sub> (470.70). **Source:** KU LIAN PI *Melia azedarach*. **Ref:** 6.



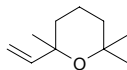
**21978** Trimethyl tryptophan

C<sub>14</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub> (246.13). **Source:** XIANG SI ZI *Abrus precatorius*. **Ref:** 660.



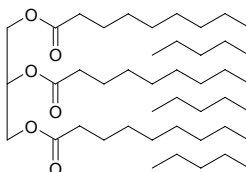
**21979** 2,2,6-Trimethyl-6-vinyl-tetrahydropyran

[7392-19-0] C<sub>10</sub>H<sub>18</sub>O (154.25). **Source:** XIANG YE *Pelargonium graveolens*. **Ref:** 6.



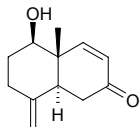
**21980** Trimyristin

C<sub>45</sub>H<sub>86</sub>O<sub>6</sub> (723.18). **Source:** ROU DOU KOU *Myristica fragrans*. **Ref:** 660.

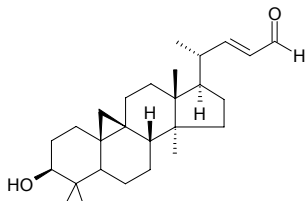


**21981 7-Trinoreudesm-4(15),8-dien-1 $\beta$ -ol-7-one**

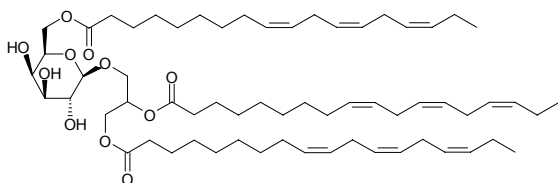
C<sub>12</sub>H<sub>16</sub>O<sub>2</sub> (192.26). Colorless gum,  $[\alpha]_D^{20} = +128^\circ$  ( $c = 0.1$ , CHCl<sub>3</sub>). Source: ZHONG JIAN JIN JI ER *Caragana intermedia* (aerial parts). Ref: 4786.

**21982 (22E)-25,26,27-Trinor-3 $\beta$ -hydroxycycloart-22-en-24-al**

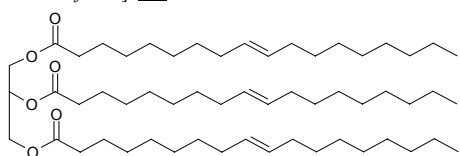
C<sub>27</sub>H<sub>42</sub>O<sub>2</sub> (398.36). mp 110–113°C,  $[\alpha]_D^{25} = +47.9^\circ$  ( $c = 0.2$ , CHCl<sub>3</sub>). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 3524.

**21983 (2S)-1,2,6'-Tri-O-[(9Z,12Z,15Z)-octadeca-9,12,15-trienoyl]-3-O- $\beta$ -D-galactopyranosyl glycerol**

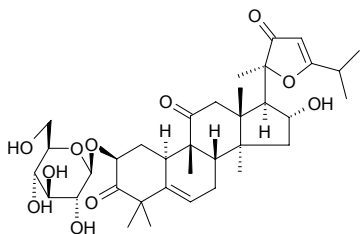
C<sub>63</sub>H<sub>102</sub>O<sub>11</sub> (1035.51). Oil,  $[\alpha]_D = +6.9^\circ$  ( $c = 1.11$ , EtOH). Source: FEI YUE GUO *Feijoa sellowiana* (leaf). Ref: 3878.

**21984 Triolein**

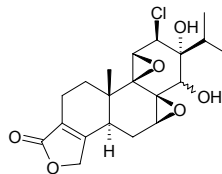
[537-39-3] C<sub>57</sub>H<sub>104</sub>O<sub>6</sub> (885.46). mp -4°C, bp 235–240°C/18mmHg. Source: BAI E GAO *Anser cygnoides domestica*, TONG YOU *Aleurites cordata* [Syn. *Aleurites fordii*]. Ref: 6.

**21985 3,11,22-Trioxo-16 $\alpha$ -hydroxy-(20S,24)-epoxy-cucurbit-5,23-diene-2 $\beta$ -O- $\beta$ -D-glucopyranoside**

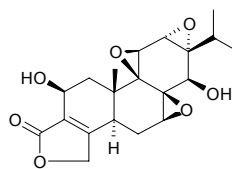
C<sub>36</sub>H<sub>52</sub>O<sub>11</sub> (660.81). White amorphous powder,  $[\alpha]_D^{26} = +35.9^\circ$  ( $c = 0.167$ , MeOH). Source: KU XUAN SHEN *Picria feltrrae* (whole herb). Ref: 4856.

**21986 Tripchlorolide**

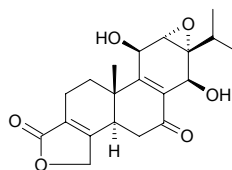
C<sub>20</sub>H<sub>25</sub>ClO<sub>6</sub> (396.87). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

**21987 Triptidiolide**

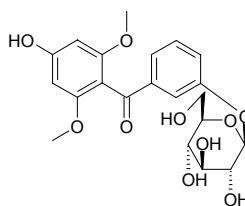
C<sub>20</sub>H<sub>24</sub>O<sub>7</sub> (376.41). mp 210–211°C, 226–228°C. Pharm: Antineoplastic (KB, ED<sub>50</sub> = 0.0042 $\mu$ g/mL); antineoplastic (mus L<sub>1210</sub>, 1mg/kg, biotic prolonged rate  $\geq 130\%$ ). Source: LEI GONG TENG *Tripterygium wilfordii*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 4, 256, 658.

**21988 Triptiotolide**

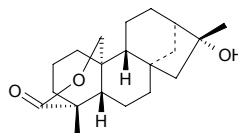
C<sub>20</sub>H<sub>24</sub>O<sub>6</sub> (360.41). Colorless hyaloid rhabdoid crystals, mp 222–224°C. Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 256.

**21989 Triptephenoside**

C<sub>21</sub>H<sub>24</sub>O<sub>10</sub> (436.42). Amorphous powder,  $[\alpha]_D^{27} = -54.5^\circ$  ( $c = 0.56$ , MeOH). Source: RI BEN SHUANG HU DIE *Tripterospermum japonicum*. Ref: 3533.

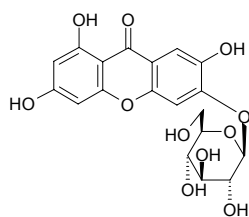
**21990 Tripterfordin**

Tripterifordine [139122-81-9] C<sub>20</sub>H<sub>30</sub>O<sub>3</sub> (318.46). White loose crystals (CHCl<sub>3</sub>), mp 253–255°C. Pharm: Anti-HIV (lymphocyte H9, against HIV replication, EC<sub>50</sub> = 1 $\mu$ g/mL). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660, 683, 1764.

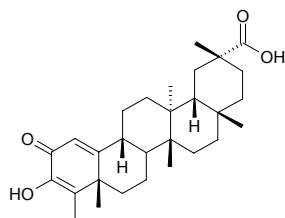


**21991 Tripteroside**

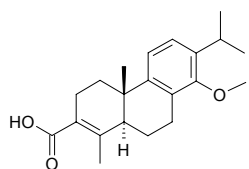
$C_{19}H_{18}O_{11}$  (422.35). **Pharm:** CNS depressant (animal model). **Source:** TAI WAN SHUANG HU DIE *Tripterospermum taiwanense*. **Ref:** 658.

**21992 Tripterygone**

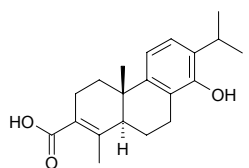
3-Hydroxy-25-norfriedel-3,1(10)-dien-2-one-30-oic acid  $C_{29}H_{42}O_4$  (454.66). Colorless acicular crystals, mp 286~287°C. **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 190, 660.

**21993 Triptinin A**

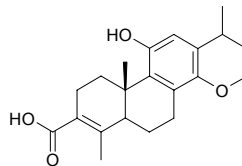
Triptoditerpenic acid B [189389-02-4]  $C_{21}H_{28}O_3$  (328.45). Amorphous powder,  $[\alpha]_D = +26^\circ$  ( $c = 0.42$ , methanol); white acicular crystals, mp 209~211°C. **Pharm:** Antiallergic (50µg/mL, leukotriene D<sub>4</sub> antagonist, dissociation constant  $K_D = 0.000124$ ). **Source:** KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 252, 1102.

**21994 Triptinin B**

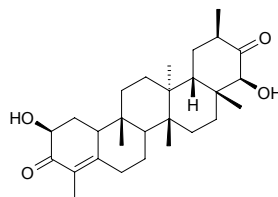
[189389-05-7]  $C_{20}H_{26}O_3$  (314.43). Amorphous powder,  $[\alpha]_D = +17.1^\circ$  ( $c = 0.49$ , methanol). **Pharm:** Antiallergic (50µg/mL, leukotriene D<sub>4</sub> antagonist, dissociation constant  $K_D = 0.000034$ ). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 1102.

**21995 Triptobenzene H**

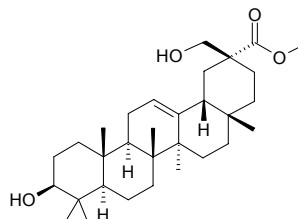
$C_{21}H_{28}O_4$  (344.45). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2073.

**21996 Triptocalline A**

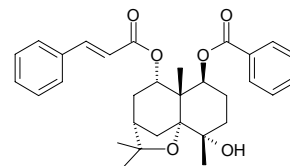
[201534-10-3]  $C_{28}H_{42}O_4$  (442.64). **Pharm:** DPPH scavenger inactive (for 40µmol/L DPPH radical,  $SC_{50} > 40\mu\text{mol/L}$ )<sup>[4378]</sup>. **Source:** LEI GONG TENG *Tripterygium wilfordii*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). **Ref:** 1521, 4378.

**21997 Triptodihydroxy acid methyl ester**

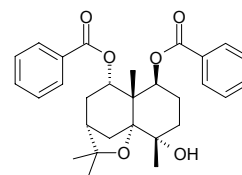
$C_{31}H_{50}O_4$  (486.74). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

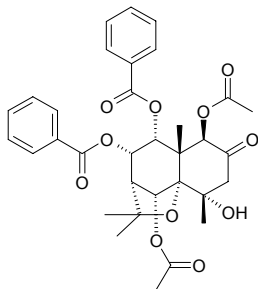
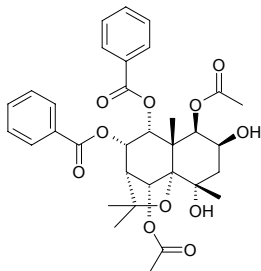
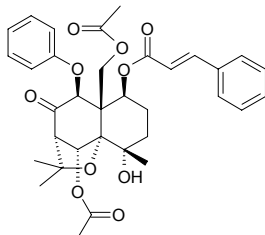
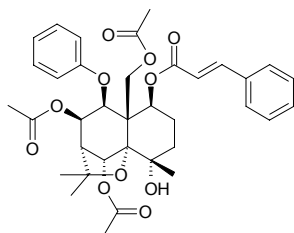
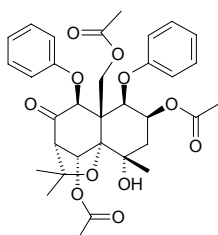
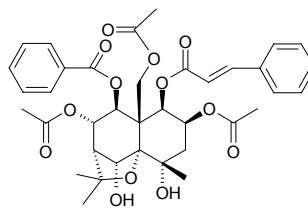
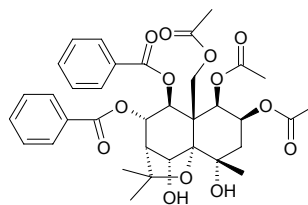
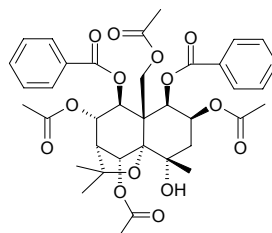
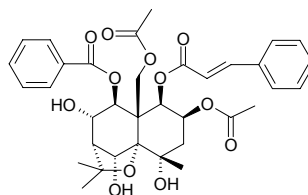
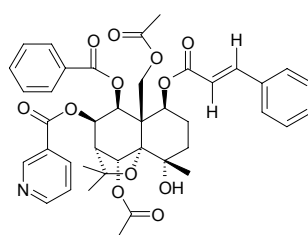
**21998 Triptofordin A**

$C_{31}H_{36}O_6$  (504.63). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

**21999 Triptofordin B<sub>1</sub>**

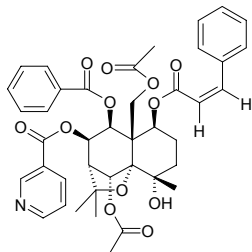
$C_{29}H_{34}O_6$  (478.59). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.



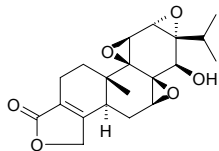
**22000 Triptofordin B<sub>2</sub>**C<sub>33</sub>H<sub>36</sub>O<sub>11</sub> (608.65). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22001 Triptofordin C<sub>2</sub>**C<sub>33</sub>H<sub>38</sub>O<sub>11</sub> (610.66). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22002 Triptofordin D<sub>1</sub>**C<sub>34</sub>H<sub>38</sub>O<sub>10</sub> (606.68). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22003 Triptofordin D<sub>2</sub>**C<sub>34</sub>H<sub>42</sub>O<sub>11</sub> (650.73). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22004 Triptofordin E**C<sub>33</sub>H<sub>38</sub>O<sub>11</sub> (610.66). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22005 Triptofordin F<sub>1</sub>**C<sub>37</sub>H<sub>42</sub>O<sub>13</sub> (694.74). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22006 Triptofordin F<sub>2</sub>**C<sub>35</sub>H<sub>40</sub>O<sub>13</sub> (668.70). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22007 Triptofordin F<sub>3</sub>**C<sub>37</sub>H<sub>42</sub>O<sub>14</sub> (710.74). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22008 Triptofordin F<sub>4</sub>**C<sub>35</sub>H<sub>40</sub>O<sub>12</sub> (652.70). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.**22009 Triptofordinine A<sub>1</sub>**C<sub>41</sub>H<sub>43</sub>NO<sub>12</sub> (741.80). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22010 Triptofordinine A<sub>2</sub>**

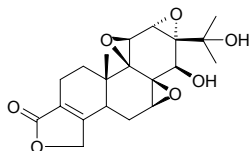
C<sub>41</sub>H<sub>43</sub>NO<sub>12</sub> (741.80). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22011 Triptolide**

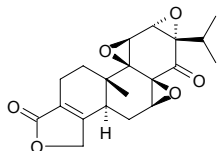
C<sub>20</sub>H<sub>24</sub>O<sub>6</sub> (360.41). mp 227~228°C. Pharm: Antineoplastic (mus L<sub>1210</sub>, 0.1mg/kg, biotic prolonged rate > 159%; mus P<sub>388</sub>, 0.25mg/kg, biotic prolonged rate > 159%; mus KB, *in vitro*, ED<sub>50</sub> = 0.0017µg/mL; mus S37 liver cancer and rat W<sub>256</sub>); anti-fertility agent; mutagen; used in treatment of psoriasis, rheumatic arthritis and leukemia; cytotoxic (Bel7402 cell lines, IC<sub>50</sub> > 100µmol/L, control Taxol, IC<sub>50</sub> = 0.52µmol/L; BGC<sub>823</sub>, IC<sub>50</sub> = 0.09µmol/L, Taxol, IC<sub>50</sub> > 500µmol/L; HeLa, IC<sub>50</sub> = 0.04µmol/L, Taxol, IC<sub>50</sub> = 34.25µmol/L; HL-60, IC<sub>50</sub> = 0.03µmol/L, Taxol, IC<sub>50</sub> = 3.5 × 10<sup>-4</sup>µmol/L; KB, IC<sub>50</sub> = 0.03µmol/L, Taxol, not tested; MCF7, IC<sub>50</sub> = 0.07µmol/L, Taxol, IC<sub>50</sub> = 12.64µmol/L)<sup>[5454]</sup>; LD<sub>50</sub> (rat, orl) = 1195µg/kg, (rat, sc) = 1136µg/kg. Source: LEI GONG TENG *Tripterygium wilfordii* (root: mean content of 3 origins = 0.0013%<sup>[5508]</sup>), LEI GONG TENG *Tripterygium wilfordii* (structural modification of triptonide by *Aspergillus niger*), KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 4, 658, 5454, 5508.

**22012 Triptolidenol**

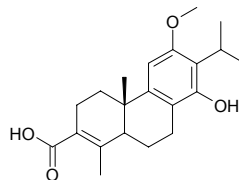
C<sub>20</sub>H<sub>24</sub>O<sub>7</sub> (376.41). Source: LEI GONG TENG *Tripterygium wilfordii* (root heart: mean content = 0.0033%<sup>[5508]</sup>). Ref: 256, 5508.

**22013 Triptonide**

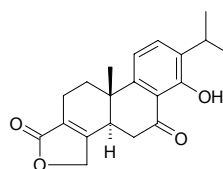
[38647-11-9] C<sub>20</sub>H<sub>22</sub>O<sub>6</sub> (358.39). Colorless crystals (dichloroethane-ether), mp 227~228°C, [α]<sub>D</sub><sup>25</sup> = -154° (c = 0.369, dichloromethane). Pharm: Cytotoxic (KB, ED<sub>50</sub> = 10<sup>-4</sup>~10<sup>-3</sup>µg/mL and 0.021µg/mL); cytotoxic (Bel7402 cell lines, IC<sub>50</sub> > 100µmol/L, control Taxol, IC<sub>50</sub> = 0.52µmol/L; BGC<sub>823</sub>, IC<sub>50</sub> = 0.85µmol/L, Taxol, IC<sub>50</sub> > 500µmol/L; HeLa, IC<sub>50</sub> = 0.03µmol/L, Taxol, IC<sub>50</sub> = 34.25µmol/L; HL-60, IC<sub>50</sub> = 0.02µmol/L, Taxol, IC<sub>50</sub> = 3.5E-4µmol/L; KB, IC<sub>50</sub> = 0.01µmol/L, Taxol, not tested; MCF7, IC<sub>50</sub> = 0.10µmol/L, Taxol, IC<sub>50</sub> = 12.64µmol/L)<sup>[5454]</sup>. Source: LEI GONG TENG *Tripterygium wilfordii*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 5, 661, 5454.

**22014 Triptonoditerpenic acid**

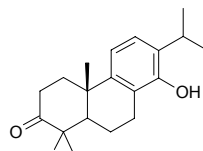
C<sub>21</sub>H<sub>28</sub>O<sub>4</sub> (344.45). White acicular crystals, mp 189~191°C. Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*. Ref: 197.

**22015 Triptonolide**

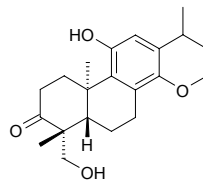
[79548-61-1] C<sub>20</sub>H<sub>22</sub>O<sub>4</sub> (326.40). Pharm: Inhibits hyperplasia of lymphocyte (ConA induced, 1ng/mL, InRt = 32.6%, 0.1ng/mL, InRt = 8.7%). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2, 923.

**22016 Triptonoterpene**

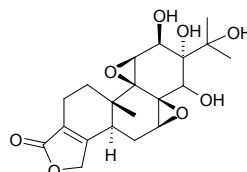
14-Hydroxy-abieta-8,11,13-trien-3-one C<sub>20</sub>H<sub>28</sub>O<sub>2</sub> (300.45). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22017 Triptonoterpenol**

C<sub>21</sub>H<sub>30</sub>O<sub>4</sub> (346.47). Colorless columnar crystals, mp 197~199°C. Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. Ref: 78, 660.

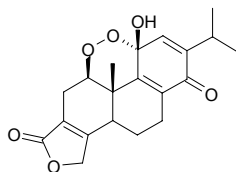
**22018 Triptotetraolide**

C<sub>20</sub>H<sub>26</sub>O<sub>8</sub> (394.43). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

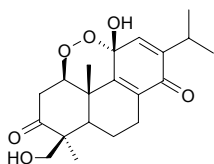


**22019 Triptotin A**

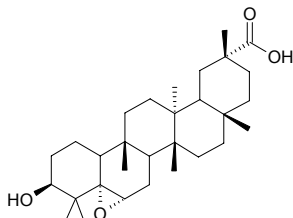
$C_{20}H_{22}O_6$  (358.39). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2076.

**22020 Triptotin B**

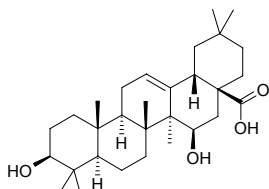
$C_{20}H_{26}O_6$  (362.43). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2076.

**22021 Triptotin C**

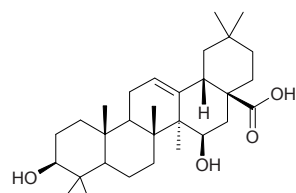
$C_{30}H_{48}O_4$  (472.71). White acicular crystals, mp 250–252°C. Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 670.

**22022 Triptotriterpenic acid A**

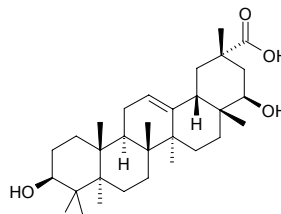
[95753-41-6]  $C_{30}H_{48}O_4$  (472.71). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22023 Triptotriterpenic acid A\*‡**

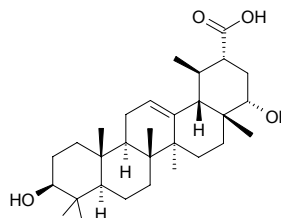
$C_{30}H_{48}O_4$  (472.71). White acicular crystals, mp 249–251°C, 304–308°C (dec), (two melting points),  $[\alpha]_D^{13} = +61.5^\circ$  ( $c = 0.2$ , absolute ethanol). Pharm: Anti-inflammatory (mus, edema on ears caused by oleum crotonis, edema in rat joints caused by agar); Ileal smooth muscle relaxant (gpg, due to histamine). Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. Ref: 903, 905. ‡Note: see compound 22022.

**22024 Triptotriterpenic acid B**

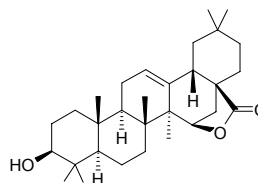
[128301-32-6]  $C_{30}H_{48}O_4$  (472.71). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22025 Triptotriterpenic acid C**

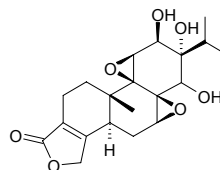
Tripterygic acid A  $C_{30}H_{48}O_4$  (472.71). White amorphous powder, mp 247.5–249.5°C. Pharm: DPPH scavenger inactive (for 40 μmol/L DPPH radical,  $SC_{50} > 40 \mu\text{mol/L}$ )<sup>[4378]</sup>. Source: LEI GONG TENG *Tripterygium wilfordii*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 660, 125, 4378.

**22026 Triptotriterpenoid lactone A**

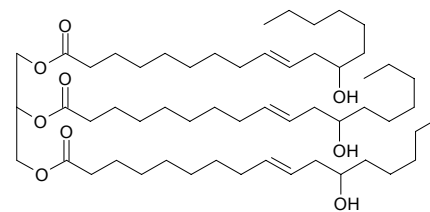
$C_{30}H_{46}O_3$  (454.70). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22027 Triptriolide**

$C_{20}H_{26}O_7$  (378.43). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

**22028 Triricinolein**

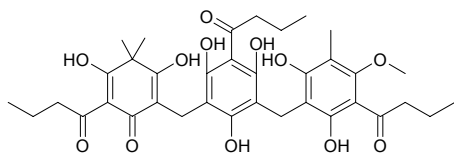
$C_{57}H_{104}O_9$  (933.46). Source: BI MA YOU *Ricinus communis*. Ref: 6.



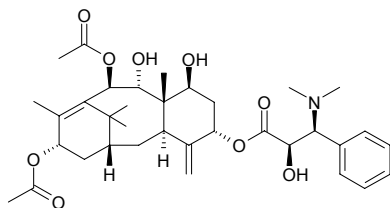


**22029 Trisaspidin**

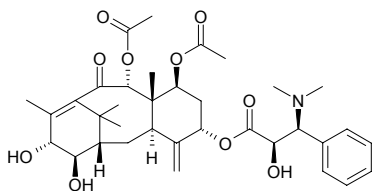
$C_{36}H_{44}O_{12}$  (668.74). Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*.  
Ref: 660.

**22030 2',7β,9α-Trisdeacetylaustrospicatine**

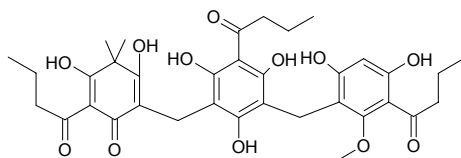
$C_{35}H_{49}NO_9$  (627.78).  $[\alpha]_D = +41^\circ$  (CHCl<sub>3</sub>). Source: AO DA LI YA HONG  
DOU SHAN *Austrotaxus spicata*. Ref: 662.

**22031 2',13α,14β-Trisdeacetylaustrotaxine**

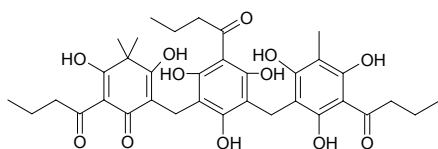
$C_{35}H_{47}NO_{10}$  (641.77).  $[\alpha]_D = -21^\circ$  (CHCl<sub>3</sub>). Source: AO DA LI YA HONG  
DOU SHAN *Austrotaxus spicata*. Ref: 662.

**22032 Trisdesaspidin BBB**

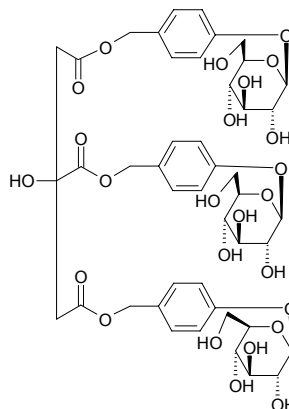
Trisdesaspidin  $C_{35}H_{42}O_{12}$  (654.72). Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*, MAO GUAN ZHONG *Dryopteris championii*. Ref: 660.

**22033 Trisflavaspidic acid**

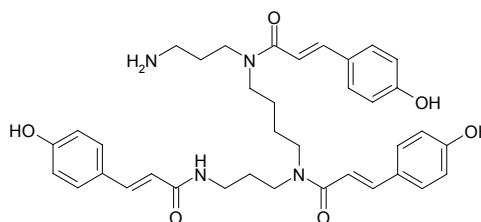
$C_{35}H_{42}O_{12}$  (654.72). Source: AO DI LI LIN MAO JUE *Dryopteris austriaca*,  
MAO GUAN ZHONG *Dryopteris championii*. Ref: 660.

**22034 Tris-[4-(β-D-glucopyranosyloxy)benzyl]citrate**

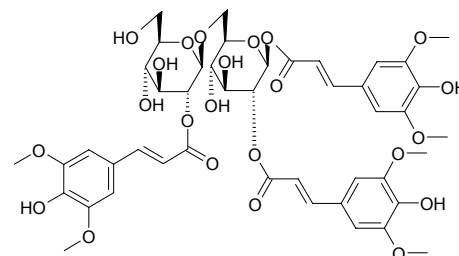
$C_{45}H_{56}O_{25}$  (996.93). Source: TIAN MA *Gastrodia elata*. Ref: 660.

**22035 N1,N5,N10-Tris[3-(4-hydroxyphenyl)-2-propenoyl]-1,5,10,14-tetraazatetradecane**

$C_{37}H_{44}N_4O_6$  (640.79). Pharm: Nonpeptide tachykinin NK1 receptor antagonist inactive (guinea pig ileum,  $K_i > 1000\text{nmol/L}$ , hmn NK<sub>1</sub> receptors on CHO cells,  $K_i > 1000\text{nmol/L}$ ,  $K_i$  is the concentration of compound which displaces the log concentration response curve by log 2). Source: DA BO SI JU *Cosmos bipinnata*, GAO GUI CHUN HUANG JU *Anthemis nobilis*, MU<sup>(3)</sup> JU *Matricaria chamomilla* [Syn. *Matricaria recutita*] (dried flower). Ref: 4062.

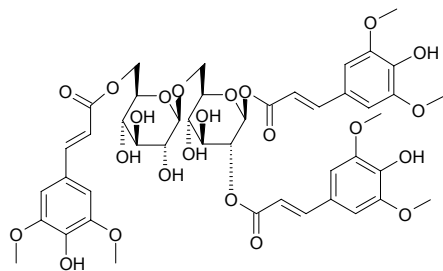
**22036 1,2,2'-Tri-O-E-sinapoyl-β-gentiobiose**

$C_{45}H_{52}O_{23}$  (960.90). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

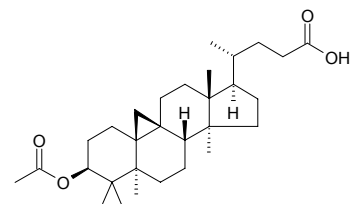


**22037 1,2,6'-Tri-*O*-*E*-sinapoyl- $\beta$ -gentiobiose**

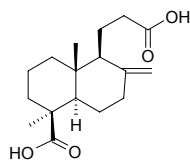
$C_{45}H_{52}O_{23}$  (960.90). Source: OU ZHOU YOU CAI *Brassica napus* (seed). Ref: 5289.

**22038 Trisnorcycloartenoloic acid acetate**

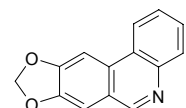
$C_{29}H_{46}O_4$  (458.69). Source: HONG ZU HAO *Artemisia rubripes*. Ref: 660.

**22039 14,15,16-Trisnor-8(17)-labdene-13,19-dioic acid**

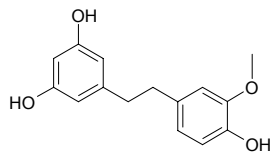
$C_{17}H_{26}O_4$  (294.39). Source: BAI ZI REN *Biota orientalis* [Syn. *Thuja orientalis*; *Platycladus orientalis*]. Ref: 660.

**22040 Trisphaeridine**

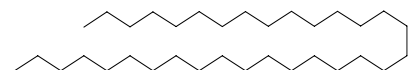
$C_{14}H_9NO_2$  (223.23). Pharm: Antiretroviral and cytotoxic ( $ID_{50} = 5.0 \mu\text{g/mL}$ ,  $TC_{50} = 7.5 \mu\text{g/mL}$ ,  $TI_{50}$  ( $TC_{50}/ID_{50}$ ) = 1.5)<sup>[5026]</sup>. Source: SAN QIU BO SI SHI SUAN *Ungernia trisphaera* (leaf), *Pancreatium maritimum* (aerial parts). Ref: 1521, 5026.

**22041 Tristin**

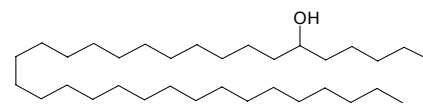
$C_{15}H_{16}O_4$  (260.29). Source: MI HUA SHI HU *Dendrobium densiflorum* (stem). Ref: 5171.

**22042 n-Tritriacontane**

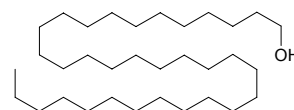
[630-05-7]  $C_{33}H_{68}$  (464.91). mp 72°C, bp 208°C/0mmHg. Source: GUANG JIN QIAN CAO *Desmodium styracifolium*, JI CHANG LANG DU *Euphorbia esula*. Ref: 6.

**22043 6-Tritriacontanol**

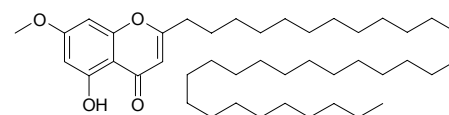
$C_{33}H_{68}O$  (480.91). Source: XIA YE XIANG PU *Typha angustifolia*. Ref: 2, 660.

**22044 Tritriacontanol**

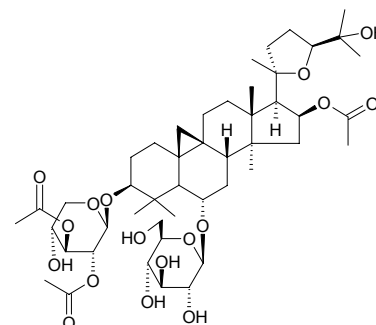
$C_{33}H_{68}O$  (480.91). Source: JI CHANG LANG DU *Euphorbia esula*, JIA MA BIAN *Stachytarpheta jamaicensis*, QIU SUI QIAN JIN BA *Flemingia strobilifera*, TU NIU XI *Achyranthes aspera*, ZHI KE *Citrus aurantium*. Ref: 660, 1521.

**22045 2-Tritriacontyl-5-hydroxy-7-methoxychromone**

[144049-68-3]  $C_{43}H_{74}O_4$  (655.06). Colorless rhombic crystals (petroleum ether-ethyl acetate), mp 83°C. Pharm: Antibacterial (*Bacillus pyocyaneus*, *Bacillus coli*). Source: FAN MA *Agave americana*. Ref: 1170.

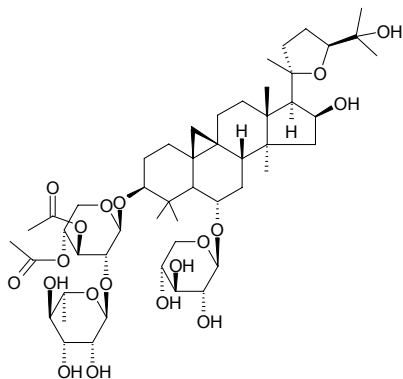
**22046 Trojanoside I**

3-*O*- $\beta$ -(2',3'-Di-*O*-acetyl)-*D*-xylopyranosyl-6-*O*- $\beta$ -*D*-glucopyranosyl-16-*O*-acetoxy-20(*R*),24(*S*)-epoxycycloartane-3 $\beta$ ,6 $\alpha$ ,16 $\beta$ ,25-tetrol  $C_{47}H_{74}O_{17}$  (911.10). White powder. Source: TE LUO YI HUANG QI *Astragalus trojanus* (aerial parts). Ref: 4145.

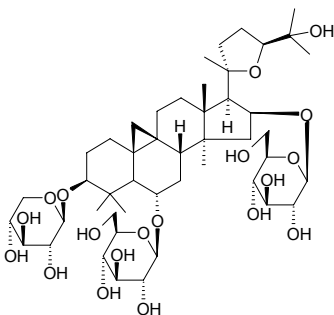


**22047 Trojanoside J**

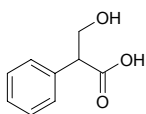
3-*O*-[ $\alpha$ -*L*-Rhamnopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -(3',4'-di-*O*-acetyl)-*D*-xylopyranosyl]-6-*O*- $\beta$ -*D*-xylopyranosyl-20(*R*),24(*S*)-epoxycycloartane-3 $\beta$ ,6 $\alpha$ ,16 $\beta$ ,25-tetrol C<sub>50</sub>H<sub>80</sub>O<sub>19</sub> (985.18). White powder. Source: TE LUO YI HUANG QI *Astragalus trojanus* (aerial parts). Ref: 4145.

**22048 Trojanoside K**

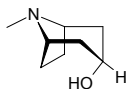
3-*O*- $\beta$ -*D*-Xylopyranosyl-6,16-di-*O*- $\beta$ -*D*-glucopyranosyl-20(*R*),24(*S*)-epoxycycloartane-3 $\beta$ ,6 $\alpha$ ,16 $\beta$ ,25-tetrol C<sub>47</sub>H<sub>78</sub>O<sub>19</sub> (947.13). White powder. Source: TE LUO YI HUANG QI *Astragalus trojanus* (aerial parts). Ref: 4145.

**22049 Tropic acid**

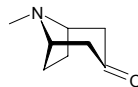
[529-64-6] C<sub>9</sub>H<sub>10</sub>O<sub>3</sub> (166.18). mp ( $\pm$ ) 118°C. Source: OU MAN TUO LUO GEN *Datura stramonium*. Ref: 6, 660.

**22050 Tropine**

3-Tropanol [120-29-6] C<sub>8</sub>H<sub>15</sub>NO (141.21). mp 63°C, bp 229°C. Source: LANG DANG GEN *Hyoscyamus niger*, MAN TUO LUO GEN *Datura metel*, MAN TUO LUO ZI *Datura metel*, MAO MAN TUO LUO GEN *Datura innoxia*, SAI LANG DANG *Anisodus luridus*, ZANG QIE *Anisodus tanguticus* [Syn. *Scopolia tangutica*]. Ref: 6, 660.

**22051 Tropinone**

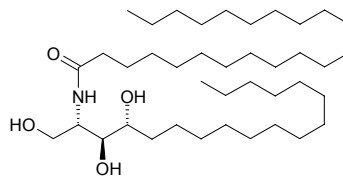
[532-24-1] C<sub>8</sub>H<sub>13</sub>NO (139.20). mp 42°C, bp 224~225°C. Source: JIA SUAN JIANG *Nicandra physaloides*. Ref: 6.

**22052 Tropolone**

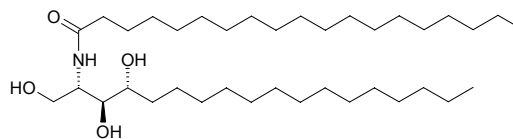
Purpurocatechol; 2-Hydroxy-2,4,6-cycloheptatrien-1-one [533-75-5] C<sub>7</sub>H<sub>6</sub>O<sub>2</sub> (122.12). mp 49~50°C. Source: SHAN CI BAI *Juniperus taiwaniana*. Ref: 6.

**22053 Trufflesphingolipid A**

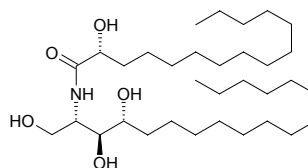
C<sub>40</sub>H<sub>81</sub>NO<sub>4</sub> (640.10). Source: YIN DU KUAI JUN *Tuber indicum*. Ref: 2075.

**22054 Trufflesphingolipid B**

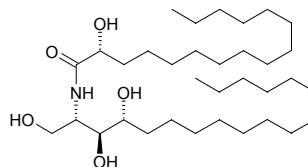
C<sub>37</sub>H<sub>75</sub>NO<sub>4</sub> (598.01). Source: YIN DU KUAI JUN *Tuber indicum*. Ref: 2075.

**22055 Trufflesphingolipid C**

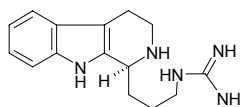
C<sub>33</sub>H<sub>67</sub>NO<sub>5</sub> (557.91). Pharm: Phospholipase PLA<sub>2</sub>inhibitor. Source: YIN DU KUAI JUN *Tuber indicum*. Ref: 2075.

**22056 Trufflesphingolipid D**

C<sub>34</sub>H<sub>69</sub>NO<sub>5</sub> (571.93). Source: YIN DU KUAI JUN *Tuber indicum*. Ref: 2075.

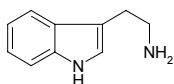
**22057 Trypargine**

C<sub>15</sub>H<sub>21</sub>N<sub>5</sub> (271.37). Pharm: LD (mus, iv) = 10mg/kg. Source: African frog. Ref: 658.

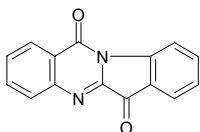


**22058 Tryptamine**

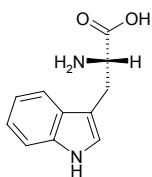
3-(2-Aminoethyl)indole [61-54-1]  $C_{10}H_{12}N_2$  (160.22). mp 116–117°C, bp 137°C/0.15mmHg. **Pharm:** Precursor of indoleacetic acid. **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*, FAN QIE *Lycopersicon esculentum*, HUANG GUA *Cucumis sativus*, MA LING SHU *Solanum tuberosum*, MAI YA *Hordeum vulgare*, YAN CAO *Nicotiana tabacum*, YU SHU SHU *Zea mays*. **Ref:** 2, 658.

**22059 Tryptanthrine**

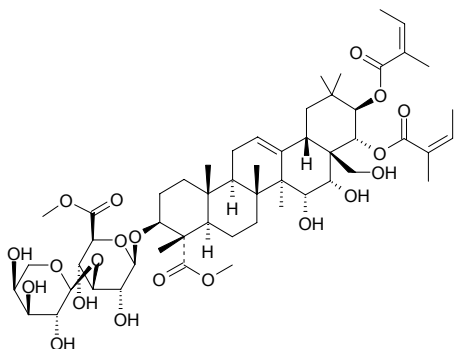
[13220-57-0]  $C_{15}H_8N_2O_2$  (248.24). **Pharm:** Antibacterial (*Bacillus subtilis*, MIC = 25 µg/mL, *Bacillus* spp.); antifungal (*Trichophyton* spp., MIC = 3.1 µg/mL, cutaneous fungi); anti-inflammatory (inhibits synthesis of prostaglandin and leukotriene; iNOS inhibitor)<sup>[4986]</sup>. **Source:** BAN LAN GEN *Isatis indigotica*, DA QING YE *Isatis indigotica*, LIAO LAN GUO *Polygonum tinctorium*, MA LAN GEN *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*], OU ZHOU SONG LAN *Isatis tinctoria*, OU ZHOU SONG LAN *Isatis tinctoria* (leaf). **Ref:** 2, 658, 660, 4967, 5001.

**22060 Tryptophan**

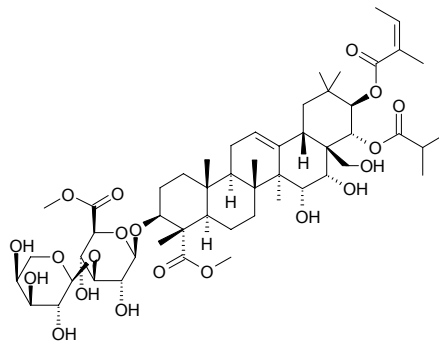
2-Amino-3-(3-indolyl)propanoic acid [73-22-3]  $C_{11}H_{12}N_2O_2$  (204.23). mp (+) 275–282°C, (–) 289°C (dec), (±) 283–285°C. **Pharm:** Antidepressant; essential amino acid. **Source:** CAN JIAN *Bombyx mori*, CANG ZHU *Atractylodes lancea*, DA QING YE *Isatis indigotica*, GUI GAI *Coprinus atramentarius*, GOU QI ZI *Lycium chinense*, HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], HU ZHANG *Polygonum cuspidatum*. **Ref:** 6, 658, 660, 1521, 2537, 4186, 4348.

**22061 TR-saponin A**

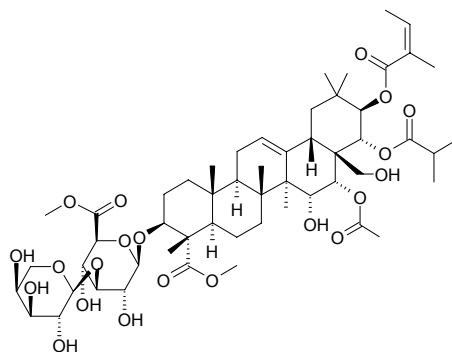
$C_{53}H_{80}O_{20}$  (1037.22). **Source:** PU ER CHA *Camellia sinensis* var. *assamica*. **Ref:** 768.

**22062 TR-saponin B**

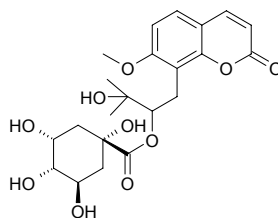
$C_{53}H_{82}O_{20}$  (1039.23). **Source:** PU ER CHA *Camellia sinensis* var. *assamica*. **Ref:** 768.

**22063 TR-saponin C**

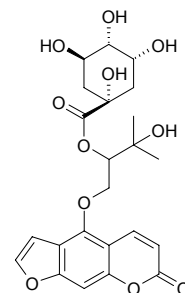
$C_{53}H_{84}O_{21}$  (1081.27). **Source:** PU ER CHA *Camellia sinensis* var. *assamica*. **Ref:** 768.

**22064 Tschimganic ester A**

$C_{22}H_{28}O_{10}$  (452.46).  $[\alpha]_D^{25} = -5.0^\circ$  ( $c = 0.2$ , MeOH). **Source:** *Prangos tschimganica* (aerial parts). **Ref:** 3552.

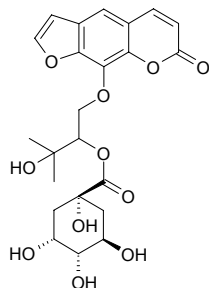
**22065 Tschimganic ester B**

$C_{23}H_{26}O_{11}$  (478.46).  $[\alpha]_D^{25} = -8.0^\circ$  ( $c = 0.2$ , MeOH). **Source:** *Prangos tschimganica* (aerial parts). **Ref:** 3552.

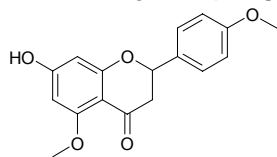


**22066 Tschimganic ester C**

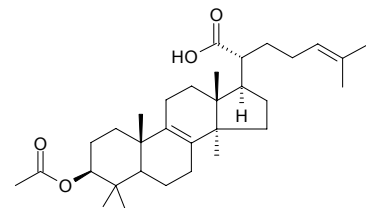
$C_{23}H_{26}O_{11}$  (478.46).  $[\alpha]_D^{25} = -8.4^\circ$  ( $c = 0.2$ , MeOH). Source: *Prangos tschimganica* (aerial parts). Ref: 3552.

**22067 Tsugafolin**

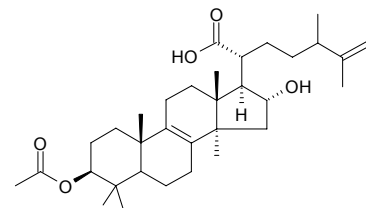
7-Hydroxy-5,4'-dimethoxyflavanone  $C_{17}H_{16}O_5$  (300.31). Prisms (EtOH), mp  $203^\circ\text{C}$  (lit. mp  $208\text{--}210^\circ\text{C}$ ),  $[\alpha]_D^{19.9} = -32.2^\circ$  ( $c = 0.310$ ,  $C_5H_5N$ );  $[\alpha]_D^{23} = +7.0^\circ$  ( $c = 0.46$ ,  $C_5H_5N$ ). Source: CHANG YE GE NA XIANG *Goniothalamus gardneri* (aerial parts). Ref: 5096.

**22068 Tsugaric acid A**

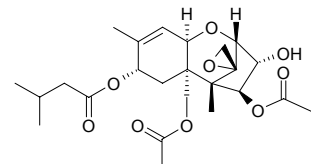
$C_{32}H_{50}O_4$  (498.75). mp  $181\text{--}182^\circ\text{C}$ ,  $[\alpha]_D = +6^\circ$ . Source: LING ZHI *Ganoderma lucidum*. Ref: 2235, 4045.

**22069 Tsugaric acid B**

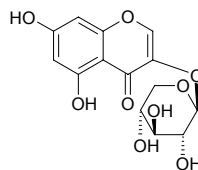
$C_{33}H_{52}O_5$  (528.78). mp  $240\text{--}242^\circ\text{C}$ ,  $[\alpha]_D = +6^\circ$ . Source: LING ZHI *Ganoderma lucidum*. Ref: 2235, 4045.

**22070 T2 Toxin**

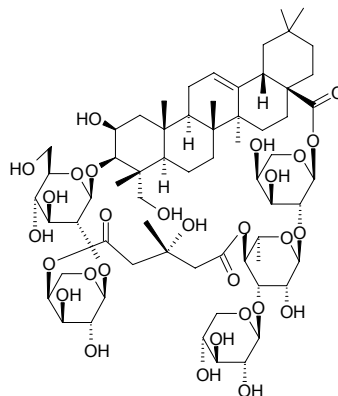
$C_{24}H_{34}O_9$  (466.54). Pharm: Irritant (to skin); supertoxic agent. Source: *Fusarium tricinctum*. Ref: 658.

**22071 3,5,7-Trihydroxychromone 3-O-β-D-xylopyranoside**

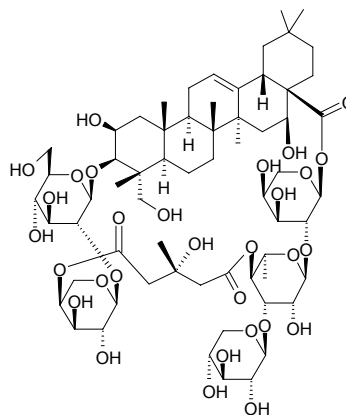
$C_{14}H_{14}O_9$  (326.26). Achromatous prisms, mp  $226\text{--}228^\circ\text{C}$ ,  $[\alpha]_D^{25} = -81.4^\circ$  ( $c = 0.07$ , MeOH). Source: MA YIN HUA *Rhododendron ovatum* [Syn. *Rhododendron lamprophyllum*; *Azalea ovata*]. Ref: 4859.

**22072 Tubeimoside A**

Tubeimoside I  $C_{63}H_{98}O_{29}$  (1319.47). Pharm: Antineoplastic (*in vivo*); cytotoxic (strong activity against cancer and cancer promoter). Source: JIA BEI MU *Bolbostemma paniculatum* (tuber: content scope of 10 batch samples =  $0.84\%\text{--}2.01\%$ <sup>[5501, 5508]</sup>; mean content =  $1.204\%$ <sup>[5508]</sup>). Ref: 658, 5501, 5508.

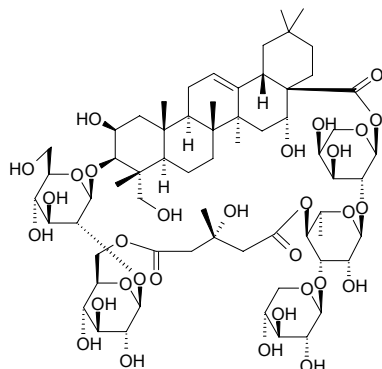
**22073 Tubeimoside B**

Tubeimoside II  $C_{63}H_{98}O_{30}$  (1335.47). Source: JIA BEI MU *Bolbostemma paniculatum*. Ref: 5501.

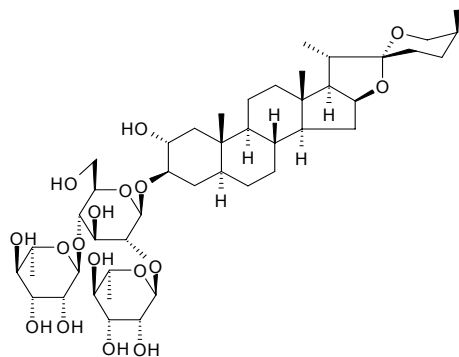


**22074 Tubeimoside C**

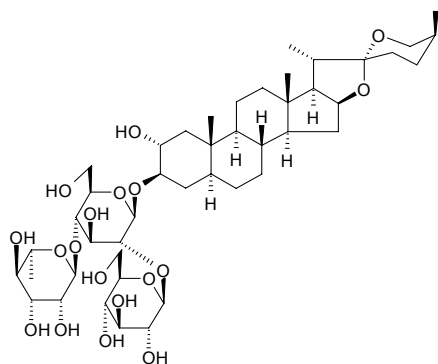
Tubeimoside III C<sub>64</sub>H<sub>100</sub>O<sub>31</sub> (1365.49). Source: JIA BEI MU *Bolbostemma paniculatum*. Ref: 5501.

**22075 Tubeimoside D**

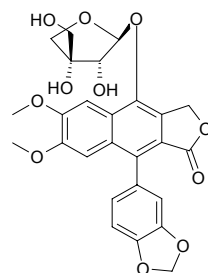
C<sub>45</sub>H<sub>74</sub>O<sub>17</sub> (887.08). Amorphous solid,  $[\alpha]_D^{24} = -31.2$  ( $c = 0.33$ , MeOH). Source: JIA BEI MU *Bolbostemma paniculatum*, JIU CAI *Allium tuberosum*. Ref: 692, 5501.

**22076 Tubeimoside E**

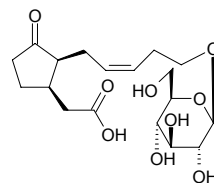
C<sub>45</sub>H<sub>74</sub>O<sub>18</sub> (903.08). Amorphous solid,  $[\alpha]_D^{24} = -29.5^\circ$  ( $c = 0.30$ , MeOH). Source: JIA BEI MU *Bolbostemma paniculatum*, JIU CAI *Allium tuberosum*. Ref: 692, 5501.

**22077 Tuberculatin**

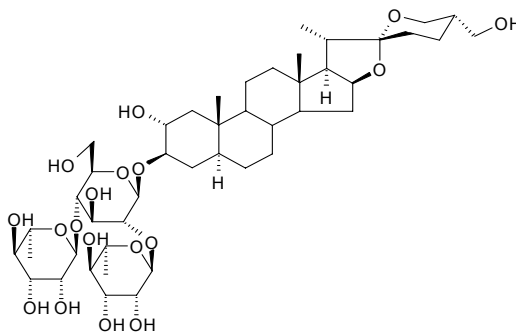
[90706-10-8] C<sub>26</sub>H<sub>24</sub>O<sub>11</sub> (512.47). Pharm: Cytotoxic (hmn LoVo Cell Line *in Vitro*, IC<sub>50</sub> = (13.92±1.26)μl/mL)<sup>[4206]</sup>; cytotoxic (*in vitro*, ED<sub>50</sub> = 0.0019μg/mL; Hep3B, ED<sub>50</sub> = 0.014μg/mL, control 5-Fluorouracil, ED<sub>50</sub> = 0.0715μg/mL; SiHa, ED<sub>50</sub> = 0.12μg/mL, control Actinomycin D, ED<sub>50</sub> = 0.00081μg/mL; HepG2, ED<sub>50</sub> = 0.040μg/mL, control 5-Fluorouracil, ED<sub>50</sub> = 0.033μg/mL; HT29, ED<sub>50</sub> = 0.29μg/mL, control 5-Fluorouracil, ED<sub>50</sub> = 0.074μg/mL; HCT116, ED<sub>50</sub> = 0.28μg/mL, control 5-Fluorouracil, ED<sub>50</sub> = 0.48μg/mL; MCF7, ED<sub>50</sub> = 0.97μg/mL; MCF7-ras, ED<sub>50</sub> = 0.090μg/mL)<sup>[4612]</sup>; enhances TNF-α formation (mouse macrophage-like TRAW264.7 cells, stimulated by LPS, strong activity)<sup>[4612]</sup>. Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*] (whole herb: yield = 0.0004%*dw*)<sup>[4612]</sup>, LIU ZHUANG DAN YE YUN XIANG *Ruta tuberculata* [Syn. *Haplophyllum tuberculatum*], *Haplophyllum patavinum* (shoot). Ref: 1521, 4206, 4612.

**22078 Tuberonic acid glucoside**

C<sub>18</sub>H<sub>28</sub>O<sub>9</sub> (388.42). Source: YOU GAN YE *Phyllanthus emblica* (leaf and branch). Ref: 4205.

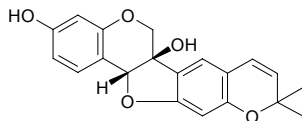
**22079 Tuberoside A**

(2α,3β,5α,25S)-2,3,27-Trihydroxyspirosterane 3-O-α-L-rhamnopyranoyl-(1→2)-O-[α-L-rhamnopyranoyl-(1→4)]-β-D-glucopyranoside C<sub>45</sub>H<sub>74</sub>O<sub>18</sub> (903.08). Amorphous powder, mp 292~293°C,  $[\alpha]_D^{25} = -33^\circ$  ( $c = 0.02$ , MeOH). Source: JIU CAI *Allium tuberosum* (seed). Ref: 5166.

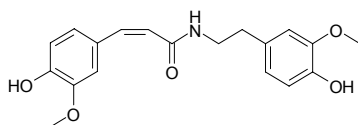


**22080 Tuberosin**

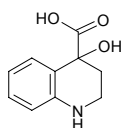
Kakkonein C<sub>20</sub>H<sub>18</sub>O<sub>5</sub> (338.36). Acicular crystals (chloroform–ethane), mp 213°C, [ $\alpha$ ]<sub>D</sub> = +216° (acetone). **Pharm:** Antibacterial (*Staphylococcus* sp., EC = 250µg/mL; *Mycobacterium tuberculosis*, EC = 125µg/mL); antifungal; anti-inflammatory (swollen foot caused by carrageenan). **Source:** GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], KUAI JING GE *Pueraria tuberosa*, MA LING SHU *Solanum tuberosum*. **Ref:** 2, 661.

**22081 Tuberosine A**

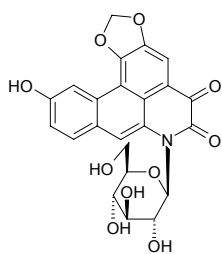
*N-cis-Feruloyl-3-methyl-dopamine* C<sub>19</sub>H<sub>21</sub>NO<sub>5</sub> (343.38). Colorless oil. **Source:** JIU ZI *Allium tuberosum*. **Ref:** 782.

**22082 Tuberosine B**

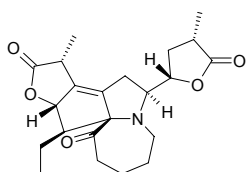
1,2,3,4-Tetrahydro-4-hydroxy-4-quinolin carboxylic acid C<sub>10</sub>H<sub>11</sub>NO<sub>3</sub> (193.20). Yellowish powder, [ $\alpha$ ]<sub>D</sub><sup>17</sup> = +3.65° (*c* = 0.62, acetone). **Source:** JIU ZI *Allium tuberosum*. **Ref:** 878.

**22083 Tuberosinone-N-β-glucoside**

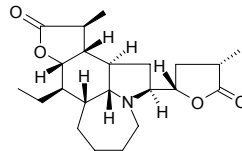
C<sub>23</sub>H<sub>19</sub>NO<sub>10</sub> (469.41). **Source:** KUAI JING MA DOU LING *Aristolochia tuberosa*. **Ref:** 660.

**22084 Tuberostemoenone**

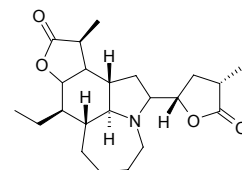
C<sub>22</sub>H<sub>29</sub>NO<sub>5</sub> (387.48). Colorless oleaginous substance. **Source:** BAI BU *Stemona tuberosa*. **Ref:** 673.

**22085 Tuberostemonine**

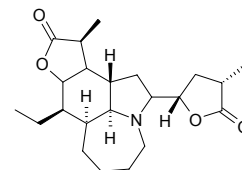
[6879-01-2] C<sub>22</sub>H<sub>33</sub>NO<sub>4</sub> (375.51). mp 86–88°C. **Source:** BAI BU *Stemona tuberosa* (in 1934, the compound was isolated from the plant)<sup>[5505]</sup>, ZHI LI BAI BU *Stemona sessilifolia*. **Ref:** 6, 660, 5505.

**22086 Tuberostemonine H**

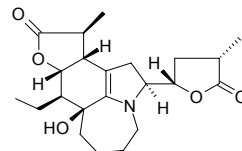
C<sub>22</sub>H<sub>33</sub>NO<sub>4</sub> (375.51). mp 183–185°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +77.6° (*c* = 0.1, MeOH). **Pharm:** Antitussive (guinea pig cough model, 133µmol/kg ip, cough InRt = 57%, *p* < 0.05). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 5463.

**22087 Tuberostemonine J**

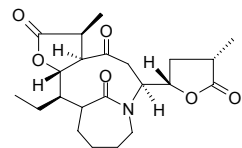
C<sub>22</sub>H<sub>33</sub>NO<sub>4</sub> (375.51). mp 180–182°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +36.4° (*c* = 0.1, MeOH). **Pharm:** Antitussive (guinea pig cough model, 133µmol/kg ip, cough InRt = 45%, *p* < 0.05). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 5463.

**22088 Tuberostemonol**

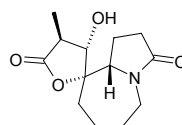
C<sub>22</sub>H<sub>31</sub>NO<sub>5</sub> (389.50). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 660.

**22089 Tuberostemonone**

C<sub>22</sub>H<sub>31</sub>NO<sub>6</sub> (405.50). Colorless prismatic crystals. **Source:** BAI BU *Stemona tuberosa*. **Ref:** 660, 673.

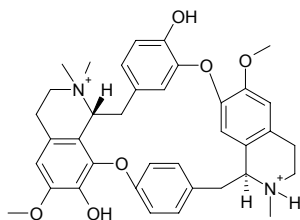
**22090 Tuberostemospirine**

C<sub>13</sub>H<sub>19</sub>NO<sub>4</sub> (253.30). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 660.

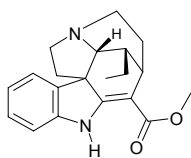


**22091 (+)-Tubocurarine**

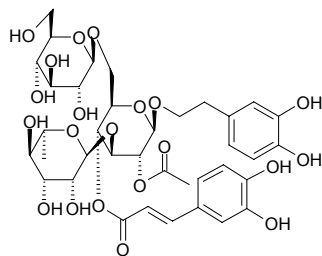
$C_{37}H_{42}N_2O_6^{2+}$  (610.76). **Pharm:** Skeletal muscle relaxant. **Source:** NAN MEI FANG JI *Chondrodendron tomentosum*. **Ref:** 658, 1521.

**22092 20(S)-Tubotaiwine**

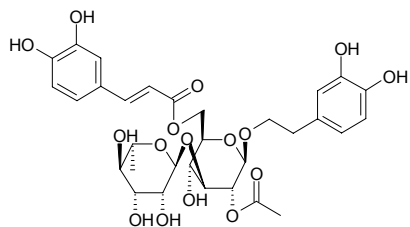
$C_{20}H_{24}N_2O_2$  (324.43). **Source:** XIANG PI MU *Alstonia scholaris* (leaf). **Ref:** 5283.

**22093 Tubuloside A**

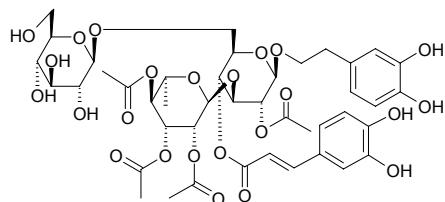
$C_{37}H_{48}O_{21}$  (828.78). **Source:** ROU CONG RONG *Cistanche deserticola*, GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**22094 Tubuloside B**

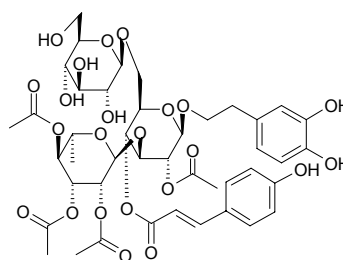
[112516-04-8]  $C_{31}H_{38}O_{16}$  (666.64). **Pharm:** inhibits onset of senility (rat, hepatic microsome,  $Fe^{2+}/VC$ -induced lipid peroxidation  $IC_{50} = 8.6\text{mmol/L}$ ,  $Fe^{3+}/ADP/NADPH$ -induced lipid peroxidation  $IC_{50} = 28.0\text{mmol/L}$ ; free radical scavenger). **Source:** ROU CONG RONG *Cistanche deserticola*. **Ref:** 717, 1707.

**22095 Tubuloside C**

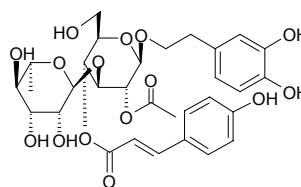
$C_{43}H_{54}O_{24}$  (954.90). **Source:** GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**22096 Tubuloside D**

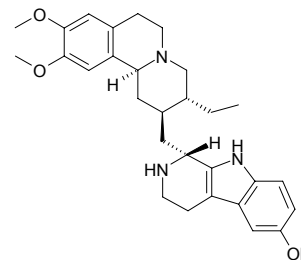
$C_{43}H_{54}O_{23}$  (938.90). **Source:** GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**22097 Tubuloside E**

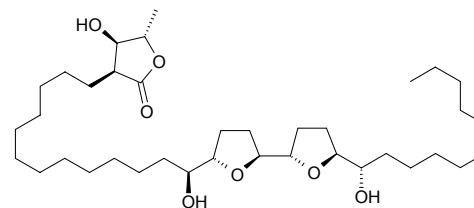
$C_{31}H_{38}O_{15}$  (650.64). **Source:** GUAN HUA ROU CONG RONG *Cistanche tubulosa*. **Ref:** 2448.

**22098 Tubulosine**

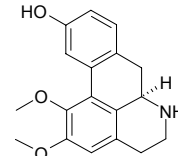
$C_{29}H_{37}N_3O_3$  (475.64). **Pharm:** Antiamebic; antineoplastic; supertoxic agent. **Source:** TU GEN *Cephaelis ipecacuanha*. **Ref:** 658.

**22099 Tucumanin**

$C_{37}H_{68}O_7$  (624.95). **Wax.** **Pharm:** Mitochondrial complex I selective inhibitor (NADH oxidase  $IC_{50} = (0.57 \pm 0.07)\text{nmol/L}$ ,  $p < 0.001$ , control Rotenone,  $IC_{50} = (5.10 \pm 0.09)\text{nmol/L}$ ). **Source:** MAO YE FAN LI ZHI *Annona cherimolia* (seed). **Ref:** 5024.

**22100 Tuduranine**

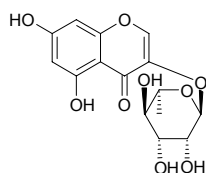
$C_{18}H_{19}NO_3$  (297.36). **Source:** QING FENG TENG *Sinomenium acutum*. **Ref:** 6.





**22101 Tufulingoside**

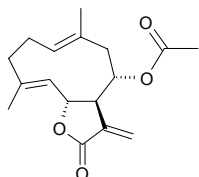
5,7-Dihydroxy-chromone-3- $\alpha$ -L-rhamnopyranoside C<sub>15</sub>H<sub>16</sub>O<sub>9</sub> (340.29). Yellowish clustered crystals (MeOH-CHCl<sub>3</sub>), mp 227~229°C. Source: TU FU LING *Smilax glabra*. Ref: 499.

**22102 Tulipalin**

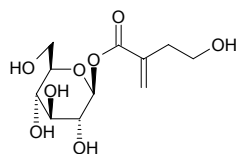
Tulipalin A [547-65-9] C<sub>5</sub>H<sub>6</sub>O<sub>2</sub> (98.10). mp 85~86°C. Source: YU JIN XIANG *Tulipa gesneriana*. Ref: 5.

**22103 Tulipinolide**

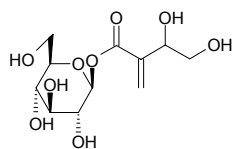
[24164-12-3] C<sub>17</sub>H<sub>22</sub>O<sub>4</sub> (290.36). mp 181°C (dec). Pharm: Cytotoxic (KB, ED<sub>50</sub> = 0.46µg/mL). Source: BEI MEI E ZHANG QIU *Liriodendron tulipifera*, MO XI GE HAO *Artemisia mexicana* var. *angustifolia*, SHE TAI *Conocephalum conicum*, *Pyrethrum* sp. Ref: 5.

**22104 Tuliposide A**

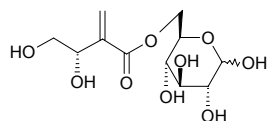
C<sub>11</sub>H<sub>18</sub>O<sub>8</sub> (278.26). Pharm: Allergen; antifungal. Source: YU JIN XIANG ZA JIAO ZHONG *Tulipa hybrida*, YU JIN XIANG *Tulipa gesneriana*. Ref: 6, 658.

**22105 Tuliposide B**

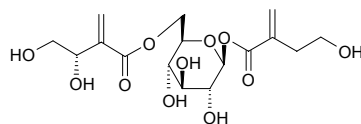
C<sub>11</sub>H<sub>18</sub>O<sub>9</sub> (294.26). Pharm: Allergen; antifungal. Source: YU JIN XIANG ZA JIAO ZHONG *Tulipa hybrida*, YU JIN XIANG *Tulipa gesneriana*. Ref: 6, 658.

**22106 6-Tuliposide B**

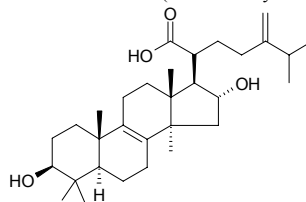
6-((S)-3,4-Dihydroxy-2-methylenebutanoate)-D-glucopyranose C<sub>11</sub>H<sub>18</sub>O<sub>9</sub> (294.26). Syrup. Source: TU ER QI YU JIN XIANG *Tulipa turkestanii*. Ref: 2330.

**22107 Tuliposide F**

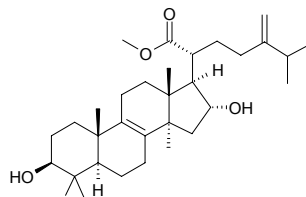
1-(4-Hydroxy-2-methylenebutanoate)-6-((S)-3,4-dihydroxy-2-methylenebutanoate)- $\beta$ -D-glucopyranose C<sub>16</sub>H<sub>24</sub>O<sub>11</sub> (392.36). Syrup. Source: TU ER QI YU JIN XIANG *Tulipa turkestanii*. Ref: 2330.

**22108 Tumulosic acid**

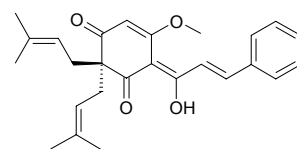
C<sub>31</sub>H<sub>50</sub>O<sub>4</sub> (486.74). mp 306°C (dec). Pharm: Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound  $\beta$ -Carotene, relative percentage = 8.6%)<sup>[4616]</sup>. Source: FU LING *Poria cocos* (sclerotium: yield = 0.00025%dw)<sup>[4616]</sup>. Ref: 2, 6, 4616.

**22109 Tumulosic acid methyl ester**

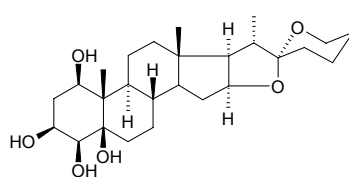
C<sub>32</sub>H<sub>52</sub>O<sub>4</sub> (500.77). Source: FU LING *Poria cocos*. Ref: 660.

**22110 Tunicatachalcone**

3',3'-Di-( $\gamma,\gamma$ -dimethylallyl)-2',4'-di-oxo-enolchalcone C<sub>26</sub>H<sub>30</sub>O<sub>4</sub> (406.53). mp 68~69°C. Source: BAO MO HUI MAO DOU *Tephrosia tunicata* Ref: 5109.

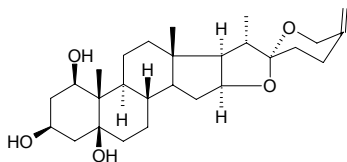
**22111 Tupichigenin D**

Spirost-25(27)-en-1 $\beta$ ,3 $\alpha$ ,4 $\beta$ ,5 $\beta$ -tetraol C<sub>27</sub>H<sub>42</sub>O<sub>6</sub> (462.63). White amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>24</sup> = -83.6° (c = 0.16, CHCl<sub>3</sub>). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

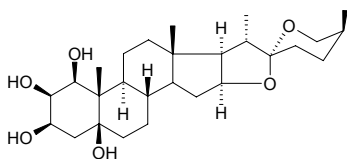


**22112 Tupichigenin E**

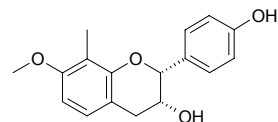
Spirost-25(27)-en-1 $\beta$ ,3 $\beta$ ,5 $\beta$ -triol C<sub>27</sub>H<sub>42</sub>O<sub>5</sub> (446.63). White amorphous powder,  $[\alpha]_D^{24} = -24.4^\circ$  ( $c = 0.18$ , CHCl<sub>3</sub>). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

**22113 Tupichigenin F**

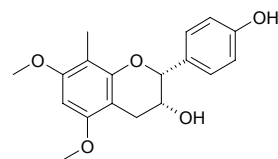
(25S)-Spirost-1 $\beta$ ,2 $\beta$ ,3 $\beta$ ,5 $\beta$ -tetraol C<sub>27</sub>H<sub>44</sub>O<sub>6</sub> (464.65). White amorphous powder,  $[\alpha]_D^{24} = -61.8^\circ$  ( $c = 0.17$ , CHCl<sub>3</sub>). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

**22114 Tupichinol A**

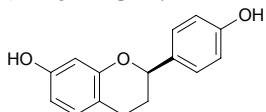
(2*R*,3*R*)-3,4'-Dihydroxy-7-methoxy-8-methylflavan C<sub>17</sub>H<sub>18</sub>O<sub>4</sub> (286.33). Colorless prisms (EtOAc), mp 141~142°C,  $[\alpha]_D^{24} = -40.1^\circ$  ( $c = 0.034$ , MeOH). Pharm: Cytotoxic (*in vitro*, hmh gastric tumor cell NUGC, 50 $\mu$ mol/L, InRt = 80%)<sup>[4676]</sup>. Source: KAI KOU JIAN *Tupistra chinensis* (underground part: yield = 0.083%dw). Ref: 4676.

**22115 Tupichinol B**

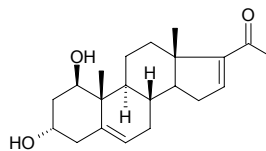
(2*R*,3*R*)-3,4'-Dihydroxy-5,7-dimethoxy-8-methylflavan C<sub>18</sub>H<sub>20</sub>O<sub>5</sub> (316.36). Colorless prisms (CHCl<sub>3</sub>-MeOH), mp 158~159°C,  $[\alpha]_D^{24} = -64.5^\circ$  ( $c = 0.048$ , MeOH). Source: KAI KOU JIAN *Tupistra chinensis* (underground part: yield = 0.066%dw). Ref: 4676.

**22116 Tupichinol C**

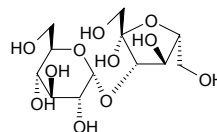
(2*R*)-7,4'-Dihydroxyflavan C<sub>15</sub>H<sub>14</sub>O<sub>3</sub> (242.28). Colorless plates,  $[\alpha]_D^{24} = +190.0^\circ$  ( $c = 0.04$ , CHCl<sub>3</sub>). Source: KAI KOU JIAN *Tupistra chinensis* (underground part: yield = 0.007%dw). Ref: 4676.

**22117 Tupipregnenolone**

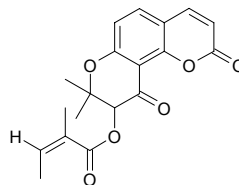
1 $\beta$ ,3 $\alpha$ -Dihydroxypregna-5,16-dien-20-one C<sub>21</sub>H<sub>30</sub>O<sub>3</sub> (330.47). White amorphous solid,  $[\alpha]_D^{24} = -19.3^\circ$  ( $c = 0.88$ , CHCl<sub>3</sub>). Source: KAI KOU JIAN *Tupistra chinensis* (underground part). Ref: 4676.

**22118 Turanose**

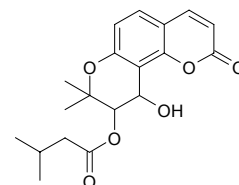
3-*O*- $\alpha$ -D-Glucopyranosyl- $\beta$ -D-fructopyranose [58166-22-6] C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> (342.30). mp 157°C (dec). Source: KUAN YE XIANG PU *Typha latifolia*. Ref: 6, 660.

**22119 Turgeniifolin A**

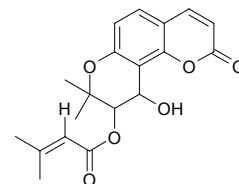
C<sub>19</sub>H<sub>18</sub>O<sub>6</sub> (342.35). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

**22120 Turgeniifolin B**

C<sub>19</sub>H<sub>22</sub>O<sub>6</sub> (346.38). Colorless needles (petroleum ether), mp 132~134°C,  $[\alpha]_D^{12} = 0^\circ$  ( $c = 0.51$ , CHCl<sub>3</sub>). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

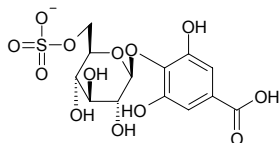
**22121 Turgeniifolin C**

C<sub>19</sub>H<sub>20</sub>O<sub>6</sub> (344.37). Colorless needles (petroleum ether), mp 202~203°C,  $[\alpha]_D^{12} = 0^\circ$  ( $c = 0.23$ , CHCl<sub>3</sub>). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

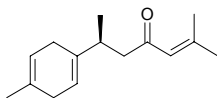


**22122 Turgorin**

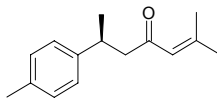
$C_{13}H_{15}O_{13}S^-$  (411.33). **Pharm:** Phytohormone. **Source:** CI HUAI HUA *Robinia pseudoacacia*, HAN XIU CAO *Mimosa pudica*, KA LUO JIN HE HUAN *Acacia karroo*, SAN CI ZAO JIA *Gleditsia triacanthos*, SHAN ZUO JIANG CAO *Oxalis acetosella*. **Ref:** 658.

**22123 Turmerone**

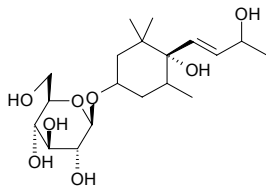
$\beta$ -Turmerone  $C_{15}H_{22}O$  (218.34). bp 159–160°C/10mmHg. **Pharm:** Anti-inflammatory (RAW264.7 cells, inhibits LPS-induced PGE<sub>2</sub> production)<sup>[44151]</sup>. **Source:** JIANG HUANG *Curcuma longa*, YU JIN *Curcuma aromatica*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 6, 660, 4415.

**22124 (+)-ar-Turmerone**

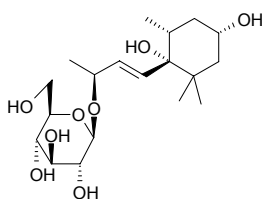
$C_{15}H_{20}O$  (216.33). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μmol/L, InRt = (52.9±2.8)%), control *L*-NMMA, 100 μmol/L, InRt = (79.2±0.9)%,  $p < 0.01$ )<sup>[4150]</sup>; anti-inflammatory (RAW264.7 cells, inhibits LPS-induced PGE<sub>2</sub> production)<sup>[44151]</sup>. **Source:** JIANG HUANG *Curcuma longa*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 660, 4150, 4415.

**22125 Turpinionoside A**

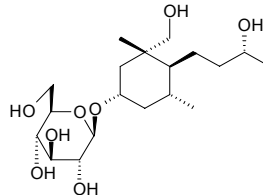
(3*S*,5*R*,6*S*,9*S*)-3,6,9-Trihydroxymegastigman-7-ene 3-*O*- $\beta$ -*D*-glucopyranoside  $C_{19}H_{34}O_8$  (390.48). Amorphous powder,  $[\alpha]_D^{22} = -38.4^\circ$  ( $c = 0.86$ , MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf). **Ref:** 4188.

**22126 Turpinionoside B**

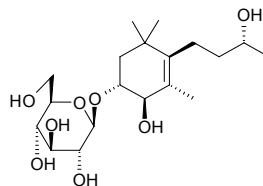
(3*S*,5*R*,6*S*,9*S*)-3,6,9-Trihydroxymegastigman-7-ene 9-*O*- $\beta$ -*D*-glucopyranoside  $C_{19}H_{34}O_8$  (390.48). Amorphous powder,  $[\alpha]_D^{22} = -76.3^\circ$  ( $c = 0.77$ , MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf), YAO YONG HEI MIAN SHEN YE *Breynia officinalis* (leaf). **Ref:** 2583, 4188.

**22127 Turpinionoside C**

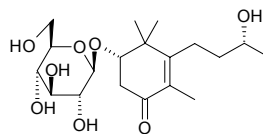
(1*S*,3*S*,5*R*,6*S*,9*R*)-3,9,12-Trihydroxymegastigmane 3-*O*- $\beta$ -*D*-glucopyranoside  $C_{19}H_{36}O_8$  (392.49). Amorphous powder,  $[\alpha]_D^{22} = -17.3^\circ$  ( $c = 0.87$ , MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf). **Ref:** 4188.

**22128 Turpinionoside D**

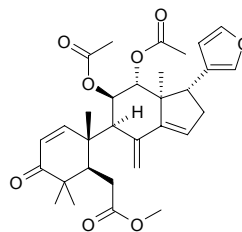
(3*S*,4*R*,9*R*)-3,4,6-Trihydroxymegastigman-5-ene 3-*O*- $\beta$ -*D*-glucopyranoside  $C_{19}H_{34}O_8$  (390.48). Amorphous powder,  $[\alpha]_D^{22} = -58.6^\circ$  ( $c = 0.43$ , MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf). **Ref:** 4188.

**22129 Turpinionoside E**

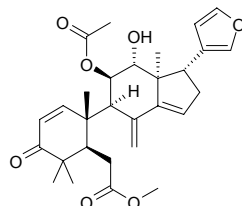
(2*S*,9*R*)-2,9-Dihydroxymegastigman-5-en-4-one 2-*O*- $\beta$ -*D*-glucopyranoside  $C_{19}H_{32}O_8$  (388.46). Amorphous powder,  $[\alpha]_D^{22} = -9.7^\circ$  ( $c = 0.21$ , MeOH). **Source:** SAN CHU SHAN XIANG YUAN *Turpinia ternata* (leaf). **Ref:** 4188.

**22130 Turraflorin A**

$C_{31}H_{38}O_8$  (538.64). White crystals, mp 142–144°C,  $[\alpha]_D = +17^\circ$  ( $c = 0.071$ ,  $CHCl_3$ ). **Source:** DUO HUA U LIAN *Turraea floribunda* (seed). **Ref:** 3819.

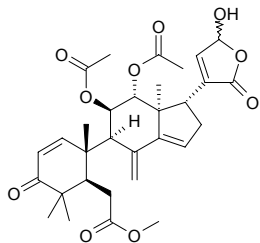
**22131 Turraflorin B**

$C_{20}H_{36}O_7$  (496.61). White crystals, mp 139–142°C,  $[\alpha]_D = +89^\circ$  ( $c = 0.178$ ,  $CHCl_3$ ). **Source:** DUO HUA U LIAN *Turraea floribunda* (seed). **Ref:** 3819.

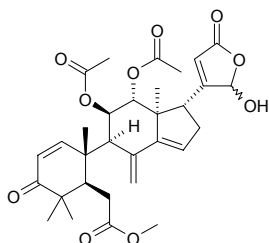


**22132 Turraflorin D**

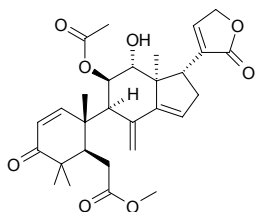
$C_{31}H_{38}O_{10}$  (570.64). Amorphous. Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22133 Turraflorin E**

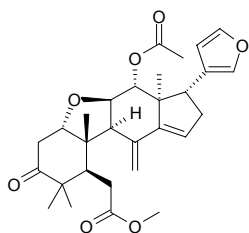
$C_{31}H_{38}O_{10}$  (570.64). Yellow amorphous. Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22134 Turraflorin F**

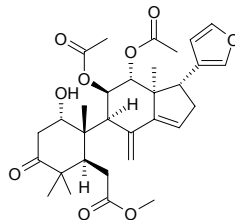
$C_{29}H_{36}O_8$  (512.61). Pale yellow amorphous,  $[\alpha]_D = +97^\circ$  ( $c = 0.092$ ,  $CHCl_3$ ). Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22135 Turraflorin G**

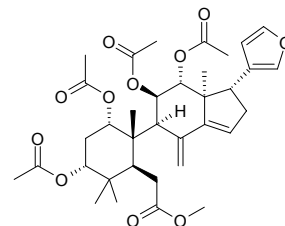
$C_{29}H_{36}O_7$  (496.61). White crystals, mp 122~124°C ( $CH_2Cl_2-CH_3OH$ ),  $[\alpha]_D = +77^\circ$  ( $c = 0.218$ ,  $CHCl_3$ ). Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22136 Turraflorin H**

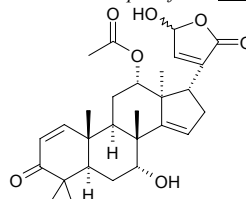
$C_{31}H_{40}O_9$  (556.66). Fine white crystals, mp 134~135°C,  $[\alpha]_D = +23^\circ$  ( $c = 0.119$ ,  $CHCl_3$ ). Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22137 Turraflorin I**

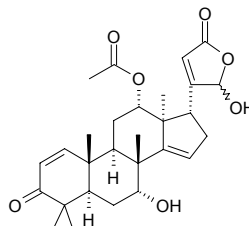
$C_{35}H_{46}O_{11}$  (642.75). Fine white crystals, mp 143~145°C ( $CH_2Cl_2-CH_3OH$ ),  $[\alpha]_D = +14^\circ$  ( $c = 0.074$ ,  $CHCl_3$ ). Source: DUO HUA U LIAN *Turraea floribunda* (seed). Ref: 3819.

**22138 Turraparvin A**

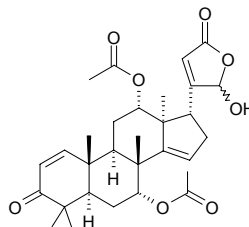
$C_{28}H_{36}O_7$  (484.59). White crystals, mp 108~110°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

**22139 Turraparvin B**

$C_{28}H_{36}O_7$  (484.59). White crystals, mp 142~144°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

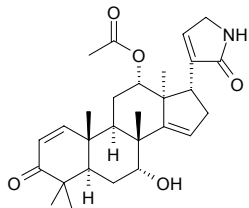
**22140 Turraparvin C**

$C_{30}H_{38}O_8$  (526.63). White crystals, mp 117~119°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

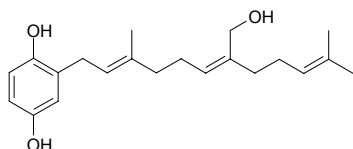


**22141 Turraparvin D**

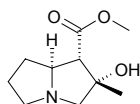
$C_{28}H_{37}NO_5$  (467.61). White crystals, mp 131~133°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.

**22142 Turricolol E**

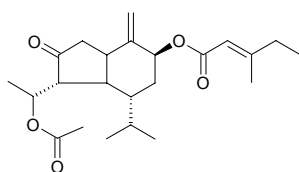
$C_{21}H_{30}O_3$  (330.47). Pharm: Dermatitic (causes contact dermatitis). Source: family Hydrophyllaceae spp. Ref: 658.

**22143 Tussilagine**

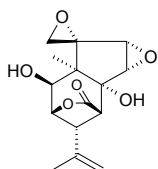
$C_{10}H_{17}NO_3$  (199.25). Source: KUAN DONG HUA *Tussilago farfara*. Ref: 660.

**22144 Tussilagone**

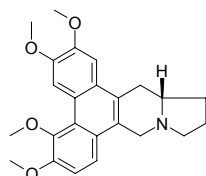
Tussilagin [80489-85-6]  $C_{23}H_{34}O_5$  (390.52). White pillar crystals, mp 100~102°C. Pharm: Increases blood pressure (cat, spinal cord iv, 0.2mg/kg, blood pressure is increased by (16.6±3.5)kPa ((125±27)mmHg); cat, vertebral artery ia, 0.02mg/kg, blood pressure is lowered by (1.73±0.4)kPa ((13±3)mmHg), respiratory stimulant); Contracts blood vessels (dog, stronger than dopamine, increases blood pressure of hemorrhagic shock for long time); calcium antagonist ( $IC_{50} = 1\mu\text{g/mL}$ ); platelet aggregation inhibitor (due to PAF). Source: KUAN DONG HUA *Tussilago farfara*. Ref: 660, 1092, 1178, 5501.

**22145 Tutin**

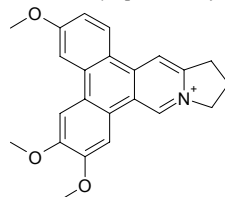
$C_{15}H_{18}O_6$  (294.31). mp 211~213°C. Pharm: CNS activity (stimulates cerebral respiration center, vasomotor center and cardiac inhibitory center). Source: MA SANG *Coriaria sinica* [Syn. *Coriaria nepalensis*], MA SANG YE *Coriaria sinica* [Syn. *Coriaria nepalensis*], RI BEN MA SANG *Coriaria japonica* (seed), XIA MA SANG *Coriaria angustissima*, *Coriaria* sp. Ref: 4, 6, 658, 4497.

**22146 Tylocrebrine**

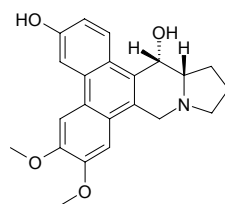
$C_{24}H_{27}NO_4$  (393.49). mp (-) 218~220°C (dec). Pharm: Antiamebic; antineoplastic (*L*-tylocrebrine, adenocarcinoma 755, lymphatic sarcoma, KB, P<sub>388</sub> and L<sub>1210</sub>); toxin (hmn); vesicant. Source: MI HUA WA ER TENG *Tylophora crebriflora*, WA ER TENG *Tylophora floribunda*. Ref: 6, 658.

**22147 Tylophoridicine C**

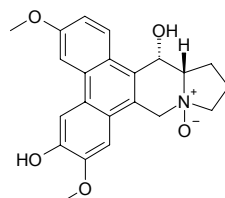
$C_{23}H_{22}NO_3^+$  (360.44). Yellow amorphous powder, mp 295~310°C,  $[\alpha]_D^{16} = +0.5^\circ$  ( $c = 1.0$ , MeOH). Pharm: Cytotoxic (*in vitro*, KB cell,  $IC_{50} > 25.00\mu\text{mol/L}$ , control Adriamycin,  $IC_{50} = (0.40\pm 0.12)\mu\text{mol/L}$ ; HCT8 cell,  $IC_{50} = (8.09\pm 3.40)\mu\text{mol/L}$ , Adriamycin,  $IC_{50} = (0.20\pm 0.11)\mu\text{mol/L}$ ). Source: SAN FEN DAN *Tylophora atrofoliculata* (root). Ref: 4974.

**22148 Tylophoridicine D**

$C_{22}H_{23}NO_4$  (365.43). Brown amorphous solid (CHCl<sub>3</sub>-MeOH), mp 225~226°C,  $[\alpha]_D^{16} = +21.0^\circ$  ( $c = 0.74$ , CHCl<sub>3</sub>). Pharm: Cytotoxic (*in vitro*, KB cell,  $IC_{50} < 0.01\mu\text{mol/L}$ , control Adriamycin,  $IC_{50} = (0.40\pm 0.12)\mu\text{mol/L}$ ; HCT8 cell,  $IC_{50} < 0.01\mu\text{mol/L}$ , Adriamycin,  $IC_{50} = (0.20\pm 0.11)\mu\text{mol/L}$ ). Source: SAN FEN DAN *Tylophora atrofoliculata* (root). Ref: 4974.

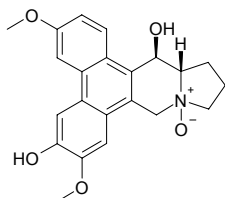
**22149 Tylophoridicine E**

$C_{22}H_{23}NO_5$  (381.43). White powder(CHCl<sub>3</sub>), mp 234~237°C,  $[\alpha]_D^{16} = +17.1^\circ$  ( $c = 0.37$ , CHCl<sub>3</sub>). Pharm: Cytotoxic (*in vitro*, KB cell,  $IC_{50} > 25.00\mu\text{mol/L}$ , control Adriamycin,  $IC_{50} = (0.40\pm 0.12)\mu\text{mol/L}$ ; HCT8 cell,  $IC_{50} = (11.54\pm 4.67)\mu\text{mol/L}$ , Adriamycin,  $IC_{50} = (0.20\pm 0.11)\mu\text{mol/L}$ ). Source: SAN FEN DAN *Tylophora atrofoliculata* (root). Ref: 4974.

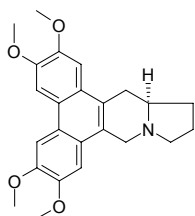


**22150 Tylophoridicine F**

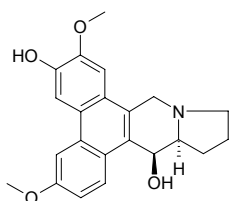
$C_{22}H_{23}NO_5$  (381.43). White solid( $CHCl_3$ ), mp 214~217°C,  $[\alpha]_D^{16} = -17.0^\circ$  ( $c = 0.40$ ,  $CHCl_3$ ). **Pharm:** Cytotoxic (*in vitro*, KB cell,  $IC_{50} = (18.99 \pm 4.02)\mu mol/L$ , control Adriamycin,  $IC_{50} = (0.40 \pm 0.12)\mu mol/L$ ; HCT8 cell,  $IC_{50} > 25.00\mu mol/L$ , Adriamycin,  $IC_{50} = (0.20 \pm 0.11)\mu mol/L$ ). **Source:** SAN FEN DAN *Tylophora atrofoliculata* (root). **Ref:** 4974.

**22151 Tylophorine**

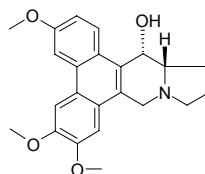
[482-20-2]  $C_{24}H_{27}NO_4$  (393.49). mp 292°C (dec). **Pharm:** Antineoplastic; inhibits biosynthesis of protein; anti-inflammatory (rat, swollen foot model caused by carrageenan, tampon granuloma model); CNS depressant; toxin (high toxicity for frog, low toxicity for higher animals); used in treatment of trachitis and dysentery. **Source:** FU YE RONG *Ficus septica*, MI HUA WA ER TENG *Tylophora crebriflora*, WA ER TENG *Tylophora floribunda*, YAO YONG BAI QIAN *Vincetoxicum officinale* [Syn. *Cynanchum vincetoxicum*], YIN DU WA ER TENG *Tylophora asthmatica* [Syn. *Tylophora indica*]. **Ref:** 4, 658.

**22152 Tylophorinidine**

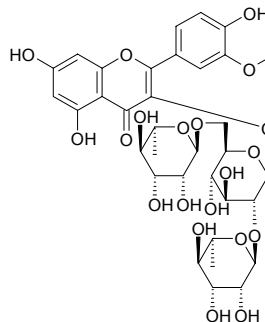
$C_{22}H_{23}NO_4$  (365.43). mp 213~214°C (dec),  $[\alpha]_D^{25} = +108^\circ$  ( $c = 1.91$ , methanol). white lamellar crystals (chloroform–acetone–methanol), mp 219~222°C (dec),  $[\alpha]_D^{29} = -139.6^\circ$  ( $c = 0.8$ , chloroform). **Pharm:** Antineoplastic. **Source:** LUAN YE WA ER TENG *Tylophora ovata*, MIAN MAO WA ER TENG *Tylophora mollissima*, SAN FEN DAN *Tylophora atrofoliculata*, YIN DU WA ER TENG *Tylophora asthmatica* [Syn. *Tylophora indica*]. **Ref:** 658.

**22153 Tylophorinine**

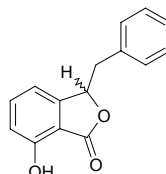
$C_{23}H_{25}NO_4$  (379.46). mp 248~249°C. **Pharm:** Antineoplastic; inhibits cardiac muscles; stimulates striated muscles and smooth muscles; toxin (high toxicity for paramecia, low toxicity for higher animals); used in treatment of trachitis and dysentery. **Source:** LUAN YE WA ER TENG *Tylophora ovata*, MI HUA WA ER TENG *Tylophora crebriflora*, MIAN MAO WA ER TENG *Tylophora mollissima*, SAN FEN DAN *Tylophora atrofoliculata*, WA ER TENG *Tylophora floribunda*, YIN DU WA ER TENG *Tylophora asthmatica* [Syn. *Tylophora indica*]. **Ref:** 5, 658, 1521.

**22154 Typhaneoside**

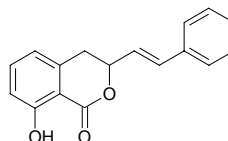
Isorhamnetin-3-*O*-(2<sup>G</sup>- $\alpha$ -L-rhamnopyranosyl)- $\alpha$ -L-rhamnopyranosyl-(1→6)- $\beta$ -D-glucopyranoside  $C_{34}H_{42}O_{20}$  (770.70). Yellow amorphous powder, mp 148~150°C,  $[\alpha]_D^{20} = -58^\circ$  ( $c = 1.3$ , methanol), easily soluble in water, methanol; soluble in ethanol; slightly soluble in acetone and acetic ester. **Source:** JIN ZHAN JU *Calendula officinalis*, KUAN YE XIANG PU *Typha latifolia* (dried pollen: content = 0.214%)<sup>[5508]</sup>, PU HUANG *Typha angustata* (dried pollen: content = 0.293%)<sup>[5508]</sup>, XIA YE XIANG PU *Typha angustifolia*. **Ref:** 55, 660, 5508.

**22155 Typhaphthalide**

7-Hydroxy-3-benzylphthalide  $C_{15}H_{12}O_3$  (240.26). mp 75~77°C,  $[\alpha]_D^{25} = -9.2^\circ$  ( $c = 0.136$ , MeOH). **Source:** HAO WANG JIAO XIANG PU *Typha capensis*. **Ref:** 1939.

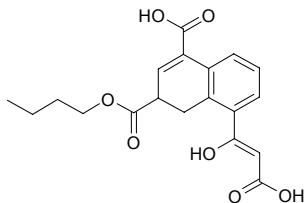
**22156 Typharin**

$C_{17}H_{14}O_3$  (266.30). Yellow solid,  $[\alpha]_D^{25} = +3.6^\circ$  ( $c = 0.07$ , MeOH). **Source:** HAO WANG JIAO XIANG PU *Typha capensis*. **Ref:** 1939.

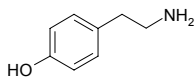


**22157 Typhic acid**

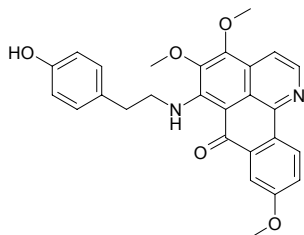
$C_{19}H_{20}O_7$  (360.37). White massive crystals, mp 248–250°C. Source: PU HUANG *Typha angustata*. Ref: 2, 80, 660.

**22158 Tyramine**

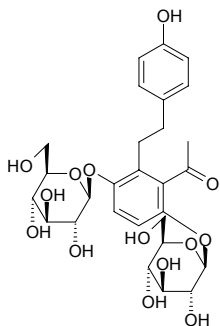
[51-67-2]  $C_8H_{11}NO$  (137.18). mp 164.0–164.5°C. Pharm: Antifungal; radioprotector (rat); parasymphomimetic; respiratory center stimulant. Source: AN LU LONG SHE LAN *Lophophora williamsii*, BAI QU CAI *Chelidonium majus*, DUO HUA HEI MAI CAO *Lolium multiflorum*, GE CONG *Allium victorialis*, JI CAI *Capsella bursa-pastoris*, JIANG *Glycine max*, LUAN YE HU JI SHENG *Viscum album*, MAI JIAO *Claviceps purpurea*, MAI YA *Hordeum vulgare*, MAO MAN TUO LUO HUA *Datura innoxia*, MAO MAN TUO LUO YE *Datura innoxia*, SHUI FEI JI *Silybum marianum*, YE HUA HUI MAO DOU *Tephrosia noctiflora*, YE ZHI MA *Lamium barbatum*. Ref: 6, 658, 660.

**22159 Tyraminoporphine**

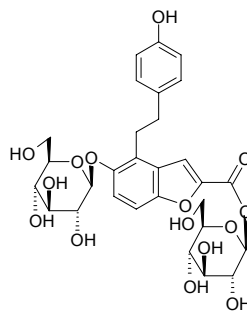
$C_{27}H_{24}N_2O_5$  (456.50). mp 229°C (dec). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 2402.

**22160 Tyrolobibenzyll E**

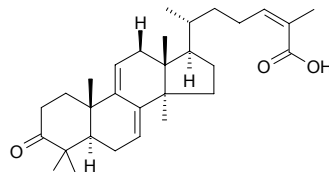
$C_{28}H_{36}O_{14}$  (596.59). Amorphous solid. Source: AI SHENG YA CONG *Scorzonera humilis*. Ref: 2067.

**22161 Tyrolobibenzyll F**

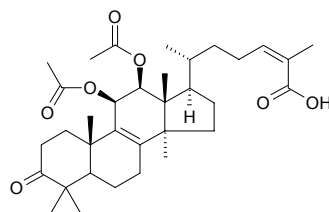
$C_{29}H_{34}O_{15}$  (622.59). Amorphous solid. Source: AI SHENG YA CONG *Scorzonera humilis*. Ref: 2067.

**22162 Tyromycic acid**

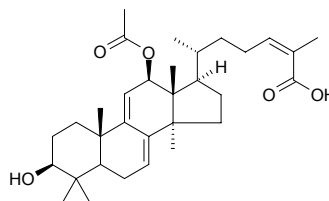
$C_{30}H_{44}O_3$  (452.68). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp). Ref: 4414.

**22163 Tyromycic acid B**

(24Z)-3-Oxo-11R,12S-diacetoxylanosta-8,24-dien-26-oic acid  $C_{34}H_{50}O_7$  (570.55). Oil,  $[\alpha]_D^{20} = -9.6^\circ$  ( $c = 0.1$ ,  $CHCl_3$ ). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp; yield = 0.083%dw). Ref: 3008.

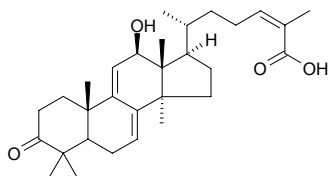
**22164 Tyromycic acid C**

3β-Hydroxy-12β-acetoxylanosta-7,9(11),24(Z)-trien-26-oic acid  $C_{32}H_{48}O_5$  (512.74). Oil,  $[\alpha]_D^{20} = -53.1^\circ$  ( $c = 0.11$ ,  $CHCl_3$ ). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp; yield = 0.0072%dw). Ref: 3008.

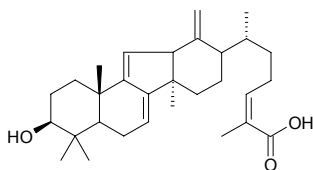


**22165 Tyromyic acid D**

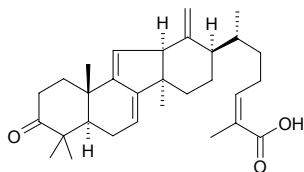
3-Oxo-12 $\beta$ -hydroxy lanosta-7,9(11),24(Z)-trien-26-oic acid C<sub>30</sub>H<sub>44</sub>O<sub>4</sub> (468.68). Oil, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -52.2° (*c* = 0.1, CHCl<sub>3</sub>). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp: yield = 0.036%dw). Ref: 3008.

**22166 Tyromyic acid E**

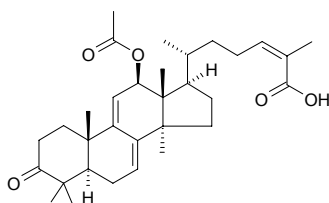
(24Z)-3 $\beta$ -Hydroxy-14(13 $\rightarrow$ 12)abeo-lanosta-7,9(11),13(18),24-tetraen-26-oic acid C<sub>30</sub>H<sub>44</sub>O<sub>3</sub> (452.68). Oil, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -94.3° (*c* = 0.11, CHCl<sub>3</sub>). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp: yield = 0.077%dw). Ref: 3008.

**22167 Tyromyic acid F**

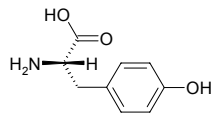
(24Z)-3-Oxo-14(13 $\rightarrow$ 12)abeo-lanosta-7,9(11),13(18),24-tetraen-26-oic acid C<sub>30</sub>H<sub>42</sub>O<sub>3</sub> (450.67). Oil, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -103.1° (*c* = 0.1, CHCl<sub>3</sub>). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp). Ref: 4414.

**22168 Tyromyic acid G**

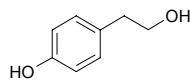
(24Z)-12 $\beta$ -Acetyloxylanosta-7,9(11),24-trien-26-oic acid C<sub>32</sub>H<sub>46</sub>O<sub>5</sub> (510.72). Oil, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -99.1° (*c* = 0.08, CHCl<sub>3</sub>). Source: YI LYE GAN LAO JUN *Tyromyces fissilis* (sporocarp). Ref: 4414.

**22169 (S)-Tyrosine**

C<sub>9</sub>H<sub>11</sub>NO<sub>3</sub> (181.19). Source: BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.39%~0.87%, mean content = 0.54%)<sup>[5521]</sup>, occurs in many plants. Ref: 660, 5508.

**22170 Tyrosol**

4-Hydroxyphenethyl alcohol [501-94-0] C<sub>8</sub>H<sub>10</sub>O<sub>2</sub> (138.17). mp 93°C. Source: DA CHE QIAN *Plantago major*, DA HUA HONG JING TIAN *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*], MENG ZI CAO HU JIAO *Peperomia duclouxii* (whole herb: yield = 0.0032%)<sup>[4733]</sup>, SHENG DI HONG JING TIAN *Rhodiola sacra*, XIA YE HONG JING TIAN *Rhodiola kirilowii*, ZANG HONG HUA *Crocus sativus* (pollen). Ref: 218, 516, 660, 4233, 4733.

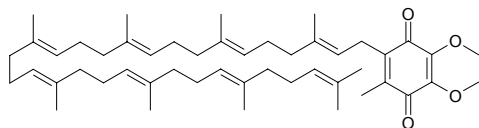




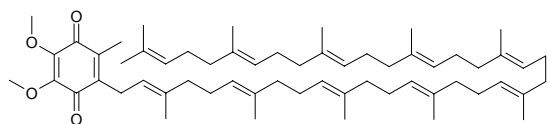
## U

**22171 Ubiquinone 8**

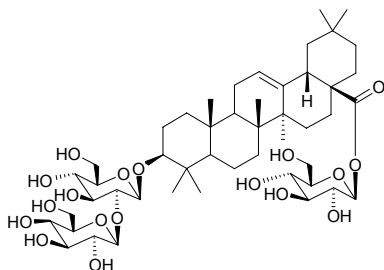
$C_{49}H_{74}O_4$  (727.13). Source: DI SUO LUO *Marchantia polymorpha*. Ref: 660.

**22172 Ubiquinone 10**

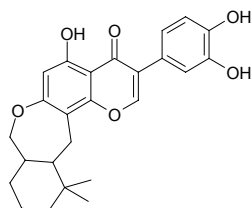
[303-98-0]  $C_{59}H_{90}O_4$  (863.37). Pharm: Used to treatment of congestive heart failure, assists in treatment of heart failure, coronary heart disease, hypertension and arrhythmia, involved with electron-transfer in cyto blasts; anti-myocardial infarction; anti-ischemia, myocardial. Source: occurs in many plants. Ref: 658.

**22173 Udosaponin B**

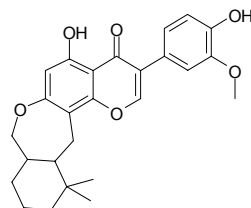
3-*O*-[ $\beta$ -D-Galactopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucuronopyranosyl]-28-*O*- $\beta$ -D-glucopyranosylolean-12-en-28-oic acid  $C_{48}H_{78}O_{18}$  (943.15). Source: TIAN HU SUI *Hydrocotyle sibthorpioides* (whole herb: yield = yield = 0.0037%dw), WU JIA QIAN HU *Steganotaenia araliacea*. Ref: 3013.

**22174 Ugonin A**

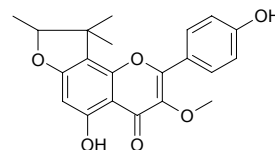
[50982-42-8]  $C_{25}H_{26}O_6$  (422.48). mp 225~226°C. Source: RU DI WU GONG *Helminthostachys zeylanica*. Ref: 6.

**22175 Ugonin B**

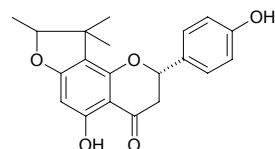
[50982-43-9]  $C_{26}H_{28}O_6$  (436.51). mp 252~254°C. Source: RU DI WU GONG *Helminthostachys zeylanica*. Ref: 6.

**22176 Ugonin C**

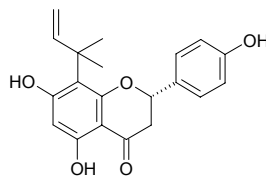
[50868-48-9]  $C_{21}H_{20}O_6$  (368.39). mp (-) 236~237°C. Source: RU DI WU GONG *Helminthostachys zeylanica*. Ref: 6.

**22177 Ugonin D**

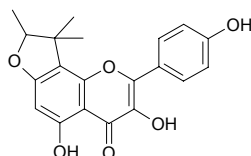
[50868-49-0]  $C_{20}H_{20}O_5$  (340.38). mp 183°C. Source: RU DI WU GONG *Helminthostachys zeylanica*. Ref: 6.

**22178 Ugonin E**

5,7,4'-Trihydroxy-8-(1,1-dimethylallyl)flavanone  $C_{20}H_{20}O_5$  (340.38). Yellow powder,  $[\alpha]_D^{25} = -45.4^\circ$  ( $c = 0.11$ , MeOH). Source: RU DI WU GONG *Helminthostachys zeylanica* (rhizome). Ref: 3484.

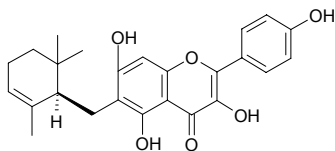
**22179 Ugonin F**

4'',5''-Dihydro-3,5,4'-trihydroxy-4'',4'',5''-trimethylfuran[2'',3'':7,8]flavone  $C_{20}H_{18}O_6$  (354.36). Yellow powder,  $[\alpha]_D^{25} = 3.1^\circ$  ( $c = 0.32$ , MeOH). Source: RU DI WU GONG *Helminthostachys zeylanica* (rhizome). Ref: 3484.

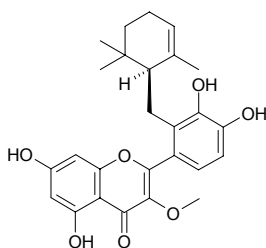


**22180 Ugonin G**

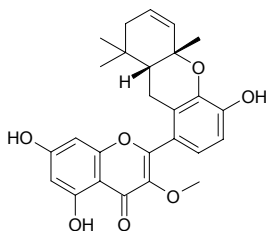
3,5,7,4'-Tetrahydroxy-6-(2,6,6-trimethyl-2-cyclohexenylmethyl)flavone C<sub>25</sub>H<sub>26</sub>O<sub>6</sub> (422.48). Yellow powder,  $[\alpha]_D^{25} = 98.9^\circ$  ( $c = 0.94$ , MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC<sub>20</sub> = (12.63±0.42)μmol/L, control Trolox, IC<sub>20</sub> = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22181 Ugonin H**

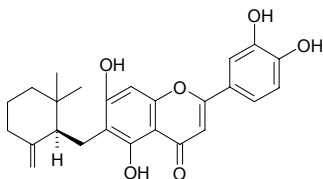
5,7,3',4'-Tetrahydroxy-3-methoxy-2'-(2,6,6-trimethyl-2-cyclohexenylmethyl)flavone C<sub>26</sub>H<sub>28</sub>O<sub>7</sub> (452.51). Yellow powder,  $[\alpha]_D^{25} = 130.5^\circ$  ( $c = 0.95$ , MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC<sub>20</sub> = (9.84±0.22)μmol/L, control Trolox, IC<sub>20</sub> = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22182 Ugonin I**

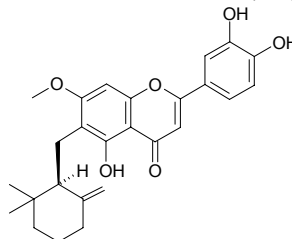
4''a,5'',6'',7'',8''a-Hexahydro-3',4'-dihydroxy-7-methoxy-5'',5'',8''a-trimethyl-4H-chromeno[2'',3'':3',2']flavone C<sub>26</sub>H<sub>26</sub>O<sub>7</sub> (450.49). Yellow powder,  $[\alpha]_D^{25} = -45^\circ$  ( $c = 0.10$ , MeOH). **Pharm:** Antioxidant inactive (DPPH free radical scavenger, IC<sub>20</sub> > 100μmol/L, control Trolox, IC<sub>20</sub> = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22183 Ugonin J**

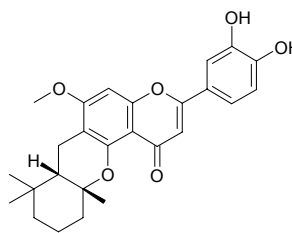
5,7,3',4'-Tetrahydroxy-6-(6,6-dimethyl-2-methylene-cyclohexylmethyl)flavone C<sub>25</sub>H<sub>26</sub>O<sub>6</sub> (422.48). Yellow powder,  $[\alpha]_D^{25} = 50^\circ$  ( $c = 0.30$ , MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC<sub>20</sub> = (5.29±0.32)μmol/L, control Trolox, IC<sub>20</sub> = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22184 Ugonin K**

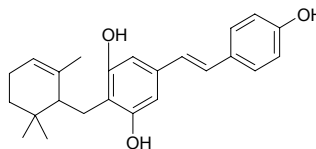
5,3',4'-Trihydroxy-7-methoxy-6-(6,6-dimethyl-2-methylene-cyclohexylmethyl)flavone C<sub>26</sub>H<sub>28</sub>O<sub>6</sub> (436.51). Yellow powder,  $[\alpha]_D^{25} = -18.7^\circ$  ( $c = 0.16$ , MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC<sub>20</sub> = (7.23±0.22)μmol/L, control Trolox, IC<sub>20</sub> = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22185 Ugonin L**

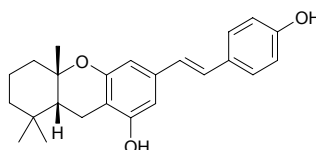
4''a,5'',6'',7'',8''a-Hexahydro-3',4'-dihydroxy-7-methoxy-5'',5'',8''a-trimethyl-4H-chromeno[2'',3'':5,6]flavone C<sub>26</sub>H<sub>28</sub>O<sub>6</sub> (436.51). Yellow powder,  $[\alpha]_D^{25} = 81.8^\circ$  ( $c = 0.22$ , MeOH). **Pharm:** Antioxidant (DPPH free radical scavenger, IC<sub>20</sub> = (7.93±0.31)μmol/L, control Trolox, IC<sub>20</sub> = (10.39±0.56)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 3484.

**22186 Ugonstilbene A**

C<sub>24</sub>H<sub>28</sub>O<sub>3</sub> (364.49). Yellow powder,  $[\alpha]_D^{25} = +162^\circ$  ( $c = 1.18$ , MeOH). **Pharm:** Antioxidant (DPPH scavenger, IC<sub>20</sub> = (11.31±1.11)μmol/L, control Trolox, IC<sub>20</sub> = (8.70±0.95)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 5471.

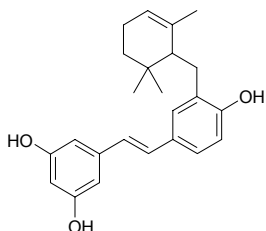
**22187 Ugonstilbene B**

C<sub>24</sub>H<sub>28</sub>O<sub>3</sub> (364.49). Yellow powder,  $[\alpha]_D^{25} = -25^\circ$  ( $c = 0.54$ , MeOH). **Pharm:** Antioxidant (DPPH scavenger, IC<sub>20</sub> = (38.72±0.47)μmol/L, control Trolox, IC<sub>20</sub> = (8.70±0.95)μmol/L). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 5471.

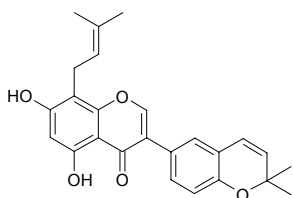


**22188 Ugonstilbene C**

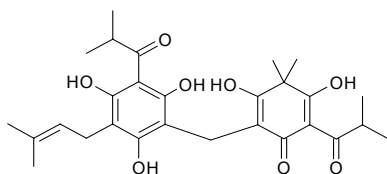
$C_{24}H_{28}O_3$  (364.49). Yellow powder,  $[\alpha]_D^{25} = +46^\circ$  ( $c = 0.30$ , MeOH). **Pharm:** Antioxidant (DPPH scavenger,  $IC_{20} = (30.80 \pm 1.19) \mu\text{mol/L}$ , control Trolox,  $IC_{20} = (8.70 \pm 0.95) \mu\text{mol/L}$ ). **Source:** RU DI WU GONG *Helminthostachys zeylanica* (rhizome). **Ref:** 5471.

**22189 Ulexone A**

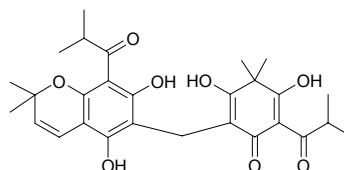
$C_{25}H_{24}O_5$  (404.47). **Source:** PAN YUAN YU TENG *Derris scandens* (stem). **Ref:** 3810.

**22190 Uliginosin A**

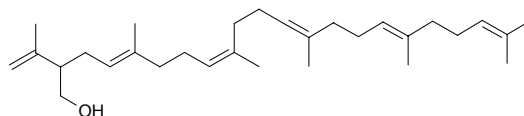
[19809-78-0]  $C_{28}H_{36}O_8$  (500.65). Yellowish crystals (acetonitrile–chloroform), mp 160.5–161.5°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *in vitro*); antifungal (*Trichophyton mentagrophytes*); used in treatment of diarrhea. **Source:** SHI SHENG JIN SI TAO *Hypericum uliginosum*. **Ref:** 661.

**22191 Uliginosin B**

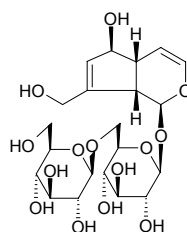
[19809-79-1]  $C_{28}H_{34}O_8$  (498.58). Yellowish tiny lamellar crystals (nitromethane), mp 139.5–142.0°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *in vitro*); antifungal (*Trichophyton mentagrophytes*). **Source:** SHI SHENG JIN SI TAO *Hypericum uliginosum*. **Ref:** 661.

**22192 Ulmoprenol**

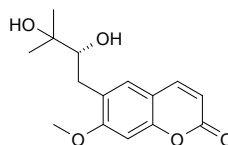
[70475-06-8]  $C_{30}H_{50}O$  (426.73). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2.

**22193 Ulmoside**

[67708-72-9]  $C_{21}H_{32}O_{14}$  (508.48). **Source:** DU ZHONG *Eucommia ulmoides*. **Ref:** 2, 1521.

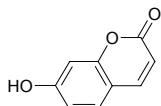
**22194 Ulopterol**

$C_{15}H_{18}O_5$  (278.31). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA: EBV-EA-positive cells = (10.6±1.5)% (viability > 80%),  $\beta$ -Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%), compound  $IC_{50} = 126 \text{mol ratio/32 pmol TPA}$ ,  $\beta$ -Carotene,  $IC_{50} = 400 \text{mol ratio/32 pmol TPA}$ , Curcumin,  $IC_{50} = 341 \text{mol ratio/32 pmol TPA}$ ). **Source:** SAN ZHONG JU ZA JIAO ZHONG [*Citrus unshiu* x *Citrus sinensis*] x *Citrus iyo*. **Ref:** 5048.

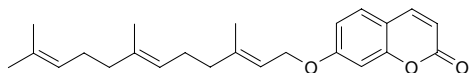


**22195 Umbelliferone**

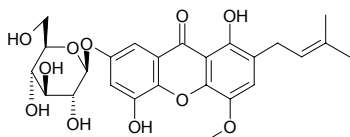
7-Hydroxycoumarin [93-35-6]  $C_9H_6O_3$  (162.15). mp 225~228°C. **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA, EBV-EA-positive cells =  $(56.3 \pm 2.3)\%$  (viability > 80%),  $\beta$ -Carotene, EBV-EA-positive cells =  $(34.3 \pm 1.1)\%$  (viability > 80%), Curcumin, EBV-EA-positive cells =  $(22.8 \pm 1.8)\%$  (viability > 80%);  $IC_{50} = 571$  mol ratio/32 pmol TPA,  $\beta$ -Carotene,  $IC_{50} = 400$  mol ratio/32 pmol TPA, Curcumin  $IC_{50} = 341$  mol ratio/32 pmol TPA)<sup>[5048]</sup>; cytotoxic (KB,  $ED_{50} = 33.0 \mu\text{g/mL}$ ); cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)<sup>[3069]</sup>; NO Production inhibitor (LPS-activated mouse peritoneal macrophages,  $100 \mu\text{mol/L}$ , InRt =  $(44.7 \pm 9.6)\%$ , control *L*-NMMA,  $100 \mu\text{mol/L}$ , InRt =  $(79.2 \pm 0.9)\%$ )<sup>[4454]</sup>; AChE inhibitor (*in vitro*,  $IC_{50} = 29 \text{ mmol/L}$ )<sup>[3058]</sup>; antihypertensive (dog iv, 10mg/kg, blood pressure is lowered by 10% for 7min); antibacterial (*Bacillus coli* and *Bacillus subtilis*, CIC = 65mg/L, the main antibacterial effective component of DI JIN CAO *Euphorbia humifusa*); antifungal (*Trichophyton mentagrophytes*, *Trichophyton purpureatum* and *Candida albicans*); antispasmodic; sedative. **Source:** BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], CHOU CAO *Ruta graveolens*, DI JIN CAO *Euphorbia humifusa*, DIAN QIE *Atropa belladonna*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], DUO BIAN XIAO GUAN HUA *Coronilla varia*, FEN CHA DANG GUI *Angelica furcijuga* (flower), FEN TUAN HUA *Hydrangea paniculata*, FU SHOU CAO *Adonis amurensis*, HUI XIANG *Foeniculum vulgare*, LANG DU *Stellera chamaejasme*, LONG YAN DU HUO *Aralia fargesii*, MA TI YE *Caltha palustris*, MU<sup>(4)</sup> JU *Aegle marmelos*, NAN HE SHI *Daucus carota*, PI HAN CAO *Melilotus suaveolens*, QING JIAO *Zanthoxylum schinifolium*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), RUI XIANG HUA *Daphne odora*, SHENG DI HONG JING TIAN *Rhodiola sacra*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00061%dw), CHAO XIAN DANG GUI *Angelica gigas* (underground part), XUN DAO NIU *Biebersteinia heterostemon*, YOU<sup>(4)</sup> *Citrus grandis*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root), *Citrus medica* var. *etrog*, *Citrus sulcata*, *Apium* sp., *Pimpinella* sp., *Heracleum* sp., occurs in many plants (including *Angelica* spp.; *Artemisia* spp.; *Coronilla* spp.; *Ferula* spp.; *Ruta* spp.). **Ref:** 4, 207, 324, 556, 571, 658, 660, 3058, 3069, 4454, 4502, 4722, 5048, 5501.

**22196 Umbelliprenin**

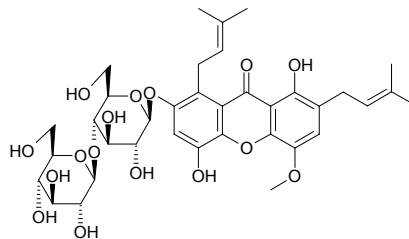
7-Hydroxycoumarin farnesyl ether [23838-17-7]  $C_{24}H_{30}O_3$  (366.50). mp 61~63°C. **Source:** SHI LUO ZI *Anethum graveolens*. **Ref:** 6.

**22197 Umbilicaxanthoside A**

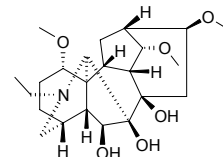
$C_{25}H_{28}O_{11}$  (504.50). Pale yellow needles, mp 114°C,  $[\alpha]_D^{23} = -35^\circ$ . **Source:** WU LA ER DI YI *Umbilicaria proboscidea*. **Ref:** 2048.

**22198 Umbilicaxanthoside B**

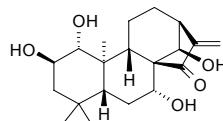
$C_{36}H_{46}O_{16}$  (734.76). Pale yellow needles, mp 133 °C,  $[\alpha]_D^{23} = -47^\circ$ . **Source:** WU LA ER DI YI *Umbilicaria proboscidea*. **Ref:** 2048.

**22199 Umbrofine**

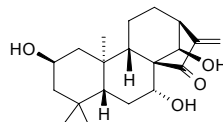
$C_{23}H_{37}NO_6$  (423.55). **Source:** BEI FANG WU TOU *Aconitum septentrionale*, CAO DI WU TOU *Aconitum umbrosum*. **Ref:** 1521.

**22200 Umbrosianin**

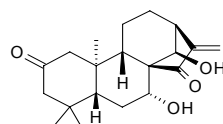
$C_{20}H_{30}O_5$  (350.46). mp 180~182°C,  $[\alpha]_D^{22} = -81.5^\circ$  ( $c = 0.18$ , MeOH). **Source:** YIN DI XIANG CHA CAI *Isodon umbrosa*. **Ref:** 4067.

**22201 Umbrosin A**

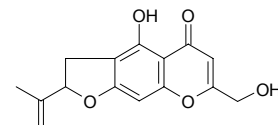
$C_{20}H_{30}O_4$  (334.46). mp 225~228°C,  $[\alpha]_D = -126^\circ$  ( $c = 1.0$ ,  $C_5H_5N$ ). **Source:** YIN DI XIANG CHA CAI *Isodon umbrosa*. **Ref:** 4067.

**22202 Umbrosin B**

$C_{20}H_{28}O_4$  (332.44). mp 262~265°C,  $[\alpha]_D = -150^\circ$  ( $c = 1.0$ ,  $C_5H_5N$ ). **Source:** YIN DI XIANG CHA CAI *Isodon umbrosa*. **Ref:** 4067.

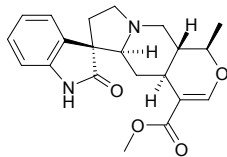
**22203 Umtatin**

$C_{15}H_{14}O_5$  (274.28). **Source:** SHE CHUANG ZI *Cnidium monnieri*. **Ref:** 660.

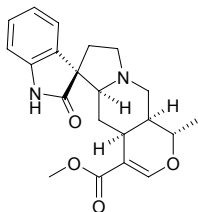


**22204 Uncarine B**

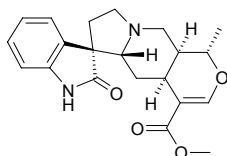
Formosanine C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub> (368.44). **Source:** BAI GOU TENG *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*], DONG FANG GOU TENG *Uncaria orientalis*, ER CHA GOU TENG *Uncaria gambir*, MAO GOU TENG *Uncaria hirsuta*, PING HUA FA LIANG GOU TENG *Uncaria laevigata*, TUO YUAN GOU TENG *Uncaria elliptica*, XIA GOU TENG *Uncaria attenuata*. **Ref:** 5341.

**22205 Uncarine C**

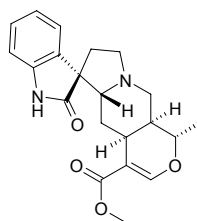
[5629-60-7] C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub> (368.44). **Pharm:** Cytotoxic (SK-MEL, IC<sub>50</sub> > 50 μg/mL, control Doxorubicin, IC<sub>50</sub> < 1.1 μg/mL; KB, IC<sub>50</sub> > 50 μg/mL, Doxorubicin, IC<sub>50</sub> = 1.7 μg/mL; BT549, IC<sub>50</sub> > 50 μg/mL, Doxorubicin, IC<sub>50</sub> = 2.0 μg/mL; SK-OV-3, IC<sub>50</sub> = 37 μg/mL, Doxorubicin, IC<sub>50</sub> = 1.9 μg/mL; Vero, IC<sub>50</sub> > 50 μg/mL, Doxorubicin, IC<sub>50</sub> > 10 μg/mL). **Source:** BI LU GOU TENG *Uncaria tomentosa* (inner bark). **Ref:** 5161.

**22206 Uncarine D**

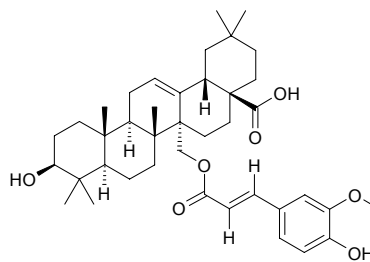
Speciophylline [4697-68-1] C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub> (368.44). **Pharm:** Cytotoxic (SK-MEL, IC<sub>50</sub> = 30 μg/mL, control Doxorubicin, IC<sub>50</sub> < 1.1 μg/mL; KB, IC<sub>50</sub> = 35 μg/mL, Doxorubicin, IC<sub>50</sub> = 1.7 μg/mL; BT549, IC<sub>50</sub> = 34 μg/mL, Doxorubicin, IC<sub>50</sub> = 2.0 μg/mL; SK-OV-3, IC<sub>50</sub> = 30 μg/mL, Doxorubicin, IC<sub>50</sub> = 1.9 μg/mL; Vero, IC<sub>50</sub> = 39 μg/mL, Doxorubicin, IC<sub>50</sub> > 10 μg/mL)<sup>[5161]</sup>; cytotoxic (SKMEL, KB, BT549, SK-OV-3 and Vero cell lines, IC<sub>50</sub> = 30-40 μg/mL)<sup>[5341]</sup>; immunostimulant (maybe by increasing phagocytosis of hmn granulocytes and macrophages and blocking proliferation of myeloid cell lines)<sup>[5341]</sup>. **Source:** BEI YUE GOU TENG *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], BI LU GOU TENG *Uncaria tomentosa*, CHANG HUA GOU TENG *Uncaria longiflora*, DONG FANG GOU TENG *Uncaria orientalis*, DUAN RONG MAO GOU TENG *Uncaria velutina*, GUI YA NA GOU TENG *Uncaria guianensis*, HUA GOU TENG *Uncaria sinensis*, MIAN MAO GOU TENG *Uncaria lanosa*, PAN ZHI GOU TENG *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*], PING HUA FA LIANG GOU TENG *Uncaria laevigata*, XIA GOU TENG *Uncaria attenuata*, *Uncaria bernaysii*, *Uncaria donisii*, *Uncaria perrottetii*, *Uncaria roxburghiana*, *Uncaria sterrophylla*. **Ref:** 5161, 5341.

**22207 Uncarine F**

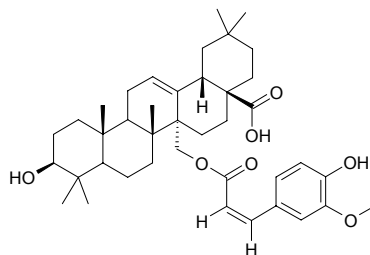
C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub> (368.44). **Pharm:** Immunostimulant (maybe by increasing phagocytosis of hmn granulocytes and macrophages and blocking proliferation of myeloid cell lines). **Source:** BAI GOU TENG *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*], BEI YUE GOU TENG *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*], CHANG HUA GOU TENG *Uncaria longiflora*, DONG FANG GOU TENG *Uncaria orientalis*, DUAN RONG MAO GOU TENG *Uncaria velutina*, HUA GOU TENG *Uncaria sinensis*, MIAN MAO GOU TENG *Uncaria lanosa*, PAN ZHI GOU TENG *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*], *Uncaria bernaysii*, *Uncaria donisii*, *Uncaria perrottetii*, *Uncaria roxburghiana*, *Uncaria sterrophylla*. **Ref:** 5341.

**22208 Uncarinic acid A**

C<sub>40</sub>H<sub>56</sub>O<sub>7</sub> (648.89). **Pharm:** Anti-HIV (H9 lymphocytic cells, inhibits replication, IC<sub>50</sub> (concentration that inhibits uninfected H9 cell growth by 50%) = 19.87 μg/mL, EC<sub>50</sub> (concentration that inhibits viral replication by 50%) = 1.53 μg/mL, TI(IC<sub>50</sub>/EC<sub>50</sub>) = 12.95, control AZT IC<sub>50</sub> = 500 μg/mL, EC<sub>50</sub> = 0.0007 μg/mL, TI = 740000)<sup>[2529]</sup>; cytotoxic (hmn, A549 EC<sub>50</sub> = 4.6 μg/mL, MCF7 EC<sub>50</sub> = 7.7 μg/mL)<sup>[2529]</sup>; cytotoxic (inhibits growth of hmn cancer cell lines A549, HCT15, MCF7 and HT1197)<sup>[5341]</sup>; phospholipase PLCγ1 inhibitor (IC<sub>50</sub> = 35.66 μmol/L)<sup>[5341]</sup>. **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], TAI WAN FU RONG *Hibiscus taiwanensis*. **Ref:** 1521, 2529, 5341.

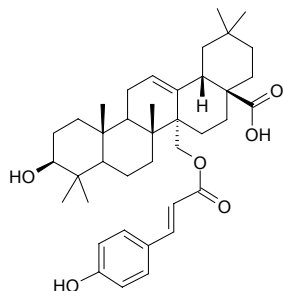
**22209 Uncarinic acid B**

C<sub>40</sub>H<sub>56</sub>O<sub>7</sub> (648.89). **Pharm:** Cytotoxic (inhibits growth of hmn cancer cell lines A549, HCT15, MCF7 and HT1197); phospholipase PLCγ1 inhibitor (IC<sub>50</sub> = 35.66 μmol/L). **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 5341.

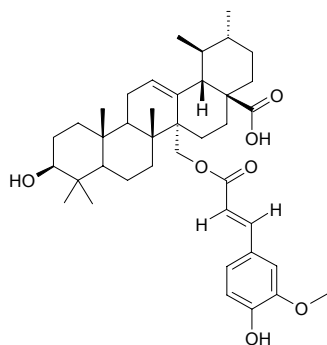


**22210 Uncarinic acid C**

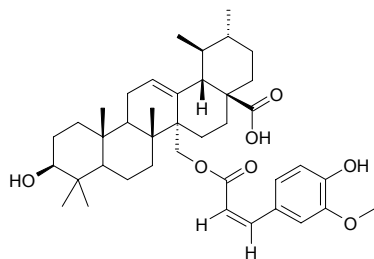
$C_{39}H_{54}O_6$  (618.86). **Pharm:** Cytotoxic (phospholipase PLC $\gamma$ 1 inhibitor,  $IC_{50}$  = 4.6~9.5 $\mu$ mol/L); cytotoxic (inhibits growth of hmn cancer cell lines,  $IC_{50}$  = 0.5~6.5 $\mu$ g/mL). **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 5341.

**22211 Uncarinic acid D**

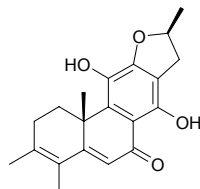
$C_{40}H_{56}O_7$  (648.89). **Pharm:** Cytotoxic (phospholipase PLC $\gamma$ 1 inhibitor,  $IC_{50}$  = 4.6~9.5 $\mu$ mol/L); cytotoxic (inhibits growth of hmn cancer cell lines,  $IC_{50}$  = 0.5~6.5 $\mu$ g/mL). **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 5341.

**22212 Uncarinic acid E**

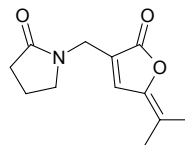
$C_{40}H_{56}O_7$  (648.89). **Pharm:** Phospholipase PLC $\gamma$ 1 inhibitor ( $IC_{50}$  = 4.6~9.5 $\mu$ mol/L); cytotoxic (inhibits growth of hmn cancer cell lines,  $IC_{50}$  = 0.5~6.5 $\mu$ g/mL). **Source:** GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. **Ref:** 5341.

**22213 Uncinatone**

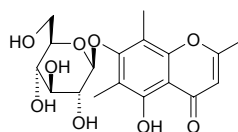
$C_{20}H_{22}O_4$  (326.40). mp 193.2°C,  $[\alpha]_D^{20}$  = -111.0° ( $c$  = 0.5,  $CHCl_3$ ). **Pharm:** Antiproliferative (*in vitro*, MTT assay, CEM,  $IC_{50}$  = 5.5 $\mu$ mol/L, control Doxorubicin,  $IC_{50}$  = 0.036 $\mu$ mol/L, HeLa,  $IC_{50}$  = 4.6 $\mu$ mol/L, Doxorubicin,  $IC_{50}$  = 0.027 $\mu$ mol/L, HCT8,  $IC_{50}$  = 56.7 $\mu$ mol/L, Doxorubicin,  $IC_{50}$  = 0.024 $\mu$ mol/L, MCF7,  $IC_{50}$  = 50.3 $\mu$ mol/L, Doxorubicin,  $IC_{50}$  = 0.183 $\mu$ mol/L, B16,  $IC_{50}$  > 76.7 $\mu$ mol/L, Doxorubicin,  $IC_{50}$  = 0.056 $\mu$ mol/L)<sup>[4940]</sup>; antifungal (*Cladosporium cucumerinum*). **Source:** *Clerodendrum nucinatum*, *Aegiphila thotzkyana* (root). **Ref:** 658, 4940.

**22214 Uncinine**

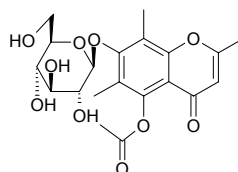
$C_{12}H_{15}NO_3$  (221.26). White amorphous powder. **Pharm:** Cytotoxic (*in vitro*, HepG $_2$ ,  $IC_{50}$  = 6.1 $\mu$ g/mL; Hep2,2,15,  $IC_{50}$  = 7.4 $\mu$ g/mL). **Source:** YOU GOU YING ZHAO *Artabotrys uncinatus* (leaf). **Ref:** 3083.

**22215 Uncinoside A**

5-Hydroxy-2,6,8-trimethylchromone 7-*O*- $\beta$ -D-glucopyranoside  $C_{18}H_{22}O_9$  (382.37). Slight-yellow powder, mp 273~274°C. **Pharm:** Antiviral (respiratory syncytial virus (RSV),  $IC_{50}$  = 6.9 $\mu$ g/mL,  $TC_{50}$  = 82.5 $\mu$ g/mL, TI =  $TC_{50}/IC_{50}$  = 12.0, control Ribavirin,  $IC_{50}$  = 2.6 $\mu$ g/mL,  $TC_{50}$  = 62.5 $\mu$ g/mL, TI =  $TC_{50}/IC_{50}$  = 24.0; parainfluenza type 3 virus (Para-3),  $IC_{50}$  = 13.8 $\mu$ g/mL,  $TC_{50}$  = 82.5 $\mu$ g/mL, TI =  $TC_{50}/IC_{50}$  = 6.0, control Ribavirin,  $IC_{50}$  = 5.2 $\mu$ g/mL,  $TC_{50}$  = 62.5 $\mu$ g/mL, TI =  $TC_{50}/IC_{50}$  = 12.0). **Source:** CUI YUN CAO *Selaginella uncinata* (whole herb). **Ref:** 4398.

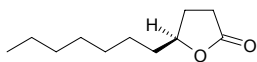
**22216 Uncinoside B**

5-Acetoxy-2,6,8-trimethylchromone 7-*O*- $\beta$ -D-glucopyranoside  $C_{20}H_{24}O_{10}$  (424.41). White powder, mp 165~167°C. **Pharm:** Antiviral (respiratory syncytial virus (RSV),  $IC_{50}$  = 1.3 $\mu$ g/mL,  $TC_{50}$  = 83.3 $\mu$ g/mL, TI =  $TC_{50}/IC_{50}$  = 64.0, control Ribavirin,  $IC_{50}$  = 2.6 $\mu$ g/mL,  $TC_{50}$  = 62.5 $\mu$ g/mL, TI =  $TC_{50}/IC_{50}$  = 24.0; parainfluenza type 3 virus (Para-3),  $IC_{50}$  = 20.8 $\mu$ g/mL,  $TC_{50}$  = 83.3 $\mu$ g/mL, TI =  $TC_{50}/IC_{50}$  = 4.0, control Ribavirin,  $IC_{50}$  = 5.2 $\mu$ g/mL,  $TC_{50}$  = 62.5 $\mu$ g/mL, TI =  $TC_{50}/IC_{50}$  = 12.0). **Source:** CUI YUN CAO *Selaginella uncinata* (whole herb). **Ref:** 4398.

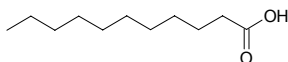


**22217  $\gamma$ -Undecalactone**

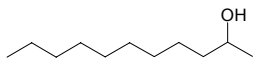
5-Heptyldihydrofuranone [104-67-6] C<sub>11</sub>H<sub>20</sub>O<sub>2</sub> (184.28). Pharm: Flavorant. Source: CHAI HU *Bupleurum chinense*, TAO *Prunus persica*. Ref: 2, 658.

**22218 Undecanoic acid**

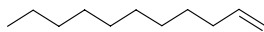
Undecanoic acid [112-37-8] C<sub>11</sub>H<sub>22</sub>O<sub>2</sub> (186.30). Source: FU LING *Poria cocos*. Ref: 2.

**22219 Undecan-2-ol**

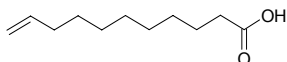
C<sub>11</sub>H<sub>24</sub>O (172.31). mp (+) 12°C, bp (-) 231~233°C, ( $\pm$ ) 228~229°C. Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**22220 Undecene**

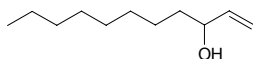
[821-95-4] C<sub>11</sub>H<sub>22</sub> (154.30). bp 192~195°C. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**22221 10-Undecenoic acid**

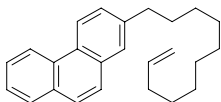
Undecylenic acid. [112-38-9] C<sub>11</sub>H<sub>20</sub>O<sub>2</sub> (184.28). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**22222 1-Undecen-3-ol**

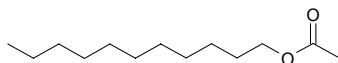
C<sub>11</sub>H<sub>22</sub>O (170.30). Source: KUAN DONG HUA *Tussilago farfara*. Ref: 660.

**22223 Undecenyl phenanthrene**

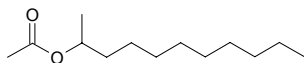
C<sub>25</sub>H<sub>30</sub> (330.52). Source: LUO DI SHENG GEN *Bryophyllum pinnatum*. Ref: 660.

**22224 n-Undecyl acetate**

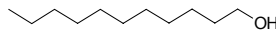
[1731-81-3] C<sub>13</sub>H<sub>26</sub>O<sub>2</sub> (214.35). Source: HEI MA YI *Formica fusca*. Ref: 6.

**22225 2-Undecyl acetate**

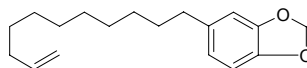
C<sub>13</sub>H<sub>26</sub>O<sub>2</sub> (214.35). Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**22226 Undecyl alcohol**

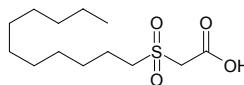
Undecanol [112-42-5] C<sub>11</sub>H<sub>24</sub>O (172.31). mp 19~11°C, bp 147°C/25mmHg. Source: HEI MA YI *Formica fusca*. Ref: 6.

**22227 1-Undecylenyl-3,4-methylenedioxybenzene**

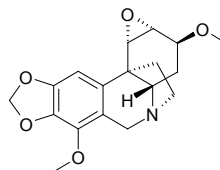
C<sub>18</sub>H<sub>28</sub>O<sub>2</sub> (276.42). Source: BI BA *Piper longum*. Ref: 6.

**22228 Undecyl sulfonyl acetic acid**

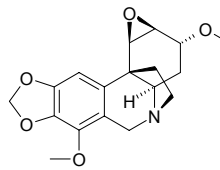
C<sub>13</sub>H<sub>26</sub>O<sub>4</sub>S (278.41). Source: A WEI *Ferula assafoetida*. Ref: 660.

**22229 (+)-Undulatine**

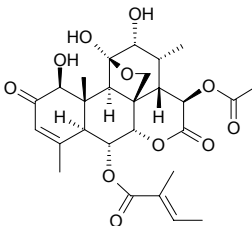
C<sub>18</sub>H<sub>21</sub>NO<sub>5</sub> (331.37). Source: *Crinum moorei*. Ref: 4952.

**22230 (-)-Undulatine**

C<sub>18</sub>H<sub>21</sub>NO<sub>5</sub> (331.37). Pharm: Antimalarial inactive (*Plasmodium falciparum* strain NF-54, stage IEF). Source: GUAN MU WEN SHU LAN *Crinum macowanii* (bulb). Ref: 4000.

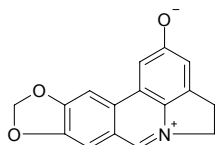
**22231 Undulatone**

[70993-77-0] C<sub>27</sub>H<sub>34</sub>O<sub>11</sub> (534.57). Pharm: Antineoplastic (leukemia). Source: BO YE KU MU *Hannoa undulata*. Ref: 658.

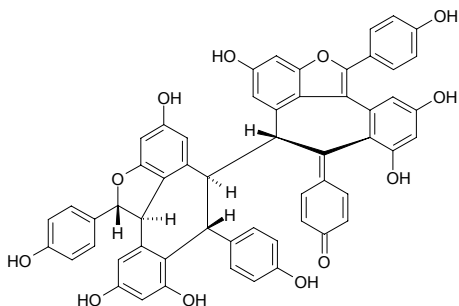


**22232 Ungeremine**

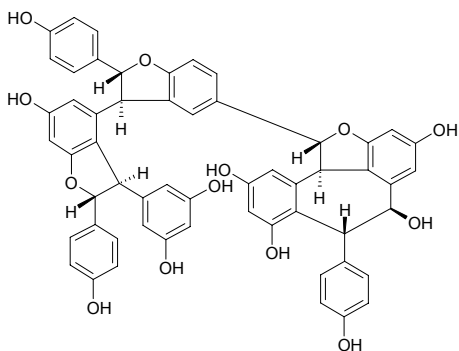
Lecobettaine [2121-12-2]  $C_{16}H_{11}NO_3$  (265.27). mp 270~272°C. **Pharm:** Antineoplastic (active in the treatment of cervical, ovarian, gastric and other cancers in clinical trials; overall response in 233 cases of different cancers was reported to be about 35%; no significant myelotoxic, cardiotoxic and hepatotoxic side effects have been observed)<sup>[5369]</sup>; antineoplastic (mouse or rats ip, Ehrlich ascites carcinoma, ascites hepatoma, leukemia L<sub>1210</sub>, leukemia P<sub>388</sub>, Lewis lung carcinoma and Yoshida ascites sarcoma)<sup>[5369]</sup>; antineoplastic (nude mouse bearing hmn gastric cancer xenografts, extends survival time and decreases the tumor size)<sup>[5369]</sup>; cytotoxic (*in vitro*, S180, KB)<sup>[5369]</sup>; cytotoxic (*in vitro*, stomach cancer cells, direct cytotoxic effect to arrest carcinoma cells in the G2/M phase)<sup>[5369]</sup>; cytotoxic (calf thymus DNA, intercalates with DNA base pairs, especially the GC-pair, does not bind covalently to DNA)<sup>[5369]</sup>; topoisomerase I and II inhibitor (strongly inhibits growth of hmn tumor xenografts *in vitro* and *in vivo*, in the clonogenic assay against 21 hmn tumor xenografts of various tumor types  $IC_{50} = 0.002\sim 27.5\mu\text{mol/L}$  with mean  $IC_{50} = 0.8\mu\text{mol/L}$ )<sup>[5369]</sup>; LD<sub>50</sub> (rat, ori) = 90mg/kg<sup>[5369]</sup>. **Source:** SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], XIAO BO SI SHI SUAN *Ungernia minor* (leaf), YA ZHOU WEN SHU LAN *Crinum asiaticum* (fruit). **Ref:** 4, 1521, 5369.

**22233 Upunaphenol B**

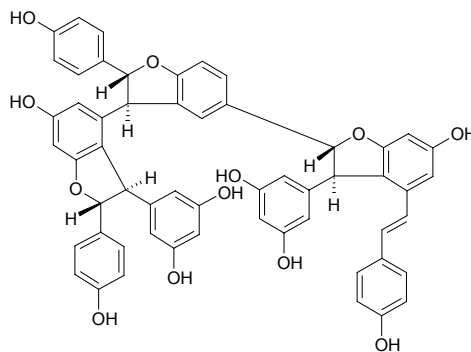
$C_{56}H_{38}O_{12}$  (902.92). Yellow amorphous powder,  $[\alpha]_D^{25} = -530^\circ$  ( $c = 0.1$ , MeOH). **Source:** *Upuna borneensis* (stem). **Ref:** 4435.

**22234 Upunaphenol C**

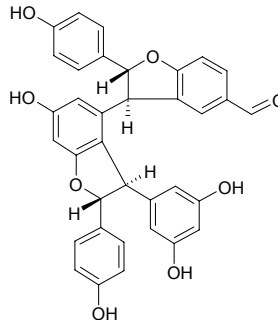
$C_{56}H_{42}O_{13}$  (922.95). Pale yellow amorphous powder,  $[\alpha]_D^{25} = -175^\circ$  ( $c = 0.1$ , MeOH). **Source:** *Upuna borneensis* (stem). **Ref:** 4435.

**22235 Upunaphenol D**

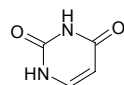
$C_{56}H_{42}O_{12}$  (906.95). Yellow amorphous powder,  $[\alpha]_D^{25} = -229^\circ$  ( $c = 0.1$ , MeOH). **Source:** *Upuna borneensis* (stem). **Ref:** 4435.

**22236 Upunaphenol E**

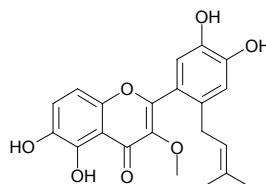
$C_{35}H_{26}O_8$  (574.59). Yellow amorphous powder,  $[\alpha]_D^{25} = -147^\circ$  ( $c = 0.1$ , MeOH). **Source:** *Upuna borneensis* (stem). **Ref:** 4435.

**22237 Uracil**

2,4-Pyrimidinediol [66-22-8]  $C_4H_4N_2O_2$  (112.09). mp 335°C. **Pharm:** Tyrosinase inhibitor (333.3 $\mu\text{mol/L}$ , InRt = 5.3%; control Kojic acid, 333.3 $\mu\text{mol/L}$ , InRt = 59.8%)<sup>[4233]</sup>; enhances myocardial contractility; strengthens vasoconstriction. **Source:** DANG GUI *Angelica sinensis*, DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.050%<sup>[5512]</sup>), FU ZI *Aconitum carmichaeli* (daughter root: mean content = 0.021%<sup>[5508]</sup>), REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.054%<sup>[5512]</sup>), WU TOU *Aconitum carmichaeli*, ZANG HONG HUA *Crocus sativus* (pollen), ZANG HONG HUA *Crocus sativus* (stigma: yield = 0.0020%dw), ZHANG YE BAN XIA *Pinellia pedatisecta*. **Ref:** 2, 239, 658, 660, 4233, 4653, 5508, 5512.

**22238 Uralene**

5,6,3',4'-Tetrahydroxy-3-methoxy-6'-isoprenyl flavone  $C_{21}H_{20}O_7$  (384.39). Yellowish lamellar crystals, mp 216~218°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 251, 660.





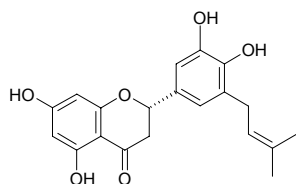
**22239 Uralenin**

5,7,3',4'-Tetrahydroxy-5'-prenylflavone [87746-47-2] C<sub>20</sub>H<sub>20</sub>O<sub>6</sub> (356.38).

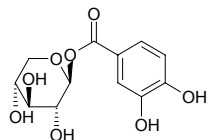
White crystalline powder, mp 212.5~214.0°C; yellow acicular, mp 213~215°C.

**Pharm:** Antibacterial (gram-positive bacteria, *Staphylococcus aureus* and *Bacillus subtilis* EC = 50mg/L); antioxidant (inhibits formation of superoxide in macrophage). **Source:** GAN CAO *Glycyrrhiza uralensis*, CHAO XIAN

YIN YANG HUO *Epimedium koreanum*. **Ref:** 171, 342, 1747, 1748.

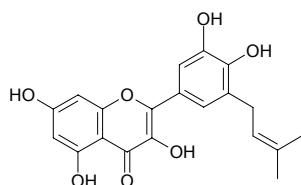
**22240 Uralenneoside**

1-O-Protocatechuy-β-D-xylopyranose C<sub>12</sub>H<sub>14</sub>O<sub>8</sub> (286.24). White granular crystals, mp 185~187°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 231.

**22241 Uralenol**

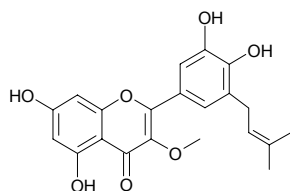
3,5,7,3',4'-Pentahydroxy-5'-isoprenylflavone C<sub>20</sub>H<sub>18</sub>O<sub>7</sub> (370.36). Yellow

acicular crystals, mp 170.5~172.5°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 171.

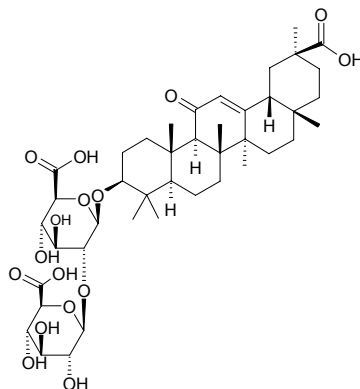
**22242 Uralenol-3-methylether**

5,7,3',4'-Tetrahydroxy-3-methoxy-5'-isoprenyl flavone C<sub>21</sub>H<sub>20</sub>O<sub>7</sub> (384.39).

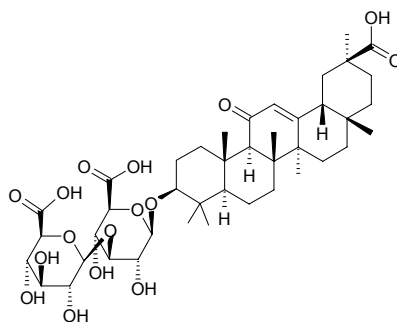
Dark yellow lamellar crystals, mp 104~109°C. **Source:** GAN CAO *Glycyrrhiza uralensis*. **Ref:** 251, 660.

**22243 Uralsaponin A**

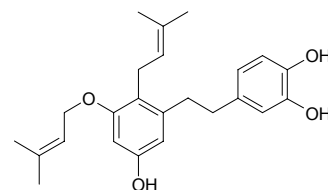
3β-Hydroxy-11-oxo-olean-12-en-30-oic acid-3-O-β-D-glucuronopyranosyl-(1→2)-β-D-glucuronopyranoside [103000-77-7] C<sub>42</sub>H<sub>62</sub>O<sub>16</sub> (822.95). White granular crystals, mp 235°C, [α]<sub>D</sub><sup>18</sup> = +42.7° (c = 0.45, 90% methanol). **Source:** GAN CAO *Glycyrrhiza uralensis*, HUANG GAN CAO *Glycyrrhiza kansuensis*. **Ref:** 57, 660.

**22244 Uralsaponin B**

3β-Hydroxy-11-oxo-olean-12-en-30-oic acid-3-O-β-D-glucuronopyranosyl-(1→3)-β-D-glucuronopyranoside [105038-43-5] C<sub>42</sub>H<sub>62</sub>O<sub>16</sub> (822.95). White granular crystals, mp 244°C, [α]<sub>D</sub><sup>18</sup> = +31.0° (c = 0.29, 90% methanol). **Source:** GAN CAO *Glycyrrhiza uralensis* (root and rhizome: content = 0.436%<sup>[5508]</sup>), GUANG GUO GAN CAO *Glycyrrhiza glabra* (root and rhizome: content = 0.813%<sup>[5508]</sup>), HUANG GAN CAO *Glycyrrhiza kansuensis*, ZHANG GUO GAN CAO *Glycyrrhiza inflata* (root and rhizome: content = 0.932%<sup>[5508]</sup>). **Ref:** 57, 195, 660, 5508.

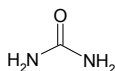
**22245 Uralstilbene**

C<sub>24</sub>H<sub>30</sub>O<sub>4</sub> (382.50). Amorphous solid. **Source:** GAN CAO *Glycyrrhiza uralensis* (leaf). **Ref:** 4387.

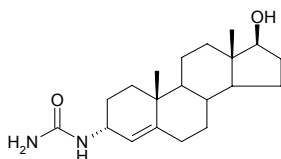


**22246 Urea**

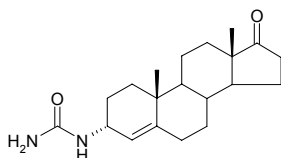
Carbamoylamine [57-13-6] CH<sub>4</sub>N<sub>2</sub>O (63.06). mp 132°C. Source: DONG GUA ZI *Benincasa hispida*, LI SHU PI *Castanea mollissima*, MA BO *Lasiosphaera fenzlii*, NIU DAN *Bos taurus domesticus*; *Bubalus bubalis*, NIU XUE *Bos taurus domesticus*; *Bubalus bubalis*, REN NIAO *Homo sapiens*, REN ZHONG BAI *Homo sapiens*, WU LING ZHI *Trogopterus xanthipes*; *Pteromys volans*, XIA TIAN GAO *Bos taurus domesticus*, YE MING SHA *Vespertilio superans*. Ref: 6.

**22247 3α-Ureido-androst-4-en-17β-ol**

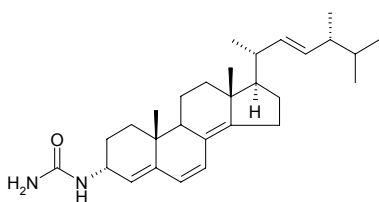
C<sub>20</sub>H<sub>32</sub>N<sub>2</sub>O<sub>2</sub> (332.49). Amorphous powder, mp 220~223°C °, [α]<sub>D</sub><sup>25</sup> = +115° (c = 0.002, MeOH). Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 4190.

**22248 3α-Ureido-androst-4-en-17-one**

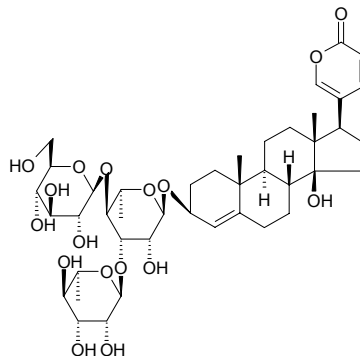
C<sub>20</sub>H<sub>30</sub>N<sub>2</sub>O<sub>2</sub> (330.47). Amorphous powder, mp 210~212°C (>215°C), [α]<sub>D</sub><sup>25</sup> = +250° (c = 0.02, MeOH). Source: SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. Ref: 4190.

**22249 (22E,24R)-3α-Ureido-ergosta-4,6,8(14),22-tetraene**

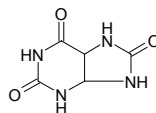
C<sub>29</sub>H<sub>44</sub>NO (436.69). Amorphous powder, [α]<sub>D</sub><sup>25</sup> = +364.5° (c = 0.3, MeOH). Source: *Chlorophyllum molybdites*. Ref: 4112.

**22250 Uarginin**

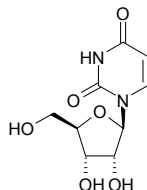
14β-Hydroxybuta-4,20,22-trienolide 3β-O-{α-L-rhamnopyranosyl-[(1→4)-β-D-glucopyranosyl-(1→3)-α-L-rhamnopyranoside]} C<sub>42</sub>H<sub>62</sub>O<sub>17</sub> (838.95). Pale yellow crystals, mp 178~182°C (MeOH), [α]<sub>D</sub> = -55.15° (c = 0.0068). Source: GAO HAI CONG *Urginea altissima* (bulb), *Drimia robusta* (bulb). Ref: 5193.

**22251 Uric acid**

2,6,8-Trihydroxy-purine [69-93-2] C<sub>5</sub>H<sub>4</sub>N<sub>4</sub>O<sub>3</sub> (170.13). No melting point, > 400°C (dec). Source: MA BO *Lasiosphaera fenzlii*, NIU XUE *Bos taurus domesticus*; *Bubalus bubalis*, REN NIAO *Homo sapiens*, REN ZHONG BAI *Homo sapiens*, XIA TIAN GAO *Bos taurus domesticus*, YE MING SHA *Vespertilio superans*, YUAN CAN ZI *Bombyx mori*. Ref: 6.

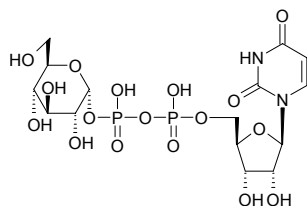
**22252 Uridine**

C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>6</sub> (244.21). Pharm: Antioxidant inactive (DPPH scavenger, EC<sub>50</sub> > 200μg/mL, control Ascorbic acid, EC<sub>50</sub> = 1.6μg/mL = 9.1μmol/L)<sup>[4154]</sup>. Source: BEI SHA SHEN *Glehnia littoralis* (underground part), CANG ZHU *Atractylodes lancea*, DANG GUI *Angelica sinensis* (root: content = 0.015%)<sup>[5514]</sup>, DONG CHONG XIA CAO *Cordyceps sinensis* (dried fungal stroma growing on larva of a caterpillar: content = 0.111%)<sup>[5512]</sup>, GUAN HUA ROU CONG RONG *Cistanche tubulosa* (fleshy stem: content = 0.016%)<sup>[5514]</sup>, HUANG QI *Astragalus membranaceus* (root: content = 0.027%)<sup>[5514]</sup>, MAI DONG *Ophiopogon japonicus* (tuberoid: content = 0.005%)<sup>[5514]</sup>, REN GONG YONG CHONG CAO *Cordyceps militaris* cv. (sclerotium and stroma: content = 0.306%)<sup>[5512]</sup>, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*] (root: content = 0.028%)<sup>[5514]</sup>, SHI LUO ZI *Anethum graveolens* (fruit), SHU DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (steamed and shined root: content = 0.017%)<sup>[5514]</sup>. Ref: 4154, 4177, 4348, 5512, 5514.

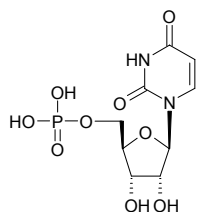


**22253 Uridine diphosphate glucose**

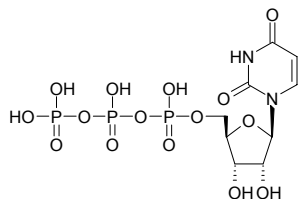
[133-89-1]  $C_{15}H_{24}N_2O_{17}P_2$  (566.32). **Pharm:** Involves the metabolism of carbohydrates. **Source:** occurs in many plants (biosynthetic product from the uridyl transferase catalysed reaction of UTP and glucose 1-phosphate). **Ref:** 658.

**22254 Uridine monophosphate**

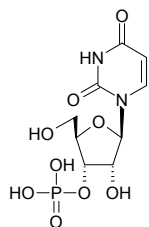
5'-Uridylic acid  $C_9H_{13}N_2O_9P$  (324.19). mp 198.5°C. **Source:** MO GU *Agaricus campestris*. **Ref:** 6.

**22255 Uridine-5'-triphosphatemonophosphate**

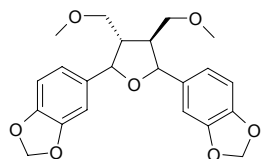
[63-39-8]  $C_9H_{15}N_2O_{15}P_3$  (484.15). **Source:** Yeast and other biological sources. **Ref:** 1521.

**22256 Uridylic acid**

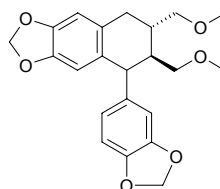
$C_9H_{13}N_2O_9P$  (324.19). mp 195°C (dec). **Source:** GOU QI YE *Lycium chinense*. **Ref:** 6.

**22257 Urinaligran**

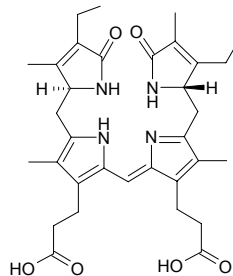
$C_{22}H_{24}O_7$  (400.43). Colorless liquid,  $[\alpha]_D^{25} = +19.0^\circ$  ( $c = 1.0$ ). **Source:** YE XIA ZHU *Phyllanthus urinaria*. **Ref:** 3410.

**22258 Urinatetralin**

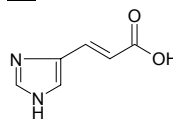
$C_{22}H_{24}O_6$  (384.43). Liquid,  $[\alpha]_D^{25} = +7.0^\circ$  ( $c = 1.0$ ). **Source:** YE XIA ZHU *Phyllanthus urinaria*. **Ref:** 3410.

**22259 Urobilin**

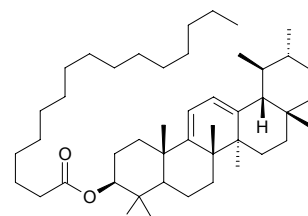
[1856-98-0]  $C_{33}H_{42}N_4O_6$  (590.73). mp 177°C. **Source:** REN NIAO *Homo sapiens*. **Ref:** 6.

**22260 Urocanic acid**

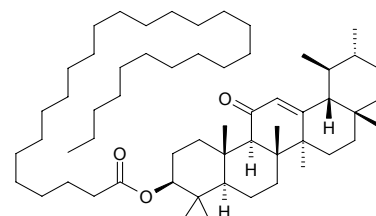
4-Imidazoleacrylic acid [104-98-3]  $C_6H_6N_2O_2$  (138.13). mp [ $\alpha$  (*trans*)] 218–224°C, [ $\beta$  (*cis*)] 175–176°C. **Source:** GUI GAI *Coprinus atramentarius*. **Ref:** 6.

**22261 9(11),12-Ursadien-3β-ol 3-O-palmitate**

$C_{46}H_{78}O_2$  (663.13). Amorphous,  $[\alpha]_D^{25} = +150.2^\circ$  ( $c = 0.36$ ,  $CHCl_3$ ), artificial diene derivative. **Source:** HUANG LONG DAN *Gentiana lutea* (rhizomes and root). **Ref:** 4364.

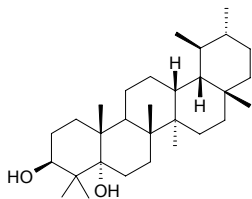
**22262 Ursa-12-ene-11-one-3-ol octocosate**

Ursa-12-ene-11-one-3-ol octocosate  $C_{58}H_{102}O_3$  (847.46). White solid mp 80–82°C. **Source:** TONG QIAO SHE GU *Balanophora involucreta*. **Ref:** 793.

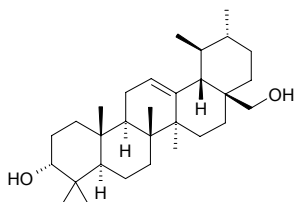


**22263 Ursan-3 $\beta$ ,5 $\alpha$ -diol**

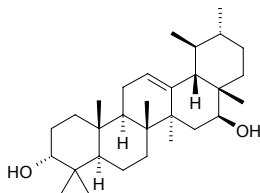
$C_{30}H_{52}O_2$  (444.75). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

**22264 Urs-12-en-3 $\beta$ ,28-diol**

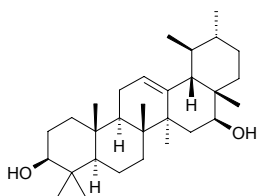
$C_{30}H_{50}O_2$  (442.73). Source: XIA KU CAO *Prunella vulgaris*. Ref: 2508.

**22265 Urs-12-ene-3 $\alpha$ ,16 $\beta$ -diol**

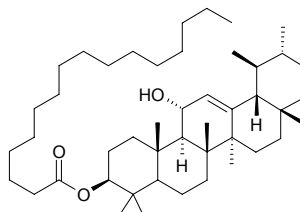
[122475-43-8]  $C_{30}H_{50}O_2$  (442.73). mp 127~128°C,  $[\alpha]_D^{23} = +43^\circ$  ( $c = 1.0$ , chloroform). Pharm: Antihepatotoxin (rat, hepatodamage caused by galactosamine). Source: QING GUO *Canarium album*. Ref: 660, 1147.

**22266 Urs-12-ene-3 $\beta$ ,16 $\beta$ -diol**

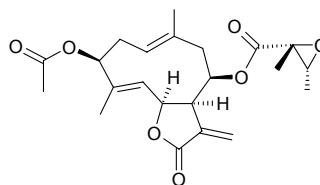
[465-08-7]  $C_{30}H_{50}O_2$  (442.73). mp 225~227°C,  $[\alpha]_D^{28} = +49^\circ$  ( $c = 1.0$ , chloroform). Pharm: Antihepatotoxin (rat, hepatodamage caused by galactosamine). Source: QING GUO *Canarium album*. Ref: 660, 1147.

**22267 12-Ursene-3 $\beta$ , 11 $\alpha$ -diol 3-O-palmitate**

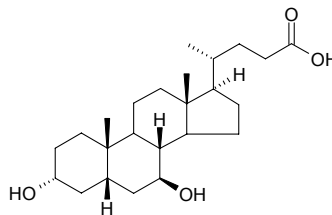
$C_{46}H_{80}O_3$  (681.15). Amorphous,  $[\alpha]_D^{25} = +31.1^\circ$  ( $c = 0.27$ ,  $CHCl_3$ ). Source: HUANG LONG DAN *Gentiana lutea* (rhizomes and root). Ref: 4364.

**22268 Ursiniolide A**

[52677-96-0]  $C_{22}H_{28}O_7$  (404.47). Pharm: Antineoplastic; cytotoxic. Source: *Ursinia anthemoides*. Ref: 658.

**22269 Ursodeoxycholic acid**

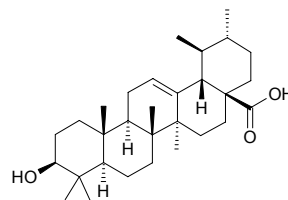
[128-13-2]  $C_{24}H_{40}O_4$  (392.58). Pharm: Antispasmodic (mus, small intestine); choleric; antidote; enhances activity of esterase; hypoglycemic (rht, hyperglycemia model induced by alloxan, 0.4g/(kg-d) orl 5 days, having obvious effect, also lowers urine sugar); antihypercholesterolemic (reduces the level of cholesterol and triglyceride in serum); LD<sub>50</sub> (mus, sc) = 1250mg/kg. Source: XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. Ref: 2, 658.



**22270 Ursolic acid**

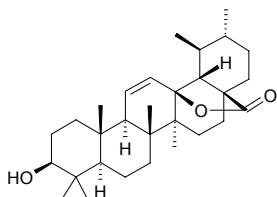
$\beta$ -Ursolic acid [77-52-1] C<sub>30</sub>H<sub>48</sub>O<sub>3</sub> (456.72). White solid powder (chloroform–methanol), mp 298–294°C, 265–267°C. **Pharm:** Cytotoxic (KB, ED<sub>50</sub> > 25 µg/mL, control Doxorubicin, ED<sub>50</sub> = 0.12 µg/mL; Hep3B, ED<sub>50</sub> > 25 µg/mL, control Doxorubicin, ED<sub>50</sub> = 0.14 µg/mL; Colon205, ED<sub>50</sub> > 25 µg/mL, control Doxorubicin, ED<sub>50</sub> = 0.10 µg/mL; HeLa, ED<sub>50</sub> > 25 µg/mL, control Doxorubicin, ED<sub>50</sub> = (0.11 µg/mL)<sup>[4369]</sup>; cytotoxic (*in vitro*, HONE-1 cell, IC<sub>50</sub> = (8.8±1.5) µmol/L, control Etoposide, IC<sub>50</sub> = (0.5±0.2) µmol/L, *cis*-Platin, IC<sub>50</sub> = (3.2±0.5) µmol/L; KB cell, IC<sub>50</sub> = (8.2±2.7) µmol/L, Etoposide, IC<sub>50</sub> = (0.9±0.3) µmol/L, *cis*-Platin, IC<sub>50</sub> = (4.4±0.9) µmol/L; HT29 cell, IC<sub>50</sub> = (4.7±1.5) µmol/L, Etoposide, IC<sub>50</sub> = (2.4±0.5) µmol/L, *cis*-Platin, IC<sub>50</sub> = (5.7±1.1) µmol/L)<sup>[5254]</sup>; antineoplastic (liver cancer cells *in vitro*, mus ascites carcinoma *in vivo*, life was prolonged); antibacterial (*Escherichia coli*, IZD = 13–15mm, control Chloramphenicol, IZD = 16–20mm, control DMSO (4%), IZD < 10mm; *Staphylococcus aureus*, IZD = 10–12mm, control Chloramphenicol, IZD = 16–20mm, control DMSO (4%), IZD < 10mm; *Bacillus subtilis*, IZD = 13–15mm; control Chloramphenicol, IZD = 16–20mm, control DMSO (4%), IZD < 10mm)<sup>[5315]</sup>; antibacterial (*Staphylococcus* spp. *in vitro*, MIC = 300 µg/mL, gram-positive bacteria *in vitro*, MIC = 50–400 µg/mL, gram-negative bacteria *in vitro*, MIC = 200–800 µg/mL, microzyme *in vitro*, MIC = 100–700 µg/mL); antitubercular (*Mycobacterium tuberculosis*, MIC = 41.9 µg/mL, cytotoxic, Vero cells, IC<sub>50</sub> = 46.5 µg/mL, SI (IC<sub>50</sub>/MIC) = 1.11, positive control Rifampin, MIC = 0.03 µg/mL, IC<sub>50</sub> = 98.3 µg/mL, SI = 3277)<sup>[4986]</sup>; anticonvulsant (induced by corazol); anti-inflammatory (rat, induced by embedding woolball, 12.5mg/(kg·d) ip, 7 days, effective); anti-inflammatory (*in vitro*, murine macrophage RAW264.7 Cells, inhibits LPS-induced NO and PGE<sub>2</sub> release)<sup>[5016]</sup>; COX-2 enzyme selective inhibitor (mean IC<sub>50</sub> of isomers = 130 µmol/L)<sup>[4415]</sup>; COX-2 inhibitor (PMA-treated hmn mammary and oral epithelial cells, molecular mechanisms is mediated by a cAMP response element in the COX-2 promoter, associated with inhibition of protein kinases)<sup>[4415]</sup>; antipyretic (clearly reduces normal body temperature in rat); reduces serum transaminase (animal, 100mg/kg); antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.2 µmol/L, control Gentian violet, MLC = 6.2 µmol/L)<sup>[2579]</sup>; mucin release stimulator (acts directly on airway mucin-secreting cells, increased mucin release (40–50)% above control at the highest concentrations 0.0001–0.001 mol/L, possible use to treatment of chronic airway diseases)<sup>[4084]</sup>; platelet aggregation inhibitor (2–5mg/mL collagen-induced, IC<sub>50</sub> = (511±4) µmol/L, control ASA, IC<sub>50</sub> = (420±3) µmol/L; 1–4 µmol/L epinephrine-induced with 0.8–1.0mg/mL collagen, IC<sub>50</sub> = (82.6±2.8) µmol/L, ASA, IC<sub>50</sub> = (53.0±4.5) µmol/L; 10–40 µmol/L Sodium arachidonate-induced with 0.8–1.0mg/mL collagen, IC<sub>50</sub> = (669±12) µmol/L, ASA, IC<sub>50</sub> = (66.0±2.1) µmol/L; 1–5 µmol/L PGH<sub>2</sub>/TXA<sub>2</sub> receptor agonist U46619-induced with 0.8–1.0mg/mL collagen, IC<sub>50</sub> > 1000 µmol/L, ASA, IC<sub>50</sub> = (340±12) µmol/L)<sup>[4994]</sup>; tissue factor inhibitor inactive<sup>[5387]</sup>; antirheumatic<sup>[5341]</sup>; anti-diabetic<sup>[5341]</sup>; antiulcer<sup>[5341]</sup>; hypolipidemic<sup>[5341]</sup>; anti-atherosclerotic<sup>[5341]</sup>; anti-HIV<sup>[5341]</sup>; TGF- $\beta$ 1 antagonist (inhibits the binding of <sup>125</sup>I-TGF- $\beta$ 1 to its receptor in Balb/c 3T3 cell, IC<sub>50</sub> = (6.9±0.8) µmol/L, suggests TGF- $\beta$ 1 antagonistic activity is responsible, at least in part, for therapeutic efficacy of *Clerodendranthus spicatus* to treat humans with renal disease)<sup>[5496]</sup>; glucocorticoid (enhances glycogen in liver, reduces glycogen in heart and striated muscles); LD<sub>50</sub> (mus, ip) = 680mg/kg. **Source:** BAI HUA SHE SHE CAO *Oldenlandia diffusa* [Syn.

*Hedyotis diffusa*] (whole herb: mean content of 16 origins = 0.211%<sup>[5508]</sup>), BI LU GOU TENG *Uncaria tomentosa*, CHE QIAN *Plantago asiatica* (whole herb: content scope = 0.28%–2.32%, mean content = 0.97%<sup>[5508]</sup>), CHI NAN *Syzygium buxifolium*, CHONG YA YAO *Isodon ternifolius*, CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], DA CHE QIAN *Plantago major*, DA ZAO *Ziziphus jujuba* (ripe fruit: mean content = 0.016%<sup>[5508]</sup>), DAN SHEN *Salvia miltiorrhiza*, DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0064%dw), DONG LING CAO *Rabdosia rubescens* (whole herb: mean content = 0.414%<sup>[5508]</sup>; leaf: mean content = 0.573%<sup>[5508]</sup>), DU ZHONG *Eucommia ulmoides*, DUAN TING SHAN MAI DONG *Liriope muscari* (tuber), GOU GU YE *Ilex cornuta* (leaf: mean content = 0.96%<sup>[5508]</sup>), GUANG JING QIAN CAO *Rubia wallichiana* (stem), HONG HUA LU TI CAO *Pyrola incarnata* (whole herb: content = 2.06%<sup>[5508]</sup>), HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content = 0.455%), JIAN YE TOU WU GEN *Ligularia sagitta*, LIAN QIAN CAO *Glechoma lungituba*, LIAN QIAO *Forsythia suspensa*, LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), MA BIAN CAO *Verbena officinalis* (whole herb: mean content of 5 batch samples = 0.227%<sup>[5508]</sup>), MAO CAO LONG *Ludwigia octovalvis* (whole herb: yield = 0.00012%dw), MAO PAO TONG *Paulownia tomentosa*, MAO XU CAO *Clerodendranthus spicatus*, MU GUA *Chaenomeles sinensis*, NV ZHEN ZI *Ligustrum lucidum*, PI PA YE *Eriobotrya japonica* (dried leaf: mean content = 0.677%<sup>[5508]</sup>), PI PA YE *Eriobotrya japonica* (stem and leaf), PING CHE QIAN *Plantago depressa* (whole herb: mean content = 0.276%<sup>[5508]</sup>), RI BEN LU TI CAO *Pyrola japonica*, RONG SHU *Ficus microcarpa* (aerial root), SHAN DI XIANG CHA CAI *Isodon oresbia*, SHAN LI HONG *Crataegus pinnatifida* var. *major*, SHAN ZHA *Crataegus pinnatifida* (fruit: content scope = 0.31%–0.56%<sup>[5501]</sup>), SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (dried ripe fruit: content scope = 0.24%–0.32%<sup>[5501]</sup>, mean content = 0.263%<sup>[5508]</sup>), SHI NAN *Photinia serrulata* (leaf: mean content = 1.50%<sup>[5508]</sup>), SHI SHENG BIAN LEI *Gentianopsis paludosa*, SHI YE *Diospyros kaki* (dried leaf: mean content = 0.784%<sup>[5508]</sup>), SHU HUA JIE CAO *Valeriana laxiflora* (aerial parts and root), SUAN ZAO *Ziziphus jujuba* var. *spinosa* (ripe fruit: content = 0.030%<sup>[5508]</sup>), SUO YANG *Cynomorium songaricum* (fleshy stem: content = 0.78%<sup>[5508]</sup>), WEI LING CAI *Potentilla chinensis*, WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit), XIA KU CAO *Prunella vulgaris* (dried spike: content = 0.780%<sup>[5508]</sup>), YANG MEI SHU PI *Myrica rubra* (bark: content = 0.027%), YE SHAN ZHA *Crataegus cuneata* (dried ripe fruit: mean content of 3 origins = 0.399%<sup>[5508]</sup>), YI LANG QING LAN *Dracocephalum kotschyi*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*] (dried ripe fruit: mean content = 0.041%<sup>[5508]</sup>), ZHOU YE LU TI CAO *Pyrola rugosa* (whole herb: content = 3.00%<sup>[5508]</sup>), *Cussonia bancoensis*, occurs in many plants. **Ref:** 4, 367, 428, 454, 501, 592, 595, 600, 658, 660, 2579, 3005, 3061, 4084, 4163, 4369, 4415, 4527, 4767, 4772, 4986, 4994, 5016, 5254, 5315, 5382, 5387, 5341, 5496, 5501, 5508.

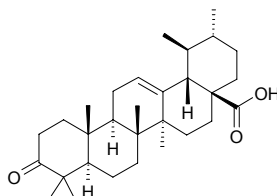


**22271 Ursolic acid lactone**

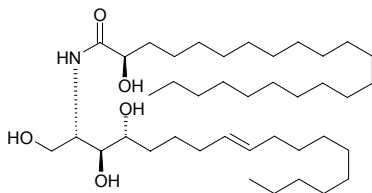
$C_{30}H_{46}O_3$  (454.70). Needles (EtOH), mp 262–264°C. **Pharm:** Nerve growth factor (NGF) enhancer. **Source:** MA BIAN CAO *Verbena officinalis* (white herb). **Ref:** 4902.

**22272 Ursonic acid**

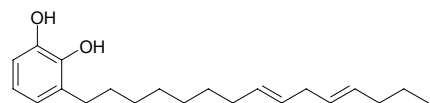
$C_{30}H_{46}O_3$  (454.70). Colorless solid, mp 271–275°C,  $[\alpha]_D^{25} = +56.7^\circ$  ( $c = 0.9$ ,  $CHCl_3$ ). **Pharm:** Inhibits degranulation and release of  $\beta$ -hexosaminidase (RBL-2H3 cells, 100  $\mu$ mol/L, InRt = (20.2 $\pm$ 1.3)%), control Curcumin, 100  $\mu$ mol/L, InRt = (62.6 $\pm$ 1.0)%,  $p < 0.01$ , did not affect the enzyme activity of  $\beta$ -hexosaminidase<sup>[4163]</sup>; cytotoxic (*in vitro*, HONE-1 cell,  $IC_{50} = (5.2 \pm 0.7) \mu$ mol/L, control Etoposide,  $IC_{50} = (0.5 \pm 0.2) \mu$ mol/L, *cis*-Platin,  $IC_{50} = (3.2 \pm 0.5) \mu$ mol/L; KB cell,  $IC_{50} = (4.0 \pm 2.1) \mu$ mol/L, Etoposide,  $IC_{50} = (0.9 \pm 0.3) \mu$ mol/L, *cis*-Platin,  $IC_{50} = (4.4 \pm 0.9) \mu$ mol/L; HT29 cell,  $IC_{50} = (6.3 \pm 1.8) \mu$ mol/L, Etoposide,  $IC_{50} = (2.4 \pm 0.5) \mu$ mol/L, *cis*-Platin,  $IC_{50} = (5.7 \pm 1.1) \mu$ mol/L)<sup>[5254]</sup>. **Source:** DUO SUI PO BU MU *Cordia multispicata* (leaf), RONG SHU *Ficus microcarpa* (aerial root), YANG MEI SHU PI *Myrica rubra* (bark; yield = 0.0067%). **Ref:** 4106, 4163, 5254.

**22273 Urtica ceramide**

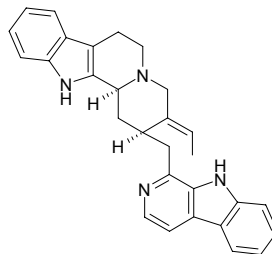
$C_{40}H_{79}NO_5$  (654.08). **Source:** LIAO DONG CONG MU YE *Aralia elata*. **Ref:** 4471.

**22274 Urushiol III**

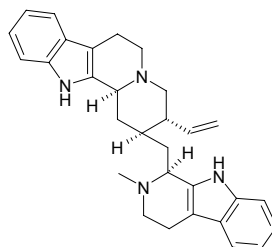
$C_{21}H_{32}O_2$  (316.49). **Pharm:** Dermatitic (causes contact dermatitis); inhibits metabolism of arachidonic acid. **Source:** DU QI TENG *Toxicodendron radicans*. **Ref:** 658.

**22275 Usambarensine**

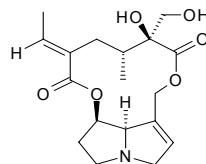
[36150-14-8]  $C_{29}H_{28}N_4$  (432.57). **Pharm:** Muscarinic inhibitor (rat intestine, *in vitro*). **Source:** DONG FEI MA QIAN *Strychnos usambarensis*. **Ref:** 658.

**22276 Usambarine**

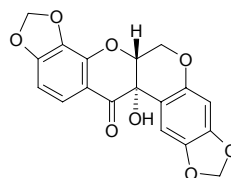
[35226-29-0]  $C_{30}H_{34}N_4$  (450.63). **Pharm:** Toxin. **Source:** DONG FEI MA QIAN *Strychnos usambarensis*. **Ref:** 658.

**22277 Usaramine**

[15503-87-4]  $C_{18}H_{25}NO_6$  (351.40). mp (*trans*) 182.5–183.5°C. **Pharm:** Antihypertensive; similar action with atropine; toxic (hepatic and pulmonary toxicity). **Source:** DUAN YE ZHU SHI DOU *Crotalaria brevifolia*, GUANG E ZHU SHI DOU *Crotalaria usaramoensis*, GUANG YE ZHU SHI DOU *Crotalaria incana*, XI YE ZHU SHI DOU *Crotalaria intermedia*, XIANG LING CAO *Crotalaria ferruginea*, ZHU SHI DOU *Crotalaria mucronata*. **Ref:** 6, 658.

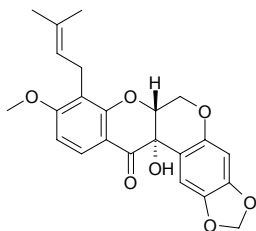
**22278 Usararotenoid A**

$C_{18}H_{12}O_8$  (356.29). **Pharm:** Antimalarial (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*,  $IC_{50} = 66.6 \mu$ mol/L, control Chloroquine,  $IC_{50} = 0.094 \mu$ mol/L, control Quinine,  $IC_{50} = 0.209 \mu$ mol/L; chloroquine-sensitive D6 strain of *Plasmodium falciparum*,  $IC_{50} = 60.7 \mu$ mol/L, control Chloroquine,  $IC_{50} = 0.009 \mu$ mol/L, control Quinine,  $IC_{50} = 0.044 \mu$ mol/L). **Source:** *Milletia usaramensis* ssp. *usaramensis*. **Ref:** 3454.

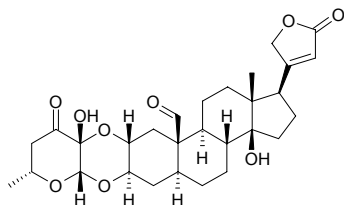


**22279 Usararotenoid C**

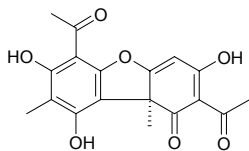
(6a*R*,12a*S*)-2,3-Methylenedioxy-9-methoxy-8-(3,3-dimethylallyl)-12ahydroxy rotenoid C<sub>23</sub>H<sub>22</sub>O<sub>7</sub> (410.43). White crystals (CH<sub>2</sub>Cl<sub>2</sub>), mp 162–164°C, [α]<sub>D</sub><sup>20</sup> = +342° (c = 0.6, MeOH). **Pharm:** Antimalarial (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*, IC<sub>50</sub> = 25.8 μmol/L, control Chloroquine, IC<sub>50</sub> = 0.094 μmol/L, control Quinine, IC<sub>50</sub> = 0.209 μmol/L; chloroquine-sensitive D6 strain of *Plasmodium falciparum*, IC<sub>50</sub> = 70.1 μmol/L, control Chloroquine, IC<sub>50</sub> = 0.009 μmol/L, control Quinine, IC<sub>50</sub> = 0.044 μmol/L). **Source:** *Millettia usaramensis* ssp. *usaramensis*. **Ref:** 3454.

**22280 Uscharidin**

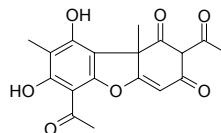
[20304-48-7] C<sub>29</sub>H<sub>38</sub>O<sub>9</sub> (530.62). **Pharm:** Toxin (vertebrate); LD<sub>50</sub> (cat, iv) = 1.4 mg/kg, (male Swiss Webster mus, ip) = 11.8 mg/kg. **Source:** CHANG NIU JIAO GUA *Calotropis procera*. **Ref:** 658.

**22281 (–)-Usnic acid**

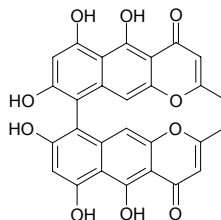
C<sub>18</sub>H<sub>16</sub>O<sub>7</sub> (344.32). Yellow powder, [α]<sub>D</sub><sup>20</sup> = –486° (c = 0.4, CHCl<sub>3</sub>). **Pharm:** Cytotoxic (L1210, IC<sub>50</sub> = (6.0±0.5) μg/mL, control Etoposide, IC<sub>50</sub> = (0.3±0.2) μg/mL; 3LL, IC<sub>50</sub> = (12.1±3.7) μg/mL, Etoposide, IC<sub>50</sub> = (2.6±0.8) μg/mL; DU145, IC<sub>50</sub> = (15.8±2.4) μg/mL, Etoposide, IC<sub>50</sub> = (0.9±0.2) μg/mL; MCF7, IC<sub>50</sub> = (17.8±2.5) μg/mL, Etoposide, IC<sub>50</sub> = (12.2±0.5) μg/mL; K562, IC<sub>50</sub> = (8.2±1.3) μg/mL, Etoposide, IC<sub>50</sub> = (2.1±1.3) μg/mL; U251, IC<sub>50</sub> = (6.8±1.6) μg/mL, Etoposide, IC<sub>50</sub> = (0.28±0.06) μg/mL). **Source:** ZONG JUAN SHI RUI *Cladonia convoluta*. **Ref:** 5027.

**22282 Usnic acid**

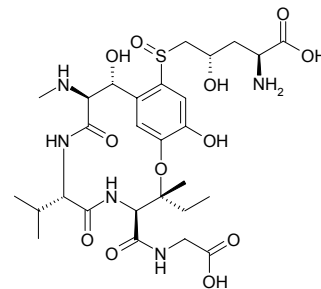
Usnic acid [125-46-2] C<sub>18</sub>H<sub>16</sub>O<sub>7</sub> (344.32). mp 202–204°C. **Pharm:** Antibacterial (*Diplococcus pneumoniae*, *Bacillus diphtheriae*, *Mycobacterium tuberculosis* and hemolytic streptococcus *in vitro*, EC = 1–5 μg/mL, CIC = 50 μg/mL, hmn *Mycobacterium tuberculosis in vitro*, CIC = 20–50 μg/mL, *Bacillus pertussis*, *Bacillus subtilis*, *Bacillus coli* and *Bacillus proteus*); antineoplastic (rat, ascites carcinoma AH130 and AH1974); novel α-glycero-phosphoric acid tetrazole reductase inhibitor (mitochondria); anti-inflammatory; antiprotozoal and *Trichomonas vaginalis*; antispasmodic (gpg aorta, *in vitro*, 0.6 mmol/L, action of antihistamine); used in treatment of suppurated wound, burn, and skin infection; LD<sub>50</sub> (mus, iv) = 25 mg/kg, (mus, sc, *d*-usnic acid) = 700 mg/kg, (mus, sc, usnic acid sodium) = 35 mg/kg, (rbt, iv, *D*-usnic acid) = 30 mg/kg, (rbt, orl, usnic acid sodium) = 100–150 mg/kg, (dog iv) = 40 mg/kg. **Source:** JIN SHUA BA *Cladonia fallax*, SONG LUO *Usnea longissima*, HUAN JIE SONG LUO *Usnea diffracta*, TAI BAI HUA *Cladonia stellaris* [Syn. *Cladonia alpestris*], *Cladonia* sp. **Ref:** 4, 658, 660.

**22283 Ustilaginoidin A**

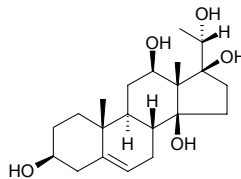
C<sub>28</sub>H<sub>18</sub>O<sub>10</sub> (514.45). mp > 300°C. **Source:** JING GU NU *Ustilagoidea vires*. **Ref:** 6.

**22284 Ustiloxin**

C<sub>28</sub>H<sub>43</sub>N<sub>5</sub>O<sub>12</sub>S (673.75). **Source:** JING GU NU *Ustilagoidea vires*. **Ref:** 660.

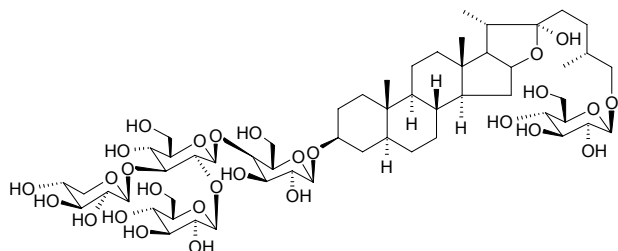
**22285 Utendin**

[28417-32-5] C<sub>21</sub>H<sub>34</sub>O<sub>5</sub> (366.50). **Source:** LUO MO *Metaplexis japonica*. **Ref:** 6, 1521.

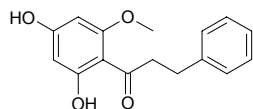


**22286 Uttroside B**

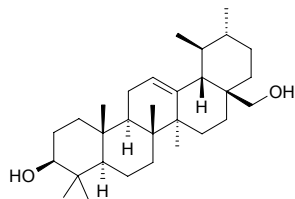
26-*O*- $\beta$ -D-Glucopyranosyl-(25*R*)-5 $\alpha$ -furost-3 $\beta$ ,22 $\alpha$ ,26-triol 3-*O*- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)-[ $\beta$ -D-xylopyranosyl-(1 $\rightarrow$ 3)]- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-galactopyranoside C<sub>56</sub>H<sub>94</sub>O<sub>28</sub> (1215.36). **Pharm:** Cytotoxic (*in vitro*, HeLa, IC<sub>50</sub> = 18.8  $\mu$ g/mL; control *cis*-Platin, IC<sub>50</sub> = 0.75  $\mu$ g/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (tuber: yield = 0.0043%fw). **Ref:** 3002.

**22287 Uvangoletin**

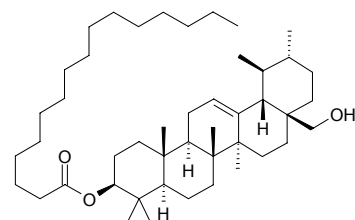
[76444-56-9] C<sub>16</sub>H<sub>16</sub>O<sub>4</sub> (272.30). Needles (EtOAc–petroleum ether), mp 189–190°C, colorless crystals, mp 185–187°C (CHCl<sub>3</sub>). **Pharm:** Cytotoxic inactive (hmn promyelocytic leukemia HL-60 cells, IC<sub>50</sub> > 50  $\mu$ mol/L)<sup>[4261]</sup>. **Source:** GUAN ZI YU PAN *Uvaria angolensis*, JIAN ZI YU PAN *Uvaria acuminata* (root), YANG PU TAO YE *Syzygium samarangense*. **Ref:** 1521, 4100, 4261.

**22288 Uvaol**

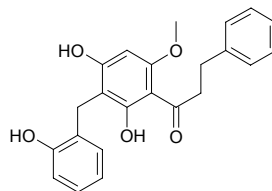
[545-46-0] C<sub>30</sub>H<sub>50</sub>O<sub>2</sub> (442.73). mp 233°C. **Source:** DA YE DONG QING *Ilex latifolia*. **Ref:** 6.

**22289 Uvaol 3-*O*-palmitate**

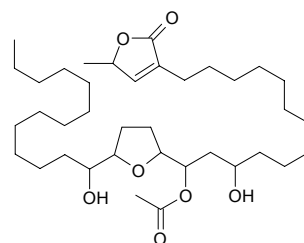
C<sub>46</sub>H<sub>80</sub>O<sub>3</sub> (681.15). **Source:** HUANG LONG DAN *Gentiana lutea* (rhizome and root). **Ref:** 4307.

**22290 Uvaretin**

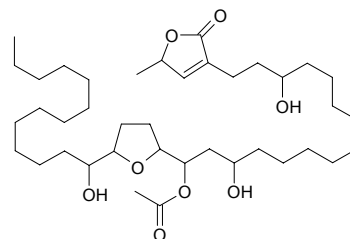
[58449-06-2] C<sub>23</sub>H<sub>22</sub>O<sub>5</sub> (378.43). Colorless crystals, mp 167–169°C (CHCl<sub>3</sub>). **Pharm:** Cytotoxic (hmn promyelocytic leukemia HL-60 cells, IC<sub>50</sub> = 9.3  $\mu$ mol/L)<sup>[4261]</sup>; antimicrobial. **Source:** GUAN ZI YU PAN *Uvaria angolensis*, JIAN ZI YU PAN *Uvaria acuminata* (root). **Ref:** 658, 4261.

**22291 Uvaribonianin**

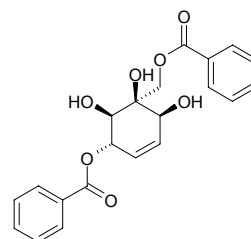
C<sub>37</sub>H<sub>66</sub>O<sub>7</sub> (622.93). Colorless gelatinoid, [ $\alpha$ ]<sub>D</sub><sup>15</sup> = +13° (*c* = 0.01, chloroform). **Source:** GUANG YE ZI YU PAN *Uvaria boniana*. **Ref:** 355.

**22292 Uvaribonin**

C<sub>30</sub>H<sub>70</sub>O<sub>8</sub> (666.99). White waxy solid, mp 50–52°C, [ $\alpha$ ]<sub>D</sub><sup>15</sup> = +13° (*c* = 0.02, chloroform). **Source:** GUANG YE ZI YU PAN *Uvaria boniana*. **Ref:** 355.

**22293 Uvaribonol D**

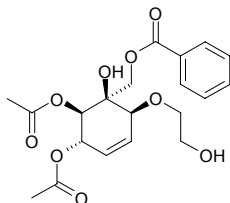
C<sub>21</sub>H<sub>20</sub>O<sub>7</sub> (384.39). White solid, mp 65–67°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +40.1° (*c* = 0.02, methanol). **Source:** GUANG YE ZI YU PAN *Uvaria boniana*. **Ref:** 406.



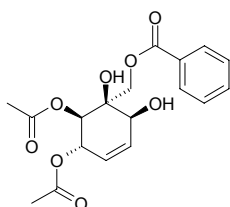


**22294 Uvaribonol E**

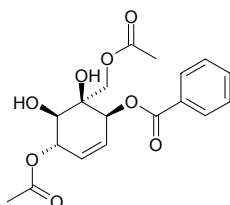
$C_{20}H_{24}O_9$  (408.41). White solid, mp 125~127°C,  $[\alpha]_D^{24} = -33.4^\circ$  ( $c = 0.04$ , methanol). Source: GUANG YE ZI YU PAN *Uvaria boniana*. Ref: 406.

**22295 Uvaribonol F**

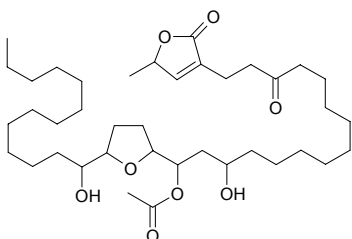
$C_{18}H_{20}O_8$  (364.36). White acicular crystals, mp 148~149°C,  $[\alpha]_D^{24} = +40.0^\circ$  ( $c = 0.02$ , methanol). Source: GUANG YE ZI YU PAN *Uvaria boniana*. Ref: 406.

**22296 Uvaribonol G**

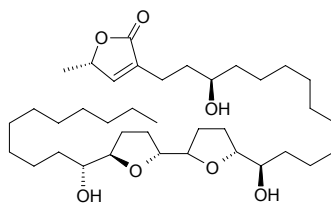
$C_{18}H_{20}O_8$  (364.32). White prismatic crystals, mp 98~100°C,  $[\alpha]_D^{24} = -120.6^\circ$  ( $c = 0.07$ , methanol). Source: GUANG YE ZI YU PAN *Uvaria boniana*. Ref: 406.

**22297 Uvaribonone**

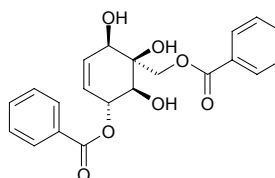
$C_{39}H_{68}O_8$  (664.97). White waxy solid, mp 42~44°C,  $[\alpha]_D^{15} = +15^\circ$  ( $c = 0.06$ , chloroform). Source: GUANG YE ZI YU PAN *Uvaria boniana*. Ref: 355.

**22298 Uvarigrandin A**

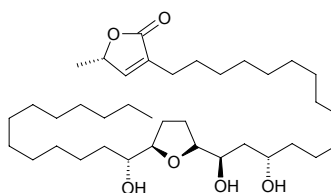
$C_{37}H_{66}O_7$  (622.93). White waxy solid. Source: DA HUA ZI YU PAN *Uvaria grandiflora*. Ref: 378.

**22299 Uvarigranol G**

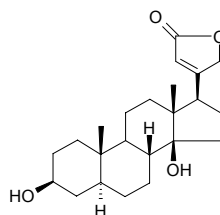
$C_{21}H_{20}O_7$  (384.39). Pharm: Cytotoxic (MTT assay, A549 bronchogenic carcinoma cell,  $IC_{50} = 28\mu\text{g/mL}$ , SK-MES-1 bronchogenic carcinoma cell,  $IC_{50} = 26\mu\text{g/mL}$ , NCI-H446 bronchogenic carcinoma cell,  $IC_{50} = 30\mu\text{g/mL}$ )<sup>[4481]</sup>. Source: DA HUA ZI YU PAN *Uvaria grandiflora*, LIU GUO ZI YU PAN *Uvaria kweichowensis* (leaf). Ref: 1521, 4481.

**22300 Uvarigrin**

$C_{37}H_{68}O_6$  (608.95). Colorless lamellar crystals (acetone), mp 85~86°C,  $[\alpha]_D^{21} = +30.5^\circ$  ( $c = 0.02$ , methanol). Source: DA HUA ZI YU PAN *Uvaria grandiflora*. Ref: 378.

**22301 Uzarigenin**

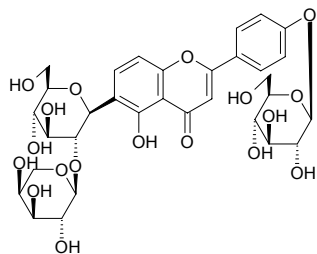
[466-09-1]  $C_{23}H_{34}O_4$  (374.53). mp 246°C. Pharm: Cardiotonic; cytotoxic (KB,  $EC = 1.0\text{--}3.5\mu\text{g/mL}$ ); diuretic. Source: LIAN SHENG GUI ZI HUA *Asclepias curassavica*, BIAN BAI MA LI JIN *Asclepias albicans*. Ref: 5, 6, 658.



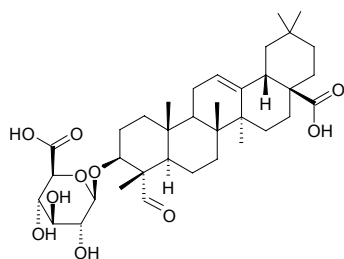
## V

**22302 Vaccarin**

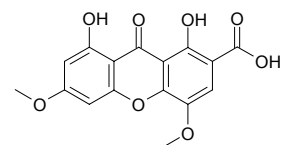
$C_{32}H_{38}O_{18}$  (710.65). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 660.

**22303 Vaccaroside**

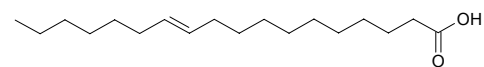
Gypsogenin-3- $\beta$ -D-glucuronoside  $C_{36}H_{54}O_{10}$  (646.83). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 660.

**22304 Vaccaxanthone**

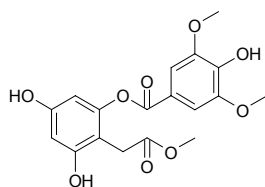
$C_{16}H_{12}O_8$  (332.27). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 660.

**22305 Vaccenic acid**

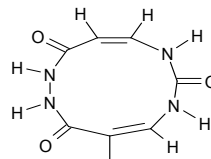
[693-72-1]  $C_{18}H_{34}O_2$  (282.47). Pharm: Growth-Stimulating factor (rat). Source: XU LI YA MA LI JIN *Asclepias syriaca*. Ref: 658.

**22306 Vaccihehin A**

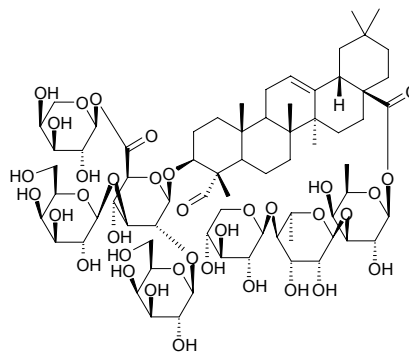
$C_{18}H_{18}O_9$  (378.34). White powder. Pharm: Antioxidant (ferric thiocyanate method, moderate activity); DPPH scavenger. Source: *Vaccinium ashei* (fruit). Ref: 4240.

**22307 Vachellin**

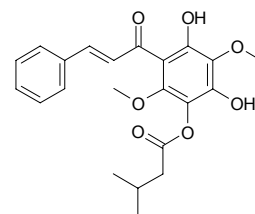
$C_8H_{10}N_4O_3$  (210.19). White powder, mp 228~230°C. Source: WA SHI MA WEI ZAO *Sargassum vachellianum*. Ref: 837.

**22308 Vacsegoside B**

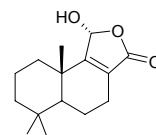
$C_{70}H_{110}O_{36}$  (1527.64). Source: WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*]. Ref: 660.

**22309 Valalofone**

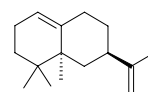
$C_{22}H_{24}O_7$  (400.43). Source: YU LIAO *Polygonum lapathifolium*. Ref: 660.

**22310 Valdiviolide**

$C_{15}H_{22}O_3$  (250.34). Source: SHUI LIAO *Polygonum hydropiper*. Ref: 660.

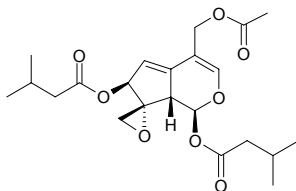
**22311 Valencene**

[4630-07-3]  $C_{16}H_{26}$  (218.39). bp 123°C/11mmHg. Source: GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*], SHANG ZUO JIAN YE GUANG E TAI *Porella acutifolia* ssp. *tosana*. Ref: 2, 660, 3932.

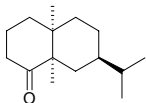


**22312 Valepotriate**

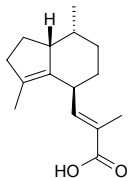
Valtrate; Valtratum [18296-44-1]  $C_{22}H_{30}O_8$  (422.48). **Pharm:** Sedative. **Source:** CHANG XU XIE CAO *Valeriana hardwickii* (root and rhizome: content = 2.3%)<sup>[5508]</sup>, HEI SHUI XIE CAO *Valeriana amurensis* (root and rhizome: content = 3.1%)<sup>[5508]</sup>, KUO YE XIE CAO *Valeriana officinalis* var. *latifolia* (root and rhizome: content = 2.7%)<sup>[5508]</sup>, MAO JIE XIE CAO *Valeriana alternifolia* var. *stolonifera* (root and rhizome: content = 2.9%)<sup>[5508]</sup>, XIE CAO *Valeriana officinalis* (root and rhizome: content = 1.1%)<sup>[5508]</sup>, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*] (rhizome and root: yield = 0.000040%dw), *Valeriana* spp., *Centranthus* spp. **Ref:** 6, 658, 660, 4672, 5508.

**22313 Valeranone**

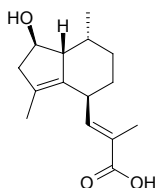
Jatamansone [5090-54-0]  $C_{15}H_{26}O$  (222.37). bp (-) 155–156°C/11mmHg. **Source:** GAN SONG *Nardostachys chinensis*, XIE CAO *Valeriana officinalis*, KUO YE XIE CAO *Valeriana officinalis* var. *latifolia*. **Ref:** 6, 660.

**22314 Valerenic acid**

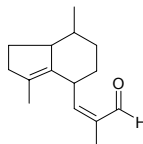
[3569-10-6]  $C_{15}H_{22}O_2$  (234.34). mp 140–142°C. **Pharm:** Antispasmodic; CNS depressant. **Source:** CHANG XU XIE CAO *Valeriana hardwickii* (root and rhizome: content = 0.00007%)<sup>[5508]</sup>, KUO YE XIE CAO *Valeriana officinalis* var. *latifolia* (root and rhizome: content = 0.00053%)<sup>[5508]</sup>, XIE CAO *Valeriana officinalis* (root and rhizome: content = 0.08%)<sup>[5508]</sup>. **Ref:** 6, 658, 660, 5508.

**22315 Valerenolic acid**

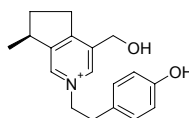
[1619-16-5]  $C_{15}H_{22}O_3$  (250.34). mp 171–173°C. **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6, 660, 1521.

**22316 Valerenone**

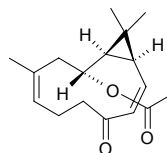
$C_{15}H_{22}O$  (218.34). bp 87–89°C/0.05mmHg. **Source:** XIE CAO *Valeriana officinalis* (root and rhizome: content = 0.01%)<sup>[5508]</sup>. **Ref:** 6, 5508.

**22317 Valerianae alkaloid B**

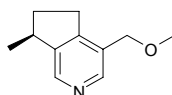
$C_{18}H_{22}NO_2$  (284.38). mp 220–227°C (dec). **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6.

**22318 Valeriana-sesquiterpene CPB2006542**

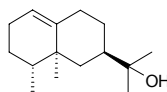
$C_{17}H_{24}O_3$  (276.38). White powder. **Pharm:** Neurite outgrowth enhancer (PC 12D cells, NGF-induced). **Source:** XIE CAO *Valeriana officinalis* (rhizome and root: yield = 0.0002%). **Ref:** 915.

**22319 Valerianine**

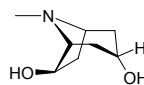
[30634-66-3]  $C_{11}H_{15}NO$  (177.25). mp 134°C. **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6.

**22320 Valerianol**

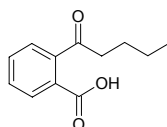
[20489-45-6]  $C_{15}H_{26}O$  (222.37). bp 120°C/0.01mmHg. **Source:** XIE CAO *Valeriana officinalis*. **Ref:** 6, 1521.

**22321 Valerine**

$C_8H_{15}NO_2$  (157.21). mp 209–210°C. **Pharm:** Antibacterial (gram-positive bacteria). **Source:** XIE CAO *Valeriana officinalis*, BI LU GU KE *Erythroxylum novogranatense*. **Ref:** 6, 658.

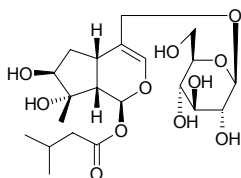
**22322 n-Valerophenone-O-carboxylic acid**

[550-37-8]  $C_{12}H_{14}O_3$  (206.24). **Source:** DANG GUI *Angelica sinensis*. **Ref:** 2.

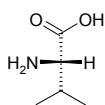


**22323 Valerosidatum**

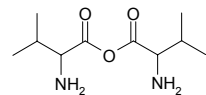
[29505-31-5]  $C_{21}H_{34}O_{11}$  (462.50). mp 78~80°C. Source: XIE CAO *Valeriana officinalis*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. Ref: 6.

**22324 Valine**

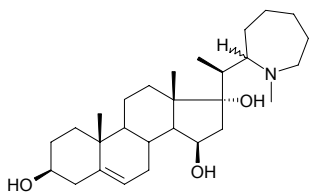
$C_5H_{11}NO_2$  (117.15). Source: BAN XIA *Pinellia ternata* (dried tuber: content scope of 4 origins = 0.43%~1.11%, mean content = 0.84%), widely distributed in nature (as one of the principal protein amino acids). Ref: 660, 5521.

**22325 L-Valine-L-valine anhydride**

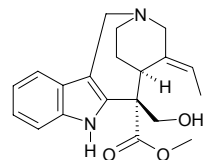
$C_{10}H_{20}N_2O_3$  (216.28). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 2.

**22326 Valivine**

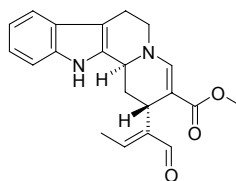
$C_{28}H_{47}NO_3$  (445.69). Source: XIN JIANG BEI MU *Fritillaria walujewii*. Ref: 660.

**22327 19,20-(E)-Vallesamine**

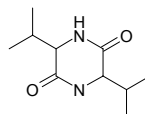
$C_{20}H_{24}N_2O_3$  (340.43). Source: XIANG PI MU *Alstonia scholaris* (leaf). Ref: 5283.

**22328 Vallesiachotamine**

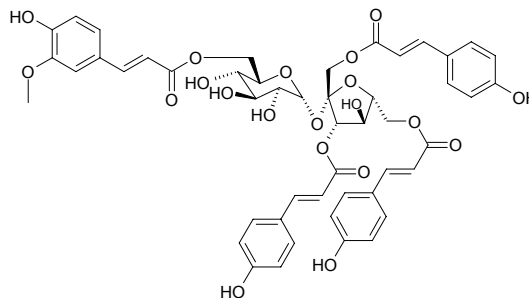
[5523-37-5]  $C_{21}H_{22}N_2O_3$  (350.42). Source: GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*]. Ref: 2.

**22329 L-Valyl-L-valine anhydride**

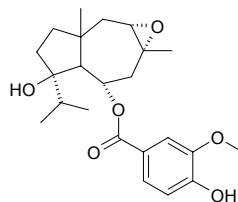
$C_{10}H_{18}N_2O_2$  (198.27). Source: ZHANG YE BAN XIA *Pinellia pedatisecta*. Ref: 660.

**22330 Vanicoside B**

$C_{49}H_{48}O_{20}$  (956.92). Amorphous powder,  $[\alpha]_D = 29.47^\circ$  ( $c = 0.54$ , MeOH). Source: YU LIAO *Polygonum lapathifolium* (aerial parts). Ref: 3091.

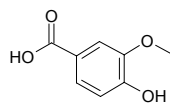
**22331 5α-Vanillate of 2,3-epoxy-jaeschkeanadiol**

$C_{23}H_{32}O_6$  (404.51). Source: YI LANG A WEI *Ferula kuhistanica* (stem). Ref: 3977.

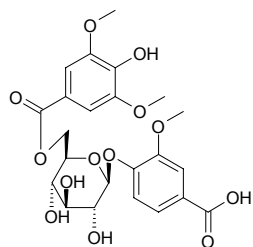


**22332 Vanillic acid**

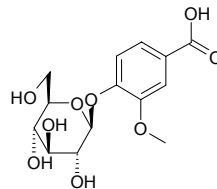
*p*-Hydroxy-*m*-methoxy-benzonic acid [121-34-6] C<sub>8</sub>H<sub>8</sub>O<sub>4</sub> (168.15). mp 210°C (sub). **Pharm:** Antibacterial; antifungal; anti-inflammatory (*in vitro*); anti-sickling of cells; anthelmintic; DPPH scavenger (SC<sub>50</sub> = 60 μmol/L)<sup>[4247]</sup>; antioxidant (superoxide anion radical scavenger, superoxide dismutase method, IC<sub>50</sub> for Formazan formation activity > 100 μmol/L)<sup>[4247]</sup>; NO production inhibitor (*in vitro*, LPS-activated mouse peritoneal macrophages, 3, 10, 30, 100 μmol/L, InRt = 16.2%, 8.2%, -3.6%, 5.9%, respectively; control *L*-NMMA, 3 μmol/L, 10 μmol/L, 30 μmol/L, 100 μmol/L, InRt = 10.3%, 15%, 34.1%, 63.1%, respectively)<sup>[4691]</sup>; antioxidant (DPPH free radical scavenger, EC<sub>50</sub> > 50 μg/mL, 50 μg/mL InRt = 43%, control Ascorbic acid, EC<sub>50</sub> = 1.6 μg/mL = 9.1 μmol/L)<sup>[4154]</sup>; antioxidant (DPPH free radical scavenger, IC<sub>50</sub> = 59.4 μmol/L, control Vitamin E, IC<sub>50</sub> = 27.0 μmol/L)<sup>[4502]</sup>; cytotoxic (P<sub>388</sub>, ED<sub>50</sub> > 50 μg/mL, control Mithramycin, ED<sub>50</sub> = 0.58 μg/mL; A549, ED<sub>50</sub> > 50 μg/mL, Mithramycin, ED<sub>50</sub> = 0.073 μg/mL; HT29, ED<sub>50</sub> > 50 μg/mL, Mithramycin, ED<sub>50</sub> = 0.076 μg/mL)<sup>[5421]</sup>; cytotoxic inactive (*in vitro*, LNCaP, IC<sub>50</sub> > 100 μmol/L)<sup>[4607]</sup>; β-hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (12.1 ± 1.5)%)<sup>[4304]</sup>; β-hexosaminidase inhibitor inactive (RBL-2H3 cells, inhibits release of β-hexosaminidase, 100 μmol/L, InRt = (-6.6 ± 6.0)%)<sup>[4347]</sup>. **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part), GUA LOU *Trichosanthes kirilowii*, GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.0006%)<sup>[4706]</sup>, XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (dried rhizome: content scope = 1.40%~3.32%)<sup>[5508]</sup>, KAI KOU JIAN *Tupistra chinensis* (underground part)<sup>[4676]</sup>, LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.0008% dw)<sup>[4607]</sup>, MAO GUO QI *Acer nikoense* (stem cortex), MO ZHI JIAO GU CUI *Casearia membranacea* (stem), QIANG HUO *Notopterygium incisum*, RI BEN HUANG BAI *Phellodendron japonicum* (leaf), TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.00032% dw)<sup>[4722]</sup>, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), XI ZANG HU HUANG LIAN *Picrorhiza scrophulariiflora* (dried rhizome: content scope = 1.40%~3.32%)<sup>[5508]</sup>, XIAN REN ZHANG *Opuntia dillenii* (fresh stem: yield = 0.00035%)<sup>[4247]</sup>, XIAO HONG SHEN *Rubia yunnanensis* (root: yield = 0.0019% dw)<sup>[4691]</sup>. **Ref:** 507, 1521, 2529, 4154, 4247, 4304, 4347, 4483, 4488, 4502, 4607, 4676, 4691, 4706, 4722, 5421, 5501, 5508

**22333 1-O-Vanillic acid-6-O-(3'',5''-dimethoxy-galloyl)-β-D-glycoside**

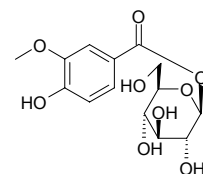
C<sub>23</sub>H<sub>26</sub>O<sub>13</sub> (510.46). White needles (MeOH), mp 234~235°C. **Source:** DA XUE TENG *Sargentodoxa cuneata* (stem). **Ref:** 4870.

**22334 Vanillic acid 4-O-β-D-glucopyranoside**

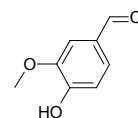
C<sub>14</sub>H<sub>18</sub>O<sub>9</sub> (330.29). **Source:** HAI ZHOU GU SUI BU *Davallia mariesii*. **Ref:** 660.

**22335 Vanillic acid β-D-glucopyranosyl ester**

C<sub>14</sub>H<sub>18</sub>O<sub>9</sub> (330.29). **Source:** SUO SHA MI *Amomum xanthioides* (seed). **Ref:** 4365.

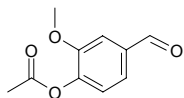
**22336 Vanillin**

[121-33-5] C<sub>8</sub>H<sub>8</sub>O<sub>3</sub> (152.15). mp 80~81°C. **Pharm:** Antifungal; sedative (mus, ip, 200mg/kg, clearly inhibits spontaneous motion); hypnotic (mus, ip, 200mg/kg, potentiates hypnotic effect of hexobarbital); anticonvulsant (rbt, iv, 40mg/kg, raises electroconvulsive threshold value; mouse ip, 300mg/kg, anti-convulsion induced by corazol); antioxidant (DPPH free radical scavenger, IC<sub>50</sub> > 200 μmol/L, control Caffeic acid, IC<sub>50</sub> = 25.5 μmol/L)<sup>[5407]</sup>; NO production inhibitor (IC<sub>50</sub> > 200 μmol/L, control *L*-NMMA, IC<sub>50</sub> = 28.5 μmol/L)<sup>[5407]</sup>; platelet aggregation inhibitor (washed rabbit platelets, 100 μg/mL, 100 μmol/L AA-induced, InRt = 100%, control 50 μmol/L Aspirin, InRt = 100%; 10 μg/mL collagen-induced, InRt = 6.9%, 100 μmol/L Aspirin, InRt = 4.9%; 0.1 U/mL Thrombin-induced, InRt = 1.9%, 100 μmol/L Aspirin, InRt = 1.7%; 2 ng/mL PAF-induced, InRt = 3.8%, 100 μmol/L Aspirin, InRt = 2.1%)<sup>[5427]</sup>; LD<sub>50</sub> (mus, ip) = 946 mg/kg, (rat, orl) = 3000 mg/kg. **Source:** AN XI XIANG *Styrax benzoin*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], DANG GUI *Angelica sinensis*, DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], KAI KOU JIAN *Tupistra chinensis* (underground part), KONG SHI CHUN *Ulva pertusa*, LI MENG *Citrus limonia*, MAN JING ZI *Vitex trifolia*, MU ZEI *Equisetum hiemale*, SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome), SU HE XIANG *Liquidambar orientalis*, TAI WAN FU RONG *Hibiscus taiwanensis*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), TIAN MA *Gastrodia elata*, XIANG ZI LAN *Vanilla planifolia*, XIN JIANG GAO BEN *Conioselinum vaginatum*, YI ZHU QIAN MA *Urtica dioica*, YIN CHEN HAO *Artemisia capillaris*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood), *Ruta* sp., *Spiraea* sp., *Gymnadenia* sp., *Vanilla* sp., *Dahlia* sp., *Asparagus* sp., *Beta* sp., occurs in many plants. **Ref:** 2, 4, 333, 648, 658, 660, 2529, 4488, 4676, 5407, 5427, 5501.

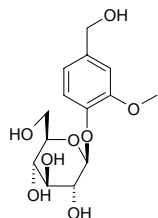


**22337 Vanillin acetate**

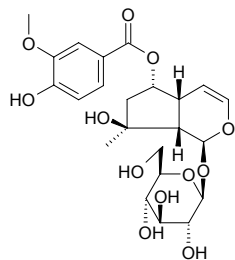
[881-68-5] C<sub>10</sub>H<sub>10</sub>O<sub>4</sub> (194.19). Source: CHAI HU *Bupleurum chinense*. Ref: 2.

**22338 Vanilloside**

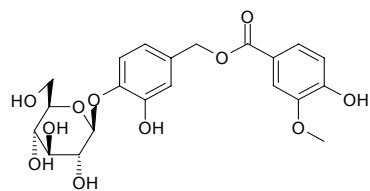
C<sub>14</sub>H<sub>20</sub>O<sub>8</sub> (316.31). Pharm: Proliferation stimulator (B cells *in vitro*, 0.00001mol/L,  $p < 0.05$ ); proliferation inhibitor (T cells *in vitro*, 0.0000001mol/L,  $p < 0.05$ , without any obvious cytotoxic effects). Source: XI JING SHI HU *Dendrobium moniliforme* (stem: yield = 0.0003%dw). Ref: 4717.

**22339 6-O-Vanilloylajugol**

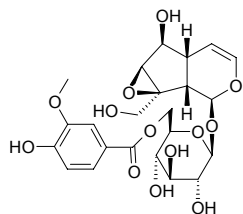
C<sub>23</sub>H<sub>30</sub>O<sub>12</sub> (498.49). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

**22340 Vanilloyl calleryanin**

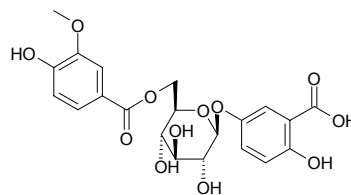
C<sub>21</sub>H<sub>24</sub>O<sub>11</sub> (452.42). Source: YE LI ZHI YE *Pyrus calleryana*. Ref: 6.

**22341 6'-O-Vanilloyl catalpol**

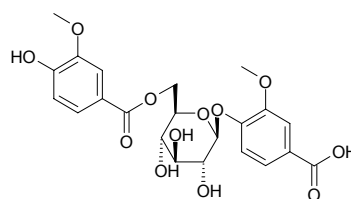
C<sub>23</sub>H<sub>28</sub>O<sub>13</sub> (512.47). Source: HU HUANG LIAN *Picrorhiza kurrooa*. Ref: 660.

**22342 5-O-β-D-(6-O-Vanilloyl glucopyranosyl) gentisic acid**

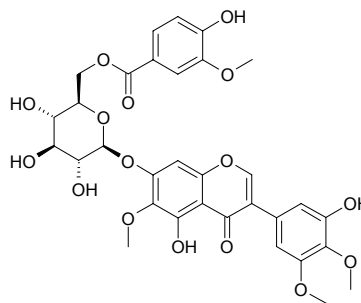
C<sub>21</sub>H<sub>22</sub>O<sub>12</sub> (466.40). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 660.

**22343 4-O-β-D-(6-O-Vanilloyl glucopyranosyl) vanillic acid**

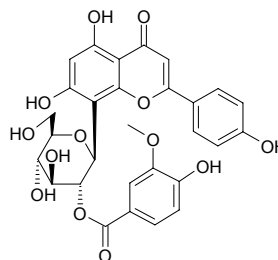
C<sub>22</sub>H<sub>24</sub>O<sub>12</sub> (480.43). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 660.

**22344 6''-O-Vanilloyliridin**

C<sub>32</sub>H<sub>32</sub>O<sub>16</sub> (672.60). Pale yellow amorphous powder,  $[\alpha]_D^{20} = +5.7^\circ$  ( $c = 1.0$ , MeOH). Source: SHE GAN *Belamcanda chinensis* (rhizome). Ref: 4128.

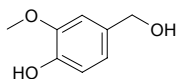
**22345 2''-O-Vanilloylvitexin**

C<sub>29</sub>H<sub>26</sub>O<sub>13</sub> (582.52). Yellow powder, mp 266–267°C,  $[\alpha]_D^{20} = -221.1^\circ$  ( $c = 0.038$ , MeOH). Source: DUAN BAN JIN LIAN HUA *Trollius ledebourii* (flower). Ref: 5278.

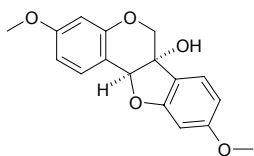


**22346 Vanillyl alcohol**

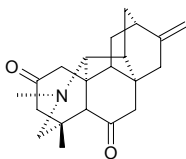
4-Hydroxy-3-methoxybenzyl alcohol [498-00-0] C<sub>8</sub>H<sub>10</sub>O<sub>3</sub> (154.17). mp 115°C. **Pharm:** Sedative (mus, ip, 200mg/kg, clearly inhibits spontaneous motion); hypnotic (mus, ip, 200mg/kg, potentiates hypnotic effect of hexobarbital); anticonvulsant (rbt, iv, 400mg/kg, raises electroconvulsive threshold value, effective arrest effectively arrests epilepsy attack, control epileptic discharge in electro-encephalogram, anticonvulsant caused by corazol); choleric (bile secretion promotor); LD<sub>50</sub> (mouse, ip) = (891.3±31.7)mg/kg. **Source:** TIAN MA *Gastrodia elata*. **Ref:** 4, 5501.

**22347 (-)-Variabilin**

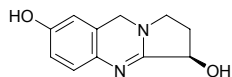
[3187-52-8] C<sub>17</sub>H<sub>16</sub>O<sub>5</sub> (300.32). **Pharm:** Antifungal. **Source:** YI BIAN HUANG TAN *Dalbergia variabilis*. **Ref:** 658.

**22348 Variegatine**

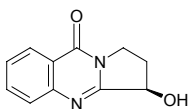
C<sub>21</sub>H<sub>27</sub>NO<sub>2</sub> (325.45). Amorphous solid, [α]<sub>D</sub><sup>20</sup> = +20.5° (c = 0.41, CHCl<sub>3</sub>). **Source:** BAN HUA WU TOU *Aconitum variegatum* (aerial parts). **Ref:** 5270.

**22349 Vasicinol**

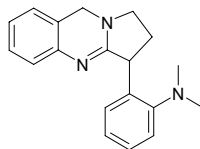
[5081-51-6] C<sub>11</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub> (204.23). mp 260°C. **Pharm:** Reduces fertility in insects; antihistamine; cholinesterase inhibitor; insect antifeedant; antihypertensive. **Source:** DA BO GU *Adhatoda vasica*, HUANG HUA ZI *Sida cordifolia*. **Ref:** 6, 658.

**22350 Vasicinone**

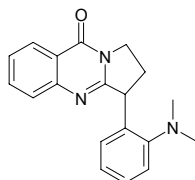
*L*-Vasicinone; (*R*)-2,3-Dihydro-3-hydroxy-pyrrolo[2,1-*b*]quinazolin-9(1*H*)-one [486-64-6] C<sub>11</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub> (202.21). mp (-) 200~201°C, (±) 211~212°C. **Pharm:** Antiallergic; antispasmodic (gpg, bronchial contraction induced by histamine). **Source:** DA BO GU *Adhatoda vasica*, HUANG HUA ZI *Sida cordifolia*, LUO TUO HAO *Peganum nigellastrum*, LUO TUO PENG *Peganum harmala*, LUO TUO PENG ZI *Peganum harmala*. **Ref:** 6, 658.

**22351 Vasicoline**

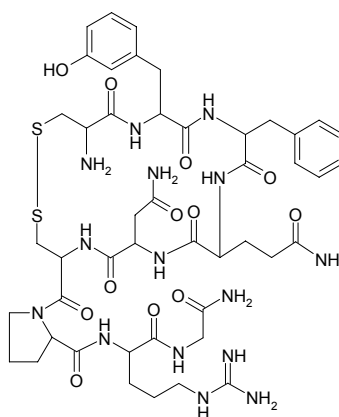
[33903-13-8] C<sub>19</sub>H<sub>21</sub>N<sub>3</sub> (291.40). mp 135°C. **Source:** DA BO GU *Adhatoda vasica*. **Ref:** 6.

**22352 Vasicolinone**

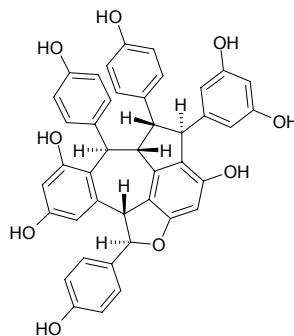
[33903-15-0] C<sub>19</sub>H<sub>19</sub>N<sub>3</sub>O (305.38). mp 152°C. **Source:** DA BO GU *Adhatoda vasica*. **Ref:** 6.

**22353 Vasopressin**

C<sub>46</sub>H<sub>65</sub>N<sub>15</sub>O<sub>12</sub>S<sub>2</sub> (1084.25). **Source:** NIU NAO *Bos taurus domesticus*; *Bubalus bubalis*. **Ref:** 6.

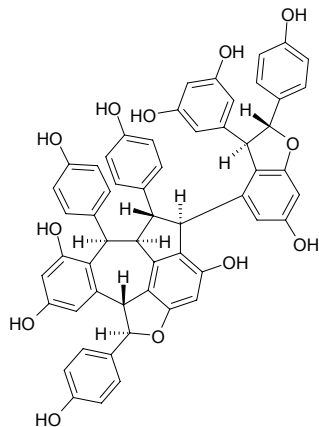
**22354 Vaticanol A**

C<sub>42</sub>H<sub>32</sub>O<sub>9</sub> (680.72). Pale yellow amorphous solid, [α]<sub>D</sub><sup>24</sup> = -165° (c = 0.1, MeOH). **Source:** QING MEI *Vatica rassak* (stem cortex). **Ref:** 3950.

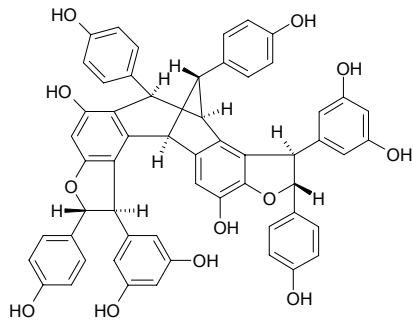


**22355 Vaticanol B**

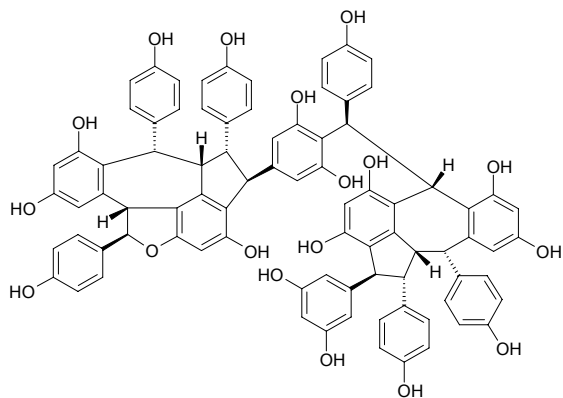
$C_{56}H_{42}O_{12}$  (906.95). Pale yellow amorphous solid,  $[\alpha]_D^{25} = -14^\circ$  ( $c = 0.1$ , MeOH). Source: QING MEI *Vatica rassak* (stem cortex). Ref: 3950.

**22356 Vaticanol C**

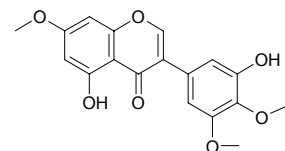
$C_{56}H_{42}O_{12}$  (906.95). Pale yellow amorphous solid,  $[\alpha]_D^{25} = -38^\circ$  ( $c = 0.1$ , MeOH). Source: QING MEI *Vatica rassak* (stem cortex). Ref: 3950.

**22357 Vaticanol D**

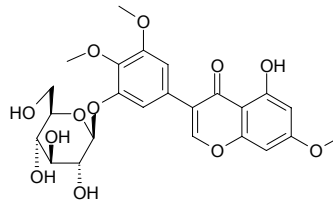
$C_{84}H_{64}O_{18}$  (1361.44). Source: QING MEI *Vatica rassak*. Ref: 2234.

**22358 Vavain**

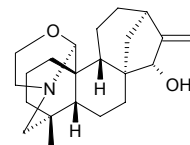
Pentandrin  $C_{18}H_{16}O_7$  (344.32). Pale yellow amorphous powder (MeOH); mp 162~163°C. Source: JI BEI *Ceiba pentandra* (bark). Ref: 4171.

**22359 Vavain 3'-O-β-D-glucopyranoside**

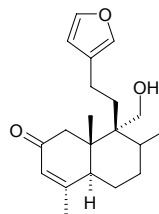
Pentandrin glucoside  $C_{24}H_{26}O_{12}$  (506.47). White amorphous powder (MeOH), mp 127~128°C,  $[\alpha]_D^{20} = -14.5^\circ$  ( $c = 0.2$ , pyridine),  $-4.0^\circ$  ( $c = 0.1$ , EtOH). Source: JI BEI *Ceiba pentandra* (bark). Ref: 4171.

**22360 Veatchine**

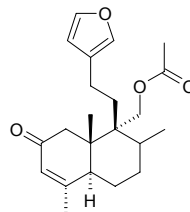
[76-53-9]  $C_{22}H_{33}NO_2$  (343.51). Pharm: Toxin (causes asthma, convulsion and breath faintness). Source: *Garrya veatchii*. Ref: 658.

**22361 Velamolone**

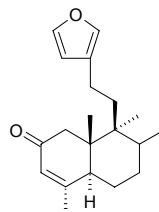
$C_{20}H_{28}O_3$  (316.44). Source: PING YUAN BA DOU *Croton campestris*. Ref: 4552.

**22362 Velamolone acetate**

$C_{22}H_{30}O_4$  (358.48). Source: PING YUAN BA DOU *Croton campestris*. Ref: 4552.

**22363 Velamone**

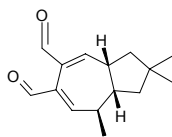
$C_{20}H_{28}O_2$  (300.44). Source: PING YUAN BA DOU *Croton campestris*. Ref: 4552.



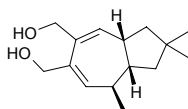


**22364 Velleral**

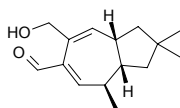
$C_{15}H_{20}O_2$  (232.33). Source: LA RU GU *Lactarius piperatus* [Syn. *Agaricus piperatus*], RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**22365 Vellerdiol**

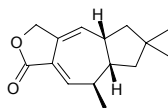
$C_{15}H_{24}O_2$  (236.36). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**22366 Vellerol**

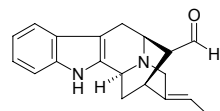
$C_{15}H_{22}O_2$  (234.34). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**22367 Vellerolactone**

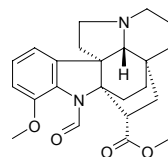
$C_{15}H_{20}O_2$  (232.33). Source: RONG BAI RU GU *Lactarius vellereus*. Ref: 660.

**22368 Vellosimine**

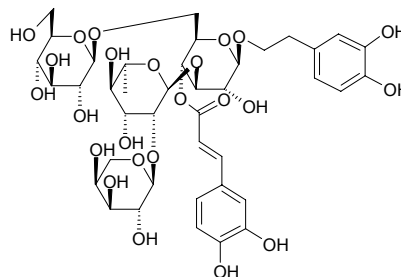
[6874-98-2]  $C_{19}H_{20}N_2O$  (292.38). Crystals (methanol), mp 305~306°C, mp 260°C. Pharm: Antineoplastic (mus, W<sub>256</sub>, Lewis lung cancer, melanotic carcinoma B16). Source: DIAN JI GU CHANG SHAN *Alstonia yunnanensis*, LUO FU MU *Rauvolfia verticillata*, HAI NAN LUO FU MU *Rauvolfia verticillata* var. *hainanensis*. Ref: 6, 42, 660, 1521.

**22369 Vellosine**

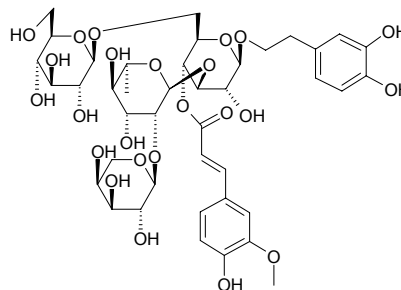
$C_{23}H_{28}N_2O_4$  (396.49). Source: SI YANG SHU YE BAI JIAN MU *Aspidosperma populifolium*, *Aspidosperma refractum*. Ref: 660.

**22370 Velutinoside I**

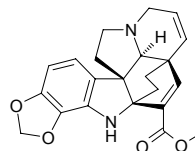
$C_{40}H_{54}O_{24}$  (918.86). Amorphous yellow powder,  $[\alpha]_D^{20} = -6.1^\circ$  ( $c = 0.21$ , MeOH). Source: DUAN RONG MAO OU XIA ZHI CAO *Marrubium velutinum* (aerial parts). Ref: 3448.

**22371 Velutinoside II**

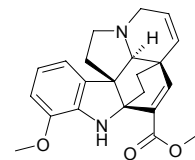
$C_{41}H_{56}O_{24}$  (932.89). Amorphous yellow powder,  $[\alpha]_D^{20} = -6.6^\circ$  ( $c = 0.05$ , MeOH). Source: DUAN RONG MAO OU XIA ZHI CAO *Marrubium velutinum* (aerial parts). Ref: 3448.

**22372 Venacarpine A**

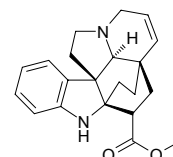
$C_{22}H_{22}N_2O_4$  (378.43). Colorless oil,  $[\alpha]_D = +18^\circ$  ( $c = 0.43$ ,  $CHCl_3$ ). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf). Ref: 3830.

**22373 Venacarpine B**

$C_{22}H_{24}N_2O_3$  (364.45). Colorless oil,  $[\alpha]_D = +12^\circ$  ( $c = 0.20$ ,  $CHCl_3$ ). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf). Ref: 3830.

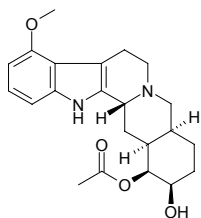
**22374 Venalstonine**

$C_{21}H_{24}N_2O_2$  (336.44). Source: HONG HUA RUI MU *Kopsia fruticosa* (leaf). Ref: 3830.

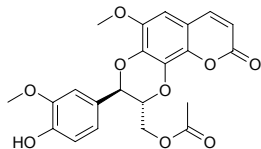


**22375 Venenatine**

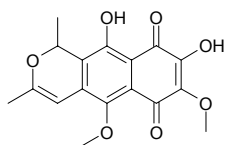
[1055-75-0]  $C_{22}H_{28}N_2O_4$  (384.48). Colorless acicular crystals (methanol), mp 123~125°C (dec),  $[\alpha]_D = -76.1^\circ$ . **Pharm:** Sedative; hypnotic (potentiates hypnotic effect of cyclobarbital). **Source:** YIN DU YA JIAO SHU *Alstonia venenata*. **Ref:** 661.

**22376 Venkatasin**

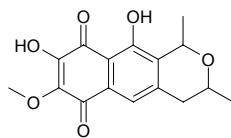
$C_{22}H_{20}O_9$  (428.40). Yellow crystals (MeOH), mp 113~115°C,  $[\alpha]_D^{25} = +16.0^\circ$  ( $c = 0.09$ ,  $CHCl_3$ ). **Source:** LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.00018% dw). **Ref:** 2096.

**22377 Ventilagolin**

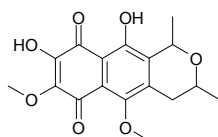
$C_{17}H_{16}O_7$  (332.31). Red lamellar crystals, mp 165~167°C. **Source:** YI HE GUO *Ventilago leiocarpa*. **Ref:** 258.

**22378 Ventiloquinone I**

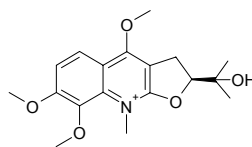
$C_{16}H_{16}O_6$  (304.3). **Pharm:** Cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines,  $IC_{50} > 100\mu\text{mol/L}$ ). **Source:** YI HE GUO *Ventilago leiocarpa* (stem). **Ref:** 3057.

**22379 Ventiloquinone K**

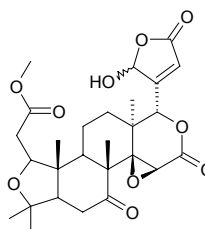
$C_{17}H_{18}O_7$  (334.33). **Pharm:** Cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines,  $IC_{50} > 100\mu\text{mol/L}$ ). **Source:** YI HE GUO *Ventilago leiocarpa* (stem). **Ref:** 3057.

**22380 Veprisinium**

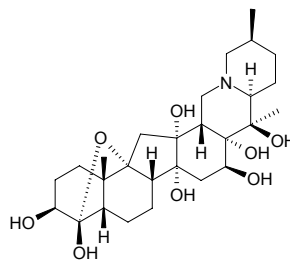
[79808-98-3]  $C_{18}H_{24}NO_5^+$  (334.40). **Pharm:** Antibacterial (*Staphylococcus aureus*). **Source:** LU YI CI JU *Vepris louisii*. **Ref:** 658.

**22381 Veprisonic acid**

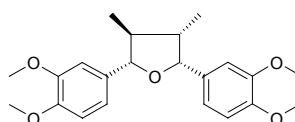
23-Oxo-21 $\xi$ -hydroxy-21,23-dihydroveprisonic acid  $C_{27}H_{34}O_{10}$  (518.57). White amorphous solid. **Source:** *Bouchardatia neurococca*. **Ref:** 3445.

**22382 Veracevine**

[5876-23-3]  $C_{27}H_{43}NO_8$  (509.65). **Pharm:** Anthelmintic. **Source:** WEI JING BAI HE *Schoenocoulon officinale*. **Ref:** 658.

**22383 Veraguensin**

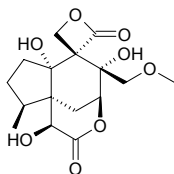
(-)-Veraguensin [19950-55-1]  $C_{22}H_{28}O_5$  (372.47). **Pharm:** PAF antagonist; NO production inhibitor (mus, macrophage-like cell line RAW264.7 activated by LPS/IFN,  $IC_{50} = 35.1\mu\text{mol/L}$ , control Quercetin,  $IC_{50} = 26.8\mu\text{mol/L}$ )<sup>[2537]</sup>. **Source:** HAI FENG TENG *Piper kadsura* [Syn. *Piper futokadsura*], JIAN JIAN MU LAN *Magnolia acuminata*, YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*], XIN YI *Magnolia liliflora*, MEI ZHOU SAN BAI CAO *Saururus cernuus*. **Ref:** 660, 658, 2537.



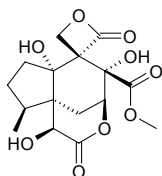
**22384 Veranisatin A**

[153445-92-2]  $C_{16}H_{20}O_8$  (342.35). Colorless prismatic crystals (ethyl acetate), mp 181~182°C,  $[\alpha]_D^{22} = -14.8^\circ$  ( $c = 1.0$ , methanol). **Pharm:** Antipyretic (mus, orl, 1mg/kg, body temperature lowers by 4.2°C); analgesic (mus, orl, 0.1mg/kg, competitor to AcOH and crushing); sedative (mus, orl, 0.1mg/kg, reduces activity induced by methylamphetamine); LD<sub>100</sub> (orl) = 3mg/kg.

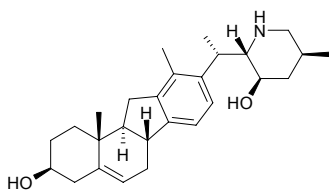
**Source:** BA JIAO HUI XIANG *Illicium verum*. **Ref:** 956, 1005.

**22385 Veranisatin B**

[153445-93-3]  $C_{16}H_{20}O_9$  (356.33). Colorless prismatic crystals (ethyl acetate), mp 212~213°C,  $[\alpha]_D^{22} = -15^\circ$  ( $c = 1.0$ , methanol). **Pharm:** Antipyretic (mus, orl, 1mg/kg body temperature lowers by 4.2Cels-degree); LD<sub>100</sub> (orl) = 3mg/kg. **Source:** BA JIAO HUI XIANG *Illicium verum*. **Ref:** 956, 1005.

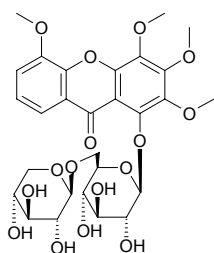
**22386 Veratramine**

[60-70-8]  $C_{27}H_{39}NO_2$  (409.62). **Pharm:** Antihypertensive. **Source:** LV LI LU *Veratrum viride*, MAO YE LI LU *Veratrum grandiflorum*. **Ref:** 658.

**22387 Veratriloside C**

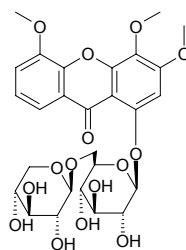
2,3,4,5-Tetramethoxy-xanthone-1-*O*-β-*D*-glucopyranosyl-(1→6)-β-*D*-xylopyranoside  $C_{28}H_{34}O_{16}$  (626.57). Light yellow brown powder, mp 205~206°C.

**Source:** HUANG QIN JIAO *Veratrilla baillonii*. **Ref:** 696.

**22388 Veratriloside D**

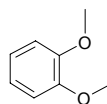
3,4,5-Trimethoxy-xanthone-1-*O*-β-*D*-glucopyranosyl-(1→6)-β-*D*-xylopyranoside  $C_{27}H_{32}O_{15}$  (596.55). White acicular crystals, mp 175~178°C. **Source:**

HUANG QIN JIAO *Veratrilla baillonii*. **Ref:** 696.

**22389 Veratrole**

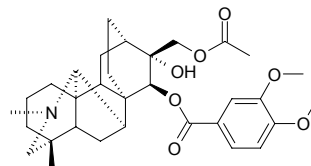
Catechol dimethyl ether [91-16-7]  $C_8H_{10}O_2$  (138.17). mp 22.5°C. **Source:**

FENG DOU CAI *Petasites japonicus*. **Ref:** 6.

**22390 15-Veratroyl-17-acetyldictizine**

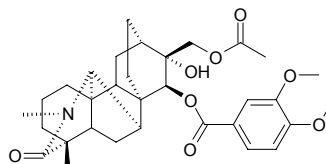
$C_{32}H_{43}NO_7$  (553.70). Amorphous solid,  $[\alpha]_D^{25} = +69.1^\circ$  ( $c = 0.81$ ,  $CHCl_3$ ).

**Source:** BAN HUA WU TOU *Aconitum variegatum* (aerial parts). **Ref:** 5270.

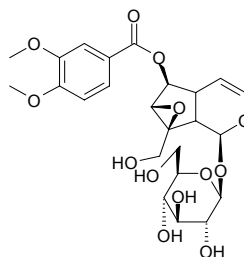
**22391 15-Veratroyl-17-acetyl-19-oxodictizine**

$C_{32}H_{41}NO_8$  (567.69). Amorphous solid,  $[\alpha]_D^{25} = +49.3^\circ$  ( $c = 0.15$ ,  $CHCl_3$ ).

**Source:** BAN HUA WU TOU *Aconitum variegatum* (aerial parts). **Ref:** 5270.

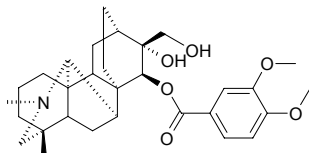
**22392 6-O-Veratroyl-catalpol**

$C_{24}H_{30}O_{13}$  (526.50). **Source:** A LA BO PO PO NA *Veronica persica* (aerial parts). **Ref:** 4211.

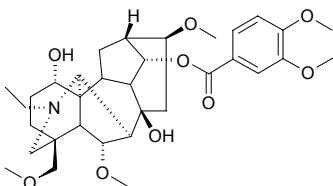


**22393 15-Veratroyldictizine**

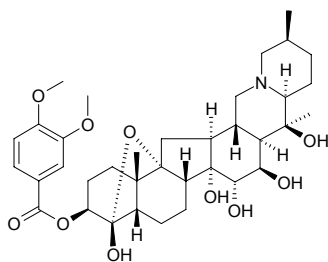
$C_{30}H_{41}NO_6$  (511.66). Amorphous solid,  $[\alpha]_D^{20} = +79.6^\circ$  ( $c = 0.72$ ,  $CHCl_3$ ).  
**Source:** BAN HUA WU TOU *Aconitum variegatum* (aerial parts). **Ref:** 5270.

**22394 14-O-Veratroylneoline**

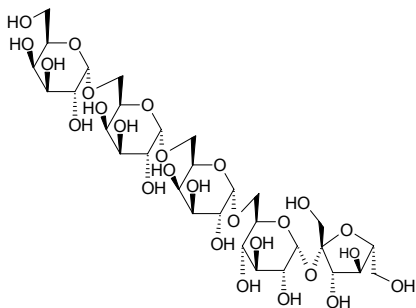
$C_{33}H_{47}NO_9$  (601.74). Amorphous powder (MeOH),  $[\alpha]_D^{23} = +22.1^\circ$  ( $c = 0.75$ ,  $CHCl_3$ ). **Source:** FU ZI *Aconitum carmichaeli* (tuber). **Ref:** 4373.

**22395 Veratroyl zygadenine**

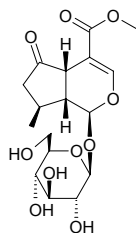
$C_{36}H_{51}NO_{10}$  (657.81). mp 270~271°C. **Pharm:** Antihypertensive (dog iv or im, 0.5~10µg/kg); LD<sub>50</sub> (mus) = 8.9mg/kg. **Source:** BAI LI LU *Veratrum album*, LI LU *Veratrum nigrum*, BAN BIAN LIAN ZHUANG LI LU *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*]. **Ref:** 6, 658.

**22396 Verbascose**

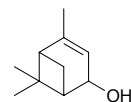
[546-62-3]  $C_{30}H_{52}O_{26}$  (828.73). mp 219~220°C. **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], WU SE MEI *Lantana camara*. **Ref:** 2, 234.

**22397 Verbenalin**

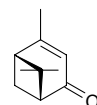
[548-37-8]  $C_{17}H_{24}O_{10}$  (388.37). Colorless bitter acicular crystals or rhomboid lamellar crystals (ethanol), mp 182~183°C,  $[\alpha]_D^{25} = -173^\circ$  ( $c = 3.98$ , water). **Pharm:** Choleric (bile secretion promotor); laxative (mus, ED<sub>50</sub> = 0.11g/kg); parasympathomimetic; bidirectional action to sympathetic fibers (excites sympathetic fibers in low dose and inhibits them in high dose). **Source:** JI YE MA BIAN CAO *Verbena hastata*, JIAN TING MA BIAN CAO *Verbena stricta*, MA BIAN CAO *Verbena officinalis*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpum officinale*]. **Ref:** 6, 661, 5501.

**22398 Verbenol**

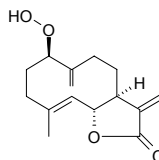
2-Pinen-4-ol [473-67-6]  $C_{10}H_{16}O$  (152.24). (+) (*cis*) mp 15.5°C, bp 90°C/10mmHg, (+) (*trans*) mp 24°C, bp 92°C/10mmHg. **Source:** MI DIE XIANG *Rosmarinus officinalis*. **Ref:** 6.

**22399 Verbenone**

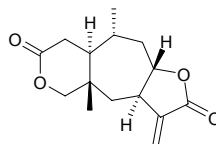
2-Pinen-4-one [18309-32-5]  $C_{10}H_{14}O$  (150.22). **Pharm:** LD<sub>50</sub> (mus, ip) = 250mg/kg. **Source:** SAN YE MA BIAN CAO *Verbena triphylla* [Syn. *Lippia citriodora*]. **Ref:** 658.

**22400 Verlotorin**

Peroxyconstunolide  $C_{15}H_{20}O_4$  (264.32). **Source:** YUE GUI YE *Laurus nobilis*. **Ref:** 660.

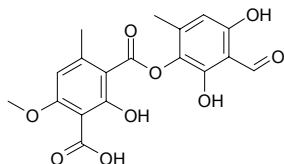
**22401 Vermeerin**

[16983-23-6]  $C_{15}H_{20}O_4$  (264.33). **Pharm:** Toxin (mammal). **Source:** family Asteraceae spp. **Ref:** 658.

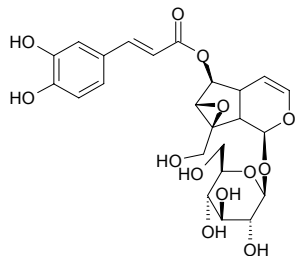


**22402 Vermicularin**

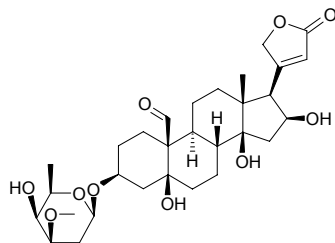
$C_{18}H_{16}O_9$  (376.32). Source: XUE CHA *Thamnia vermicularis*. Ref: 660.

**22403 Verminoside**

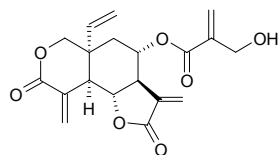
$C_{24}H_{28}O_{13}$  (524.48). Source: A LA BO PO PO NA *Veronica persica* (aerial parts). Ref: 4211.

**22404 Vernadigin**

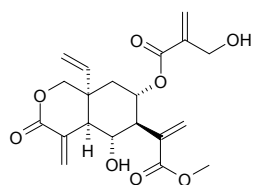
$C_{30}H_{44}O_{10}$  (564.68). Pharm: Antiarrhythmic; toxin (vertebrate). Source: CHUN FU SHOU CAO *Adonis vernalis*. Ref: 658.

**22405 Vernodalin**

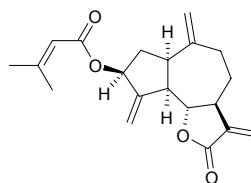
[21871-10-3]  $C_{19}H_{20}O_7$  (360.37). Pharm: Antineoplastic; cytotoxic (KB, *in vitro*,  $ED_{50} = 1.8\mu\text{g/mL}$ ); insect antifeedant. Source: BIAN TAO ZHUANG BAN JIU JU *Vernonia amygdalina*, BAN JIU JU *Vernonia esculenta*. Ref: 5, 661.

**22406 Vernodalol**

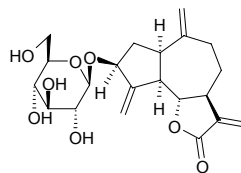
[65388-17-2]  $C_{20}H_{24}O_8$  (392.41). Crystals ( $\text{CHCl}_3$ ), mp 133~134°C,  $[\alpha]_D = +36.5^\circ$  ( $c = 1$ ,  $\text{CHCl}_3$ ). Pharm: Insect antifeedant. Source: QU CHONG BAN JIU JU *Vernonia anthelmintica*, *Vernonia lasiopus*. Ref: 658, 1521, 5359.

**22407 Vernoflexin**

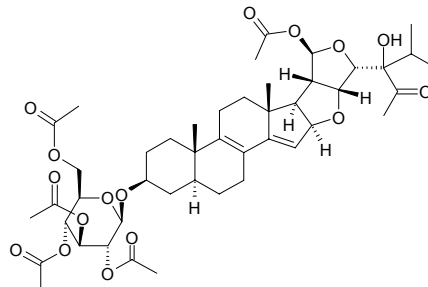
[57576-43-9]  $C_{20}H_{24}O_4$  (328.41). Pharm: Antineoplastic; cytotoxic. Source: WAN YAN BAN JIU JU *Vernonia flexuosa*, ZHONG GUO BAN JIU JU *Vernonia chinense*. Ref: 658.

**22408 Vernoflexuaside**

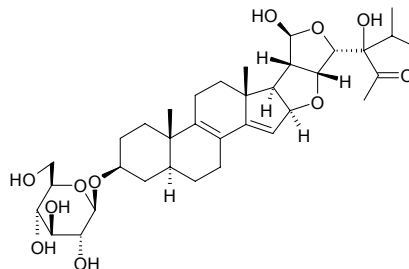
[57576-33-7]  $C_{21}H_{28}O_8$  (408.46). Pharm: Cytotoxic (L-5178Y,  $ID_{50} = 20.6\mu\text{g/mL}$ ); cell growth regulator (root of onion, antimitotic). Source: WAN YAN BAN JIU JU *Vernonia flexuosa*. Ref: 658, 1738.

**22409 Vernoguinoside**

16 $\beta$ ,22R;21,23S-Diepoxy-3 $\beta$ -O- $\beta$ -D-glucopyranosyloxy-21S,24-dihydroxystigmasta-8,14-dien-28-one  $C_{45}H_{62}O_{16}$  (858.99). White powder (MeOH), mp 112~114 °C,  $[\alpha]_D^{22} = -15.3^\circ$  ( $c = 2.3$ ,  $\text{CHCl}_3$ ). Pharm: Antitrypanosomal (inhibits four strains of bloodstream trypanostigotes *Trypanosoma brucei rhodesiense*,  $IC_{50} = 3\text{--}5\text{mg/mL}$ ). Source: JI NEI YA BAN JIU JU *Vernonia guineensis*. Ref: 2031.

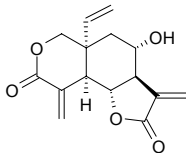
**22410 Vernoguinosterol**

16 $\beta$ ,22R;21,23S-Diepoxy-3 $\beta$ ,21S,24-trihydroxystigmasta-8,14-dien-28-one  $C_{35}H_{52}O_{11}$  (648.80). White powder (acetone). Pharm: Antitrypanosomal (inhibits four strains of bloodstream trypanostigotes *Trypanosoma brucei rhodesiense*,  $IC_{50} = 3\text{--}5\text{mg/mL}$ ). Source: JI NEI YA BAN JIU JU *Vernonia guineensis*. Ref: 2031.

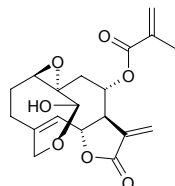


**22411 Vernolepin**

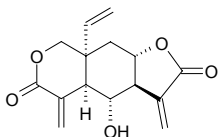
[18542-37-5] C<sub>15</sub>H<sub>16</sub>O<sub>5</sub> (276.29). Colorless prismatic crystals (chloroform–petroleum ether), mp 181–182°C, [ $\alpha$ ]<sub>D</sub><sup>28</sup> = +72° (*c* = 1.04, acetone). **Pharm:** Antineoplastic (rat W<sub>256</sub>, 10mg/kg, biotic prolonged rate = 46%, 12mg/kg, biotic prolonged rate = 32%); cytotoxic (KB *in vitro*, ED<sub>50</sub> = 1.7μg/mL, leukemia cells *in vitro*, ID<sub>50</sub> 0.43 = μmol/L); plant growth regulator. **Source:** BAN JIU JU *Vernonia esculenta*. **Ref:** 5, 661, 5507.

**22412 Vernolide**

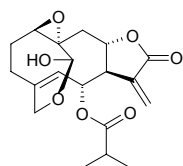
[27428-86-0] C<sub>19</sub>H<sub>22</sub>O<sub>7</sub> (362.38). Lamellar crystals (acetone–petroleum ether), mp 180–183°C (dec), [ $\alpha$ ]<sub>D</sub> = +230° (chloroform). **Pharm:** Cytotoxic (KB *in vitro*, ED<sub>50</sub> = 2.0μg/mL). **Source:** BIAN TAO ZHUANG BAN JIU JU *Vernonia amygdalina*, YOU SE BAN JIU JU *Vernonia colorata*. **Ref:** 5, 661.

**22413 Vernomenin**

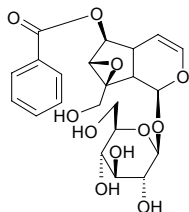
[20107-26-0] C<sub>15</sub>H<sub>16</sub>O<sub>5</sub> (276.29). **Pharm:** Antineoplastic; cytotoxic (KB *in vitro*, ED<sub>50</sub> = 20μg/mL). **Source:** BAN JIU JU *Vernonia esculenta*. **Ref:** 5, 661.

**22414 Vernomygdin**

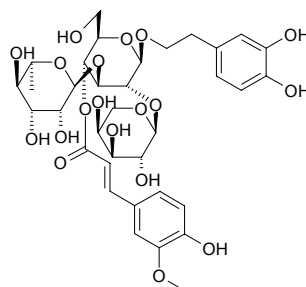
[21871-14-7] C<sub>19</sub>H<sub>24</sub>O<sub>7</sub> (364.40). mp 208–210°C. **Pharm:** Antineoplastic; cytotoxic (KB *in vitro*, ED<sub>50</sub> = 1.5μg/mL). **Source:** BIAN TAO ZHUANG BAN JIU JU *Vernonia amygdalina*, BAN JIU JU *Vernonia esculenta*. **Ref:** 5, 661.

**22415 Veronicoside**

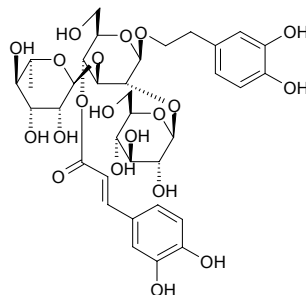
C<sub>22</sub>H<sub>26</sub>O<sub>11</sub> (466.45). **Source:** A LA BO PO PO NA *Veronica persica*, HU HUANG LIAN *Picrorhiza kurroa*. **Ref:** 660, 4211.

**22416 Verpectoside A**

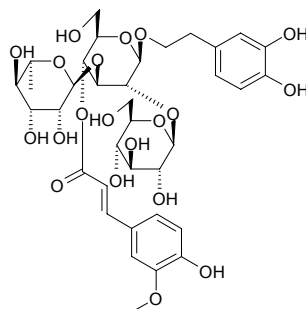
2-(3,4-Dihydroxyphenyl)ethyl-*O*- $\alpha$ -L-arabinopyranosyl-(1→2)-[ $\alpha$ -L-rhamnopyranosyl-(1→3)]-(4-*O*-*trans*-feruloyl)- $\beta$ -D-glucopyranoside C<sub>35</sub>H<sub>46</sub>O<sub>19</sub> (770.75). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>23</sup> = –59° (*c* = 0.03, MeOH). **Pharm:** Antioxidant (DPPH scavenger, 0.5mmol/L, InRt = 13%, control BHA, 0.5mmol/L, InRt = 30%). **Source:** SHU CHI PO PO NA *Veronica pectinata* var. *glandulosa* (aerial parts). **Ref:** 4191.

**22417 Verpectoside B**

2-(3,4-Dihydroxyphenyl)ethyl-*O*- $\beta$ -D-glucopyranosyl-(1→2)-[ $\alpha$ -L-rhamnopyranosyl-(1→3)]-(4-*O*-*trans*-caffeoyl)- $\beta$ -D-glucopyranoside C<sub>35</sub>H<sub>46</sub>O<sub>20</sub> (786.74). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>23</sup> = +135° (*c* = 0.08, MeOH). **Pharm:** Antioxidant (DPPH scavenger, 0.5mmol/L, InRt = 52%, control BHA, 0.5mmol/L, InRt = 30%). **Source:** SHU CHI PO PO NA *Veronica pectinata* var. *glandulosa* (aerial parts). **Ref:** 4191.

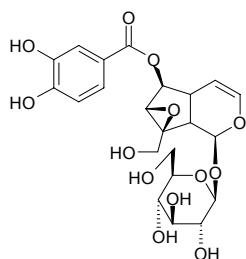
**22418 Verpectoside C**

2-(3,4-Dihydroxyphenyl)ethyl-*O*- $\beta$ -D-glucopyranosyl-(1→2)-[ $\alpha$ -L-rhamnopyranosyl-(1→3)]-(4-*O*-*trans*-feruloyl)- $\beta$ -D-glucopyranoside C<sub>36</sub>H<sub>48</sub>O<sub>20</sub> (800.77). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>23</sup> = +228° (*c* = 0.11, MeOH). **Pharm:** Antioxidant (DPPH scavenger, 0.5mmol/L, InRt = 28%, control BHA, 0.5mmol/L, InRt = 30%). **Source:** SHU CHI PO PO NA *Veronica pectinata* var. *glandulosa* (aerial parts). **Ref:** 4191.

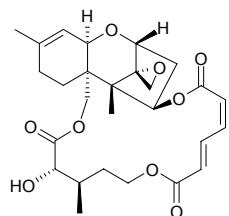


**22419 Verproside**

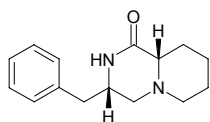
$C_{22}H_{26}O_{13}$  (498.44). Source: A LA BO PO PO NA *Veronica persica* (aerial parts). Ref: 4211.

**22420 Verrucarin A**

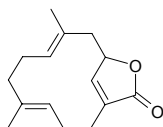
[3148-09-2]  $C_{27}H_{34}O_9$  (502.57). Pharm: Antibacterial; cytotoxic;  $LD_{50}$  (mus, iv) = 1.5mg/kg, (rat, iv) = 0.87mg/kg, (rbt, iv) = 0.54mg/kg. Source: *Myrothecium verrucaria*. Ref: 658.

**22421 Verruculotoxin**

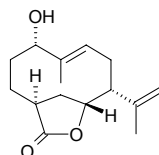
[56092-63-8]  $C_{15}H_{20}N_2O$  (244.34). Pharm:  $LD_{50}$  (one-day-old chicken) = 20mg/kg. Source: *Penicillium verruculosum*. Ref: 658.

**22422 Versicolactone A**

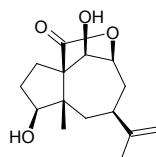
Neoaristolactone [136315-17-8]  $C_{15}H_{20}O_2$  (232.32). White acicular crystals, mp 138~140°C,  $[\alpha]_D^{15} = +38^\circ$  ( $c = 1.0$ , ethanol); colorless prismatic crystals, slightly soluble in cold petroleum ether, soluble in hot petroleum ether and other organic solvents, mp 130~132°C (petroleum ether),  $[\alpha]_D^6 = +486^\circ$  ( $c = 0.1276$ , chloroform). Pharm: Antineoplastic (hmn liver cancer QGY-7703) Source: MIAN MAO MA DOU LING *Aristolochia mollissima*, BIAN SE MA DOU LING *Aristolochia versicolor*. Ref: 209, 215, 1201.

**22423 Versicolactone B**

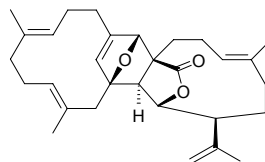
$C_{15}H_{22}O_3$  (250.34). White snowflake-like crystals, mp 135~136°C. Source: BIAN SE MA DOU LING *Aristolochia versicolor*, MIAN MAO MA DOU LING *Aristolochia mollissima* (dried root and stem: yield = 0.0099%dw)<sup>[3026]</sup>. Ref: 51, 3026.

**22424 Versicolactone C**

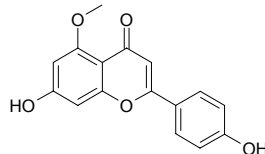
$C_{15}H_{22}O_4$  (266.34). White short claviform crystals, mp 181~182°C  $[\alpha]_D^{36} = -11.4^\circ$  ( $c = 2.6$ , ethanol). Source: BIAN SE MA DOU LING *Aristolochia versicolor*. Ref: 51.

**22425 Versicolactone D**

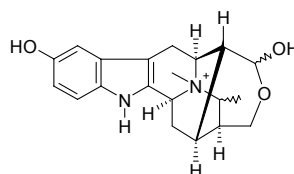
$C_{30}H_{40}O_3$  (448.65). Colorless hyaloid crystals, mp 172.0~172.5°C. Source: BIAN SE MA DOU LING *Aristolochia versicolor*. Ref: 146.

**22426 Vertia flavone**

[29376-68-9]  $C_{16}H_{12}O_5$  (284.27). mp 325~327°C. Source: HUANG HUA JIA ZHU TAO *Thevetia nerifolia* [Syn. *Thevetia peruviana*]. Ref: 6.

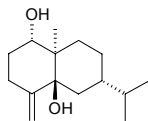
**22427 Verticillatine**

[98243-58-4]  $C_{20}H_{25}N_2O_3$  (341.43). Colorless acicular crystals, mp 324~326°C (dec). Pharm: Antihypertensive (normal and hypertensive animal model, reduces blood pressure rapidly and presents dose-response relationship, shows obvious curative effect for serious and moderate hypertension patients with low side effects); ganglionic blocker. Source: HONG GUO LUO FU MU *Rauwolfia verticillata* f. *rubrocarpa*, HAI NAN LUO FU MU *Rauwolfia verticillata* var. *hainanensis*. Ref: 26, 660, 925, 1521.

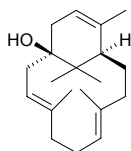


**22428 Verticillatol**

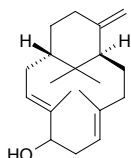
$C_{15}H_{26}O_2$  (238.37). Colorless oil,  $[\alpha]_D^{25} = -41.2^\circ$  ( $c = 0.13$ ,  $CHCl_3$ ). Source: DIE DA LAO *Litsea verticillata*. Ref: 1984.

**22429 ent-Verticilla-4,9,13-trien-2 $\alpha$ -ol**

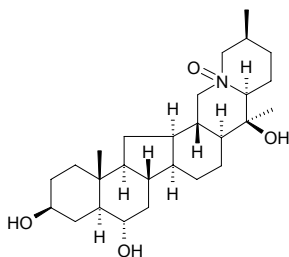
$C_{20}H_{32}O$  (288.48). Colorless crystals (*n*-hexane), mp 93–95°C,  $[\alpha]_D^{20} = -208.9^\circ$  ( $c = 2.83$ ). Source: ZHAO WA JIA KE TAI *Jackiella javanica*. Ref: 5303.

**22430 ent-Verticilla-4(18),9,13-trien-12 $\alpha$ -ol**

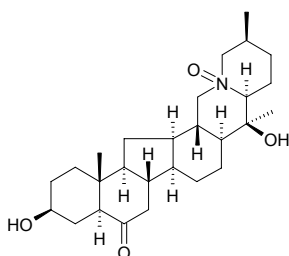
$C_{20}H_{32}O$  (288.48). Colorless crystals (*n*-hexane), mp 116–117°C,  $[\alpha]_D^{17} = -150.8^\circ$  ( $c = 0.91$ ). Source: ZHAO WA JIA KE TAI *Jackiella javanica*. Ref: 5303.

**22431 Verticine-N-oxide**

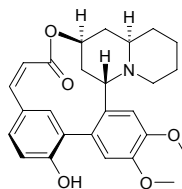
$C_{27}H_{45}NO_4$  (447.66). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 660.

**22432 Verticinone-N-oxide**

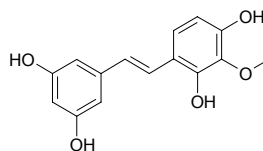
$C_{27}H_{43}NO_4$  (445.65). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 660.

**22433 Vertine**

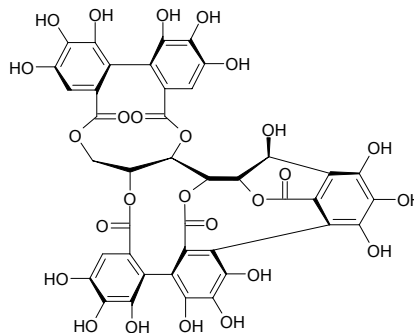
[10308-13-1]  $C_{26}H_{29}NO_5$  (435.53). mp 245°C,  $[\alpha]_D = +39^\circ$  (chloroform). Pharm: Anti-inflammatory (swollen foot model caused by carrageenan); antihypertensive; sedative. Source: DI KE DONG *Decodon verticillatus*, HUANG WEI *Heimia myrtifolia*, FU RUI ZI WEI *Lagerstroemia fauriei*. Ref: 661.

**22434 Verussustilbene**

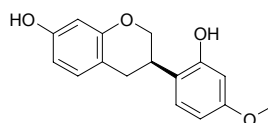
*trans*-3-Methoxy-2,3',4,5'-tetrahydroxystilbene  $C_{15}H_{14}O_5$  (274.28). Yellowish amorphous powder. Source: WU SU LI LI LU *Veratrum nigrum* var. *ussuriense*. Ref: 438.

**22435 Vescalagin**

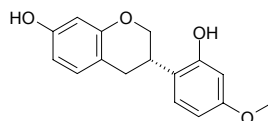
[36001-47-5]  $C_{41}H_{26}O_{26}$  (934.65). Prismatic crystals (water),  $[\alpha]_{578nm}^{20} = -105.2^\circ$  ( $c = 1$ , water). Pharm: Cytotoxic (malanotic carcinoma RPMI-7951,  $ED_{50} = 0.58\mu g/mL$ ). Source: BAN LI *Castanea mollissima* (leaf), LI SHU PI *Castanea mollissima*. Ref: 660,900.

**22436 (3R)-Vestitol**

$C_{16}H_{16}O_4$  (272.30). Pharm: Antifungal. Source: JIANG ZHEN XIANG *Dalbergia odorifera*. Ref: 660.

**22437 (3S)-Vestitol**

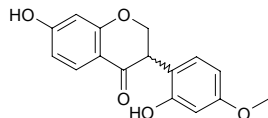
$C_{16}H_{16}O_4$  (272.30). Pharm: Antifungal. Source: YI BIAN HUANG TAN *Dalbergia variabilis*. Ref: 658.



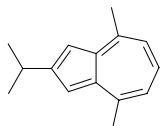


**22438 Vestitone**

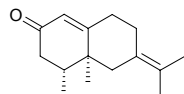
[57462-46-1] C<sub>16</sub>H<sub>14</sub>O<sub>5</sub> (286.29). Pharm: Antifungal. Source: LV DOU *Onobrychis viciifolia*. Ref: 658.

**22439 Vetivazulene**

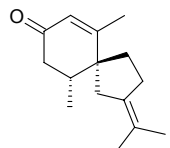
4,8-Dimethyl-2-(1-methylethyl)-azulene C<sub>15</sub>H<sub>18</sub> (198.31). Violet oil. Source: YING ZHI YE TAI *Lepidozia vitrea* (essential oil). Ref: 5209.

**22440 α-Vetivone**

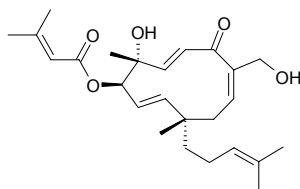
[15764-04-2] C<sub>15</sub>H<sub>22</sub>O (218.34). Pharm: Flavorant. Source: YAN LAN CAO *Vetiveria zizanioides*. Ref: 658.

**22441 β-Vetivone**

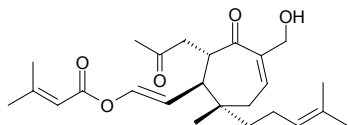
[18444-79-6] C<sub>15</sub>H<sub>22</sub>O (218.34). Pharm: Flavorant. Source: YAN LAN CAO *Vetiveria zizanioides*. Ref: 658.

**22442 Vibsantin B**

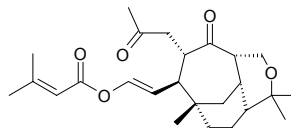
C<sub>25</sub>H<sub>36</sub>O<sub>5</sub> (416.56). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.0055%). Ref: 4638.

**22443 Vibsantin C**

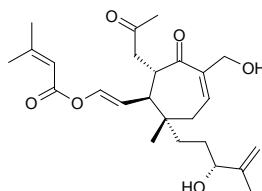
C<sub>25</sub>H<sub>36</sub>O<sub>5</sub> (416.56). Pharm: Cytotoxic (KB cells, IC<sub>50</sub> = 11.3 μmol/L)<sup>[4168]</sup>. Source: RI BEN JIA MI *Viburnum awabuki* (leaf), XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00034%dw). Ref: 3004, 4168.

**22444 Vibsantin E**

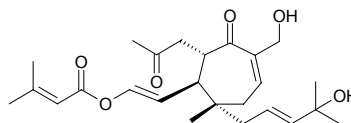
C<sub>25</sub>H<sub>36</sub>O<sub>5</sub> (416.56). Source: RI BEN JIA MI *Viburnum awabuki* (leaf), XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.005%). Ref: 4168, 4638.

**22445 Vibsantin G**

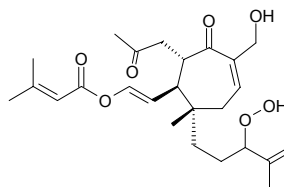
C<sub>25</sub>H<sub>36</sub>O<sub>6</sub> (432.56). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00045%dw). Ref: 3004.

**22446 Vibsantin H**

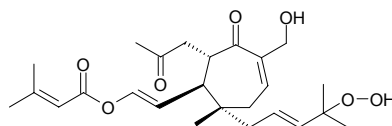
C<sub>25</sub>H<sub>36</sub>O<sub>6</sub> (432.56). Source: RI BEN JIA MI *Viburnum awabuki* (leaf), XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00023%dw). Ref: 3004, 4168.

**22447 Vibsantin I**

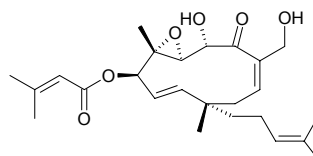
C<sub>25</sub>H<sub>36</sub>O<sub>7</sub> (448.56). Colorless oil, [α]<sub>D</sub><sup>20</sup> = +73.6° (c = 0.56, CHCl<sub>3</sub>). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf). Ref: 3512.

**22448 Vibsantin K**

C<sub>25</sub>H<sub>36</sub>O<sub>7</sub> (448.56). Source: RI BEN JIA MI *Viburnum awabuki* (leaf). Ref: 4168.

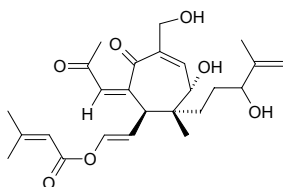
**22449 Vibsantin L**

C<sub>25</sub>H<sub>36</sub>O<sub>6</sub> (432.56). Colorless oil, [α]<sub>D</sub><sup>20</sup> = -61.6° (c = 0.20, CHCl<sub>3</sub>). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf). Ref: 3512.

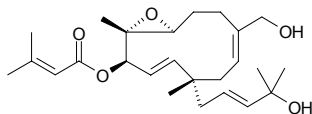


**22450 Vibsantin M**

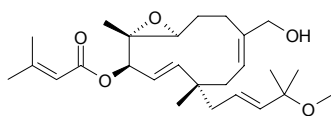
$C_{25}H_{34}O_7$  (446.55). Colorless amorphous solid,  $[\alpha]_D^{26} = +9.1^\circ$  ( $c = 0.8$ ,  $CHCl_3$ ). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.00002%dw). Ref: 3004.

**22451 Vibsantin P**

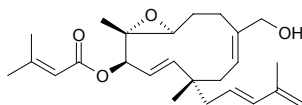
$C_{25}H_{38}O_5$  (418.58). Colorless amorphous solid,  $[\alpha]_D^{25} = +24^\circ$  ( $c = 0.3$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*,  $P_{388}$ ,  $ED_{50} = 2.25\mu g/mL$ ; A549,  $ED_{50} = 4.62\mu g/mL$ ; HT29,  $ED_{50} = 9.97\mu g/mL$ ). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22452 Vibsantin Q**

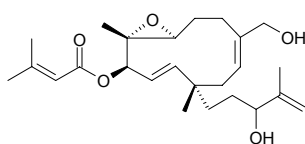
$C_{26}H_{40}O_5$  (432.61). Colorless amorphous solid,  $[\alpha]_D^{25} = +23^\circ$  ( $c = 0.4$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*,  $P_{388}$ ,  $ED_{50} < 10\mu g/mL$ ). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22453 Vibsantin R**

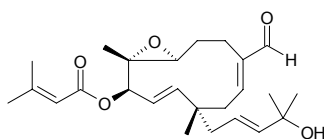
$C_{25}H_{36}O_4$  (400.56). Colorless amorphous solid,  $[\alpha]_D^{25} = +43^\circ$  ( $c = 0.5$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*,  $P_{388}$ ,  $ED_{50} < 10\mu g/mL$ ). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22454 Vibsantin S**

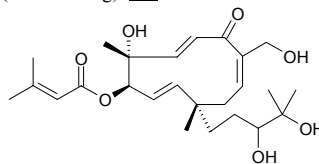
$C_{25}H_{38}O_5$  (418.58). Oil,  $[\alpha]_D^{25} = +25^\circ$  ( $c = 0.3$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*,  $P_{388}$ ,  $ED_{50} < 10\mu g/mL$ ). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22455 Vibsantin T**

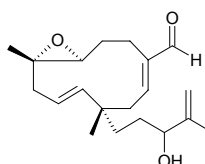
$C_{25}H_{36}O_5$  (416.56). Oil,  $[\alpha]_D^{25} = +46^\circ$  ( $c = 0.4$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*,  $P_{388}$ ,  $ED_{50} < 10\mu g/mL$ ). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22456 Vibsantin U**

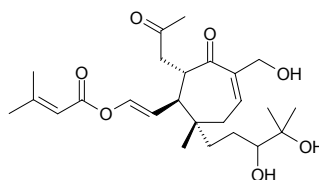
$C_{25}H_{38}O_7$  (450.58). Gum,  $[\alpha]_D^{25} = +21^\circ$  ( $c = 0.6$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*,  $P_{388}$ ,  $ED_{50} < 10\mu g/mL$ ). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22457 Vibsantin V**

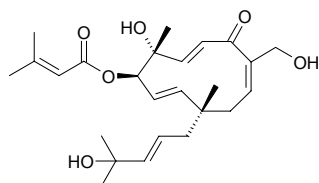
$C_{20}H_{30}O_3$  (318.46). Colorless amorphous solid,  $[\alpha]_D^{25} = +30^\circ$  ( $c = 0.5$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*,  $P_{388}$ ,  $ED_{50} < 10\mu g/mL$ ). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22458 Vibsantin W**

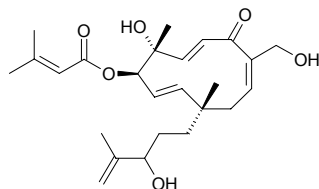
$C_{25}H_{38}O_7$  (450.58). Colorless amorphous solid,  $[\alpha]_D^{25} = +16^\circ$  ( $c = 0.3$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*,  $P_{388}$ ,  $ED_{50} = 2.18\mu g/mL$ ; A549,  $ED_{50} = 5.6\mu g/mL$ ; HT29,  $ED_{50} = 8.15\mu g/mL$ ). Source: RI BEN JIA MI *Viburnum awabuki* (leaf and twig). Ref: 3011.

**22459 Vibsanol A**

$C_{25}H_{36}O_6$  (432.56). Colorless oil,  $[\alpha]_D^{26} = +5.6^\circ$  ( $c = 0.05$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*, gastric tumour NUGC,  $10\mu mol/L$ ,  $InRt = 85\%$ ; control Antinomycin D,  $10\mu mol/L$ ,  $InRt = (98-100)\%$ ). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.0055%). Ref: 4638.

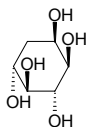
**22460 Vibsanol B**

$C_{25}H_{36}O_6$  (432.56). Colorless oil,  $[\alpha]_D^{26} = +17.4^\circ$  ( $c = 0.05$ ,  $CHCl_3$ ). Pharm: Cytotoxic inactive (*in vitro*, gastric tumour NUGC,  $10\mu mol/L$ ,  $InRt < 50\%$ ; control Antinomycin D,  $10\mu mol/L$ ,  $InRt = (98-100)\%$ ). Source: XIANG QI JIA MI *Viburnum odoratissimum* (leaf and flower: yield = 0.0036%). Ref: 4638.

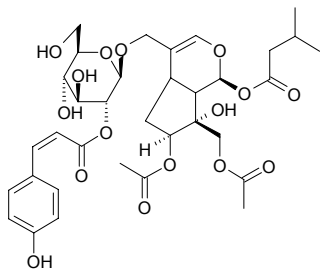


**22461 Viburnitol**

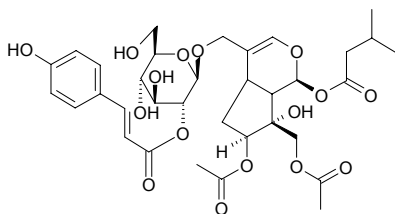
$C_6H_{12}O_5$  (164.16). mp 180~181°C. Source: YANG SHI CAO *Achillea millefolium*. Ref: 6.

**22462 Viburtinoside B**

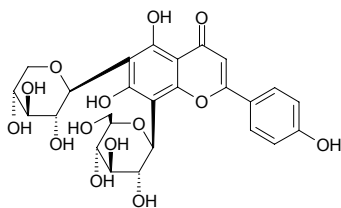
$C_{34}H_{44}O_{16}$  (708.72). Creamy-white amorphous powder,  $[\alpha]_D = -61^\circ$  ( $c = 0.23$ , MeOH). Source: *Viburnum tinus* (leaf). Ref: 5339.

**22463 Viburtioside A**

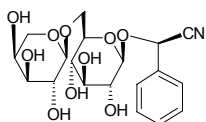
$C_{34}H_{44}O_{16}$  (708.72). Creamy-white amorphous powder,  $[\alpha]_D = -59^\circ$  ( $c = 0.26$ , MeOH). Source: *Viburnum tinus* (leaf). Ref: 5339.

**22464 Vicenin 1**

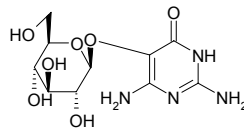
6-C-Xylopyranosyl-8-C-glucopyranosylapigenin  $C_{26}H_{28}O_{14}$  (564.50). Source: HU LU BA *Trigonella foenum-graecum*, YA MA *Linum usitatissimum*. Ref: 660.

**22465 Vicianin**

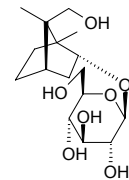
[155-57-7]  $C_{19}H_{25}NO_{10}$  (427.41). mp 147~148°C. Pharm: Toxin. Source: DA CHAO CAI *Vicia sativa*, FU LANG HUA *Gerbera jamesonii*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*], WANG BU LIU XING *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*], ZHAI YE YE WAN DOU *Vicia angustifolia*, *Davallia* sp. Ref: 6, 658, 660.

**22466 Vicine**

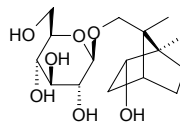
2,6-Diamino-4,5-dihydroxy pyrimidine-5- $\beta$ -glucoside.  $C_{10}H_{16}N_4O_7$  (304.26). mp 243~244°C (dec). Pharm: Antiarrhythmic; reduces G6PD in hematis. Source: CAN DOU *Vicia faba*, DA CHAO CAI *Vicia sativa*, KU GUA *Momordica charantia*, MA CAN DOU *Vicia faba* var. *equina*, WAN DOU *Pisum sativum*. Ref: 6, 176, 658.

**22467 (1S,2R,4S,7R)-Vicodiol 2-O- $\beta$ -D-glucopyranoside**

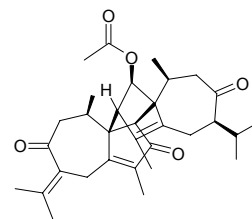
$C_{16}H_{28}O_7$  (332.40). Amorphous powder,  $[\alpha]_D^{22} = -48^\circ$  ( $c = 1.7$ , MeOH). Source: SHE XIANG CAO *Thymus vulgaris* (leaf). Ref: 3895.

**22468 (1R,2S,4R,7S)-Vicodiol 9-O- $\beta$ -D-glucopyranoside**

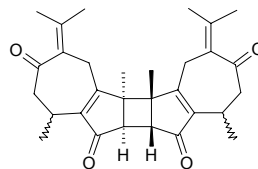
$C_{16}H_{28}O_7$  (332.40). Colorless needles (MeOH), mp 173~174°C,  $[\alpha]_D^{23} = -16^\circ$  ( $c = 4.4$ , MeOH). Source: SUO SHA MI *Amomum xanthioides* (seed). Ref: 4365.

**22469 Vielanin A**

$C_{32}H_{42}O_5$  (506.69). Crystals (MeOH), mp 190~191°C,  $[\alpha]_D^{27} = -8^\circ$  ( $c = 0.5$ ,  $CHCl_3$ ). Source: MU BAN SHU *Xylopiya vielana* (leaf). Ref: 5131.

**22470 Vielanin B**

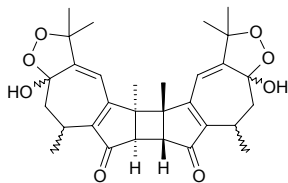
$C_{30}H_{36}O_4$  (460.62). mp 210~212°C (EtOAc). Source: MU BAN SHU *Xylopiya vielana* (leaf). Ref: 5131.



**22471 Vielanin C**

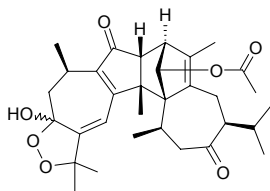
$C_{30}H_{36}O_8$  (524.62). mp 108~110°C (acetone),  $[\alpha]_D^{26} = -120^\circ$  ( $c = 0.5$ ,  $CHCl_3$ ).

Source: MU BAN SHU *Xylopi* *vielana* (leaf). Ref: 5131.

**22472 Vielanin D**

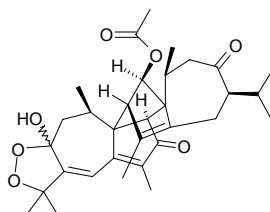
$C_{32}H_{42}O_7$  (538.69). Amorphous, mp 213~215°C (*n*-hexane-EtOAc),  $[\alpha]_D^{25} =$

$-45^\circ$  ( $c = 0.5$ ,  $CHCl_3$ ). Source: MU BAN SHU *Xylopi* *vielana* (leaf). Ref: 3458.

**22473 Vielanin E**

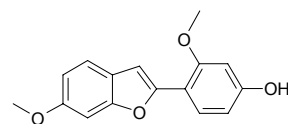
$C_{32}H_{42}O_7$  (538.69). Amorphous, mp 220~222°C (MeOH),  $[\alpha]_D^{25} = +31^\circ$  ( $c =$

0.5,  $CHCl_3$ ). Source: MU BAN SHU *Xylopi* *vielana* (leaf). Ref: 3458.

**22474 Vignafuran**

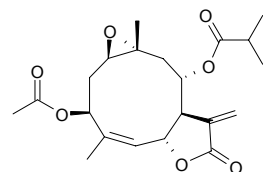
[57800-41-6]  $C_{16}H_{14}O_4$  (270.29). Pharm: Antifungal. Source: JIANG DOU

*Vigna unguiculata*. Ref: 658, 1521.

**22475 Vigiuestin**

Vigiuestenin [69440-10-4]  $C_{21}H_{28}O_7$  (392.46). Pharm: Antineoplastic;

cytotoxic. Source: *Viguiera stenoloba*. Ref: 658.

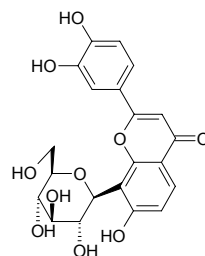
**22476 Vijayoside**

8-(*C*- $\beta$ -D-Glucopyranosyl)-7,3',4'-trihydroxyflavone  $C_{21}H_{22}O_{10}$  (432.29).

Yellow needles ( $H_2O:MeOH=19:1$ ), mp 202~204°C,  $[\alpha]_D^{19} = +25.6^\circ$  ( $c = 0.5$ ,

MeOH). Source: NANG ZHUANG ZI TAN *Pterocarpus marsupium*

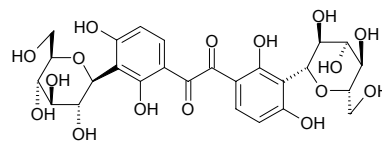
(heartwood). Ref: 3789.

**22477 Vijayosine**

1,2-Bis(2,4-dihydroxy,3-*C*-glucopyranosyl)-ethanedione  $C_{26}H_{30}O_{16}$  (598.52).

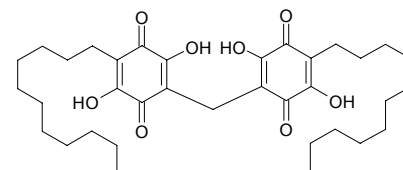
Pale yellow amorphous powder,  $[\alpha]_D^{29} = +32.14^\circ$  ( $c = 0.056$ , DMSO). Source:

NANG ZHUANG ZI TAN *Pterocarpus marsupium* (heartwood). Ref: 3789.

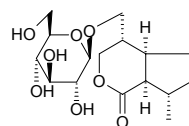
**22478 Vilangin**

[4370-68-7]  $C_{35}H_{52}O_8$  (600.80). mp 264~265°C (dec). Source: XIAN SUAN

QIANG *Embelia ribes*. Ref: 6.

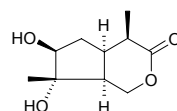
**22479 Villoside**

[50276-99-8]  $C_{16}H_{26}O_8$  (346.38). Source: BAI JIANG *Patrinia villosa*. Ref: 2.

**22480 Villosol**

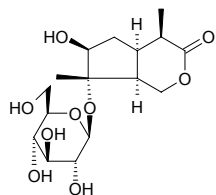
[99933-29-6]  $C_{10}H_{16}O_4$  (200.24). White crystals, mp 143~145°C,  $[\alpha]_D^{18} =$

$+170.73^\circ$  ( $c = 0.5$ , MOH). Source: BAI JIANG *Patrinia villosa*. Ref: 34.

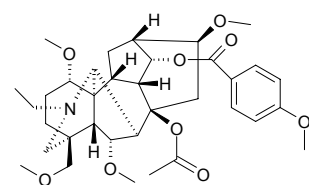


**22481 Villosolside**

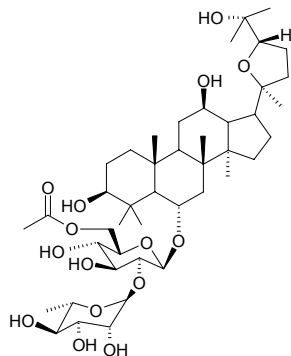
[99933-30-9]  $C_{16}H_{26}O_9$  (362.38). White crystals, mp 228~230°C,  $[\alpha]_D^{35} = +93.37^\circ$  ( $c = 0.5$ ,  $H_2O$ ). Source: BAI JIANG *Patrinia villosa*. Ref: 36.

**22482 Vilmorrianine C**

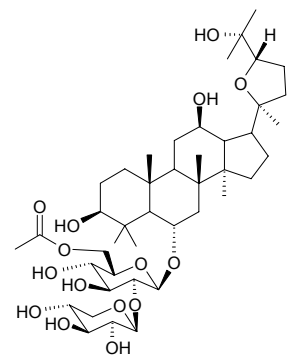
Foresaconitine [73870-35-6]  $C_{35}H_{49}NO_9$  (627.78). Crystals ( $Me_2CO-MeOH$ ), mp 153~154°C,  $[\alpha]_D^{20} = +30.5^\circ$  ( $CHCl_3$ ). Source: DIAN XI WU TOU *Aconitum bulleyanum*, FU ZI *Aconitum carmichaeli* (tuber), LI JIANG WU TOU *Aconitum forrestii* [Syn. *Aconitum likiangense*]. Ref: 618, 1521, 4373.

**22483 Vina-ginsenoside R<sub>1</sub>**

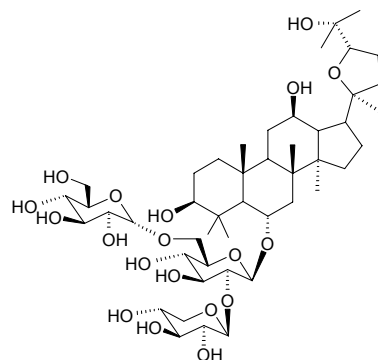
$C_{44}H_{74}O_{15}$  (843.07). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.008%dw). Ref: 4610.

**22484 Vina-ginsenoside R<sub>2</sub>**

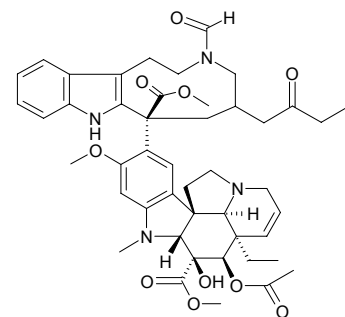
$C_{43}H_{72}O_{15}$  (829.94). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.11%dw). Ref: 4610.

**22485 Vina-ginsenoside R<sub>6</sub>**

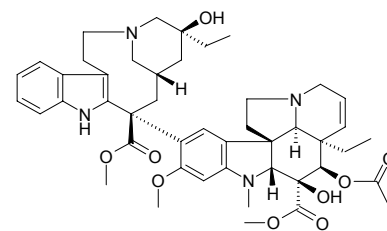
$C_{47}H_{80}O_{19}$  (949.15). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0058%dw). Ref: 4610.

**22486 Vinamidine**

[58511-83-4]  $C_{46}H_{56}N_4O_{10}$  (824.98). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*]. Ref: 2, 1521.

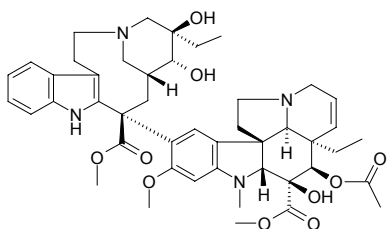
**22487 Vinblastine**

Vincalculoblastine [865-21-4]  $C_{46}H_{58}N_4O_9$  (811.00). acicular crystals ( $MeOH$ ), mp 211~216°C,  $[\alpha]_D^{26} = +42^\circ$  ( $CHCl_3$ ), soluble in ethanol, chloroform, acetic ether, acetone, insoluble in water.<sup>[5507]</sup> Pharm: Inhibits mitosis (especially in formation of spindle fibre); used in treatment of Hodgkin's disease, chorion cancer, lymphatic sarcoma (sulfate); used in treatment of rheumatic arthritis;  $LD_{50}$  (mus, iv, sulfate) = 9.5mg/kg. Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochnera rosea*] (whole herb: content = 0.0383%<sup>[5508]</sup>; isolated from the plant in 1958)<sup>[5507]</sup>. Ref: 5, 658, 5507, 5508.

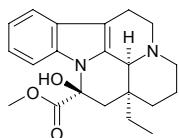


**22488 Vincadioline**

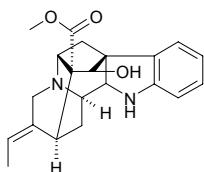
15 $\alpha$ -Hydroxyvincaleukoblastine [56897-74-6] C<sub>46</sub>H<sub>58</sub>N<sub>4</sub>O<sub>10</sub> (827.00). mp 218~221°C. **Pharm:** Antimitotic. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 5, 658.

**22489 Vincamine**

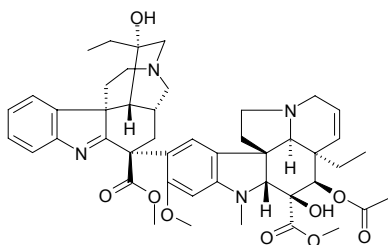
Minorine [1617-90-9] C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub> (354.45). mp 232~233°C. **Pharm:** Antihypertensive (rat, 0.8mg/kg, arterial pressure lowered by 30%); muscle relaxant; vasodilator (rat, iv, 2mg/kg); LD<sub>50</sub> (mus, iv) = 75mg/kg. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], DA CHANG CHUN HUA *Vinca herbacea* [Syn. *Vinca major*], MAN CHANG CHUN HUA *Vinca minor*. **Ref:** 4, 658.

**22490 Vincarin**

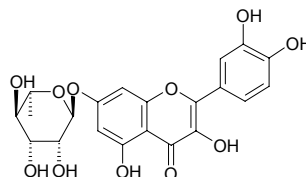
[21641-60-1] C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>3</sub> (352.44). mp 263~264°C. **Pharm:** Antiarrhythmic (rat, induced by aconitine, 5~10mg/kg); CNS depressant (mus, ip, 10mg/kg); antihypertensive (anesthetic dog, 0.1~3.0mg/kg). **Source:** DA CHANG CHUN HUA *Vinca herbacea* [Syn. *Vinca major*], CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 4, 658.

**22491 Vincathicine**

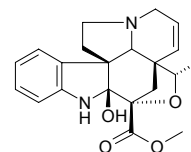
[57665-10-8] C<sub>46</sub>H<sub>56</sub>N<sub>4</sub>O<sub>9</sub> (808.98). No free alkali crystals. Sulfate, tiny lamellar crystals (ethanol), mp > 320°C (dec). **Pharm:** Antimitotic; dissolves oncocytes. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], LUAN YUAN CHANG CHUN HUA *Catharanthus ovalis*. **Ref:** 661.

**22492 Vincetoxicose B**

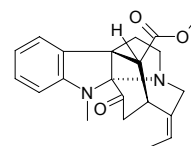
Quercetin-7-O-rhamnoside C<sub>21</sub>H<sub>20</sub>O<sub>11</sub> (448.37). **Pharm:** Anti-hepatitis. **Source:** BAI CI *Nitraria tangutorum*, CE BAI YE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], DI ER CAO *Hypericum japonicum*, GUI ZHU XIANG *Cheiranthus cheiri*, HUA BEI BAI QIAN *Cynanchum hancockianum*, LI ZI *Prunus salicina*, YAO YONG BAI QIAN *Vincetoxicum officinale* [Syn. *Cynanchum vincetoxicum*]. **Ref:** 658, 660, 1417, 4008, 4009, 4010, 4011.

**22493 Vincoline**

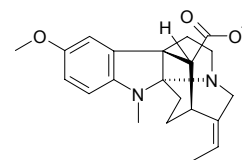
[11034-66-5] C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub> (368.44). mp 230~233°C. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], DAN MU *Nauclea officinalis*. **Ref:** 2, 118, 1521.

**22494 Vincoridine**

C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>3</sub> (352.44). **Source:** DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0002%). **Ref:** 3020.

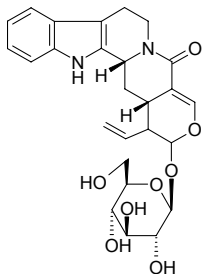
**22495 Vincorine**

C<sub>22</sub>H<sub>28</sub>N<sub>2</sub>O<sub>3</sub> (368.48). **Source:** DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0004%), MAN CHANG CHUN HUA *Vinca minor*. **Ref:** 1521, 3020.

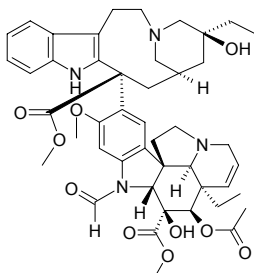


**22496 Vincosamide**

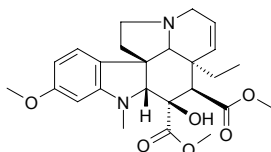
Vincoside lactam [23141-27-7]  $C_{26}H_{30}N_2O_8$  (498.54). Yellowish amorphous solid, mp 194~196°C (MeOH),  $[\alpha]_D^{22} = -48.6^\circ$  ( $c = 0.15$ , MeOH); mp 200~203°C,  $[\alpha]_D = -54.9^\circ$  ( $c = 0.24$ , MeOH), mp 210°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** DONG FANG WU TAN *Nauclea orientalis* (bark)<sup>[3074]</sup>, GOU TENG *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*], JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.00089%<sub>dw</sub>)<sup>[4723]</sup>, XI SHU *Camptotheca acuminata*. **Ref:** 2, 2178, 3074, 4097, 4723.

**22497 Vincristine**

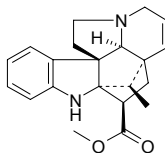
Leuroristine; VCR [57-22-7]  $C_{46}H_{56}N_4O_{10}$  (824.98). mp 218~220°C (dec). **Pharm:** Antineoplastic; cytotoxic (SMMC-7721,  $IC_{50} = (30.35 \pm 2.23) \mu\text{g/mL}$ ; HO-8910,  $IC_{50} = (20.74 \pm 1.91) \mu\text{g/mL}$ <sup>[4736]</sup>, cytotoxic (*in vitro*, BGC823 hmn tumor cells,  $IC_{50} = 0.066 \mu\text{g/mL}$ )<sup>[4760]</sup>; cytotoxic (SMMC-7721,  $IC_{50} = (63.2 \pm 1.8) \mu\text{g/mL}$ ; B16,  $IC_{50} = (70.7 \pm 2.8) \mu\text{g/mL}$ ; HeLa,  $IC_{50} = (67.2 \pm 2.2) \mu\text{g/mL}$ )<sup>[5219, 5244]</sup>; antithrombotic (mus, sulfate); LD<sub>50</sub> (mus, ip) = 5.2mg/kg. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*] (whole herb: content = 0.0054%<sup>[5508]</sup>). **Ref:** 4, 658, 1521, 4736, 4760, 5219, 5244, 5508.

**22498 Vindoline**

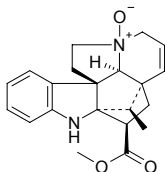
[2182-14-1]  $C_{25}H_{32}N_2O_6$  (456.54). mp 154~155°C. **Pharm:** Diuretic (animal model); hypoglycemic (animal model); antihypercholesterolemic (mus, ip); inhibits pathogenic bacteria. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*] (whole herb: content = 0.244%<sup>[5508]</sup>), CHANG YE CHANG CHUN HUA *Catharanthus longifolius*, LUAN YUAN CHANG CHUN HUA *Catharanthus ovalis*, XI XIAO CHANG CHUN HUA *Catharanthus pusillus*. **Ref:** 2, 658, 5508.

**22499 Vindolinine**

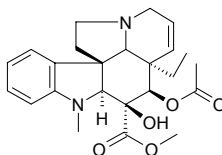
[5980-02-9]  $C_{21}H_{24}N_2O_2$  (336.44). mp 214~218°C. **Pharm:** Antibacterial (against 40 different bacteria); diuretic (animal model); hypoglycemic (animal model). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CHANG YE CHANG CHUN HUA *Catharanthus longifolius*, LUAN YUAN CHANG CHUN HUA *Catharanthus ovalis*, NAN SHE TENG ZHUANG SHAN CHENG *Melodinus celastroides*. **Ref:** 2, 658, 1521.

**22500 Vindolinine N-oxide**

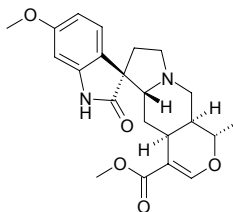
$C_{21}H_{24}N_2O_3$  (352.44). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2.

**22501 Vindorosine**

Vindolidine [5231-60-7]  $C_{24}H_{30}N_2O_5$  (426.52). mp 244~250°C (dec). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2, 1521.

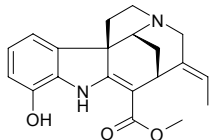
**22502 Vineridine**

Isocaboxine A [3489-06-3]  $C_{22}H_{26}N_2O_5$  (398.46). mp 179~180°C (acetone),  $[\alpha]_D^{22} = 22.7^\circ$  ( $c = 2.32$ , pyridine), 42.4 ( $c = 1.7$ , methanol), 40.5 ( $c = 2.395$ , chloroform). **Pharm:** CNS depressant (mus, *in vivo*,  $\geq 10\text{mg/kg}$  chlorine, ip, potentiates hypnotic effect of pentobarbital); antihypertensive (anesthetic cat, 1~20mg/kg, iv, arterial pressure lowered by 1.33~12.00kPa); respiratory stimulant; uterine stimulant (rbt, *in vivo* and *in vitro*, 1mg/kg iv); LD<sub>50</sub> = 125mg/kg. **Source:** CU SHENG KA BU MU *Cabucala fasciculata*, ZHI LI CHANG CHUN HUA *Vinca erecta*. **Ref:** 658, 660.

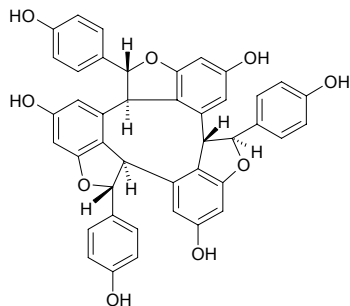


**22503 Vinervine**

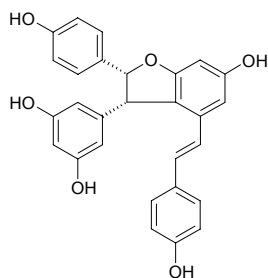
[1963-86-6]  $C_{20}H_{22}N_2O_3$  (388.41). mp 154~155°C (dec),  $[\alpha]_D^{32} = -505^\circ$  (methanol), hydrochloride mp 199~200°C,  $[\alpha]_D^{32} = -511.4^\circ$ . **Pharm:** Antihypertensive (chloride, anesthetic cat by urethan and anesthetic dog by urethan-morphine); uterine stimulant (rbt, *in vitro*). **Source:** ZHI LI CHANG CHUN HUA *Vinca erecta*. **Ref:** 658.

**22504  $\alpha$ -Viniferin**

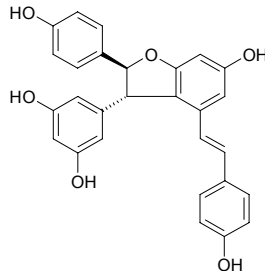
$C_{42}H_{30}O_9$  (678.70). **Pharm:** PKC inhibitor ( $IC_{50} = 62.5\mu\text{mol/L}$ ); anti-inflammatory (mouse, carrageenin-induced paw edema, dose > 30mg/kg orl or > 3mg/kg iv)<sup>[5432]</sup>; anti-inflammatory (COX-2 inhibitor,  $IC_{50} = 4.9\mu\text{mol/L}$ ; very weak COX-1 inhibitor,  $100\mu\text{mol/L}$ , InRt = (55.2±2.1)%, control, InRt = 100%)<sup>[5432]</sup>; inhibits synthesis of COX-2 transcript (LPS-activated murine macrophages Raw264.7, 3~10 $\mu\text{mol/L}$ )<sup>[5432]</sup>; NO production inhibitor (LPS-activated Raw264.7 cells treated simultaneously by  $\alpha$ -viniferin and LPS,  $IC_{50} = 2.7\mu\text{mol/L}$ , but did not inhibit the NO production when  $\alpha$ -viniferin was treated at 12h after LPS stimulation)<sup>[5432]</sup>; inhibits synthesis of iNOS transcript ( $IC_{50} = 4.7\mu\text{mol/L}$ )<sup>[5432]</sup>. **Source:** PU<sup>(2)</sup> TAO *Vitis vinifera*, JIN JI ER *Caragana chamlagu*, XIA YE JIN JI ER *Caragana stenophylla* (root). **Ref:** 2234, 2557, 5432.

**22505  $\epsilon$ -Viniferin**

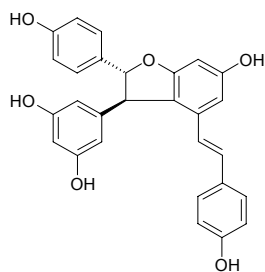
7*a*,8*a*-*cis*- $\epsilon$ -Viniferin [62218-08-0]  $C_{28}H_{22}O_6$  (454.48). **Pharm:** Antifungal (*Botrytis cinerea*, *Cladosporium cucumerinum* and *Plasmopara viticola*); antioxidant (super oxide scavenger,  $IC_{50} = 20\mu\text{mol/L}$ ; lipid peroxide inhibitory activity,  $IC_{50} = 33\mu\text{mol/L}$ )<sup>[4306]</sup>. **Source:** PU<sup>(2)</sup> TAO *Vitis vinifera*, QING MEI *Vatica rassak* (stem cortex), SHAN PU TAO *Vitis amurensis*. **Ref:** 658, 1521, 2233, 2234, 3950, 4306.

**22506 (+)- $\epsilon$ -Viniferin**

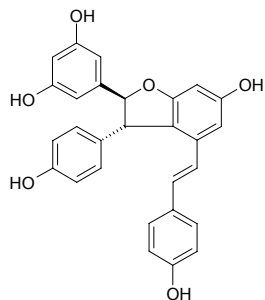
$C_{28}H_{22}O_6$  (454.48). **Source:** SHAN PU TAO *Vitis amurensis*. **Ref:** 2233, 2234.

**22507 (-)- $\epsilon$ -Viniferin**

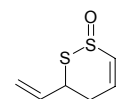
$C_{28}H_{22}O_6$  (454.48). **Source:** PU<sup>(2)</sup> TAO *Vitis vinifera*. **Ref:** 2233, 2234.

**22508  $\epsilon$ -iso-Viniferin**

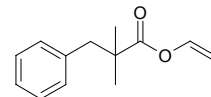
$C_{28}H_{22}O_6$  (454.48). **Source:** SHAN PU TAO *Vitis amurensis*. **Ref:** 2233, 2234.

**22509 3-Vinyl-3,4-dihydro-1,2-dithiin-1-oxide**

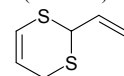
$C_6H_8S_2O$  (160.26). Yellowish oil liquid. **Source:** DA SUAN *Allium sativum*. **Ref:** 2186.

**22510 Vinyl-2,2-dimethyl-3-phenyl-propionate**

$C_{13}H_{16}O_2$  (204.27). **Source:** AI YE *Artemisia argyi*. **Ref:** 660.

**22511 2-Vinyl-1,3-dithia-4-cyclohexene**

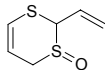
[80028-57-5]  $C_6H_8S_2$  (144.26). **Pharm:** Platelet aggregation inhibitor (derivants-induced); antithrombotic; 5-lipoxygenase inhibitor (50 $\mu\text{mol/L}$ , InRt = (20.4±8.8)%). **Source:** DA SUAN *Allium sativum*. **Ref:** 2, 1827, 1828.



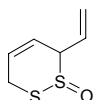
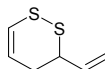
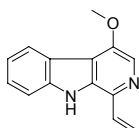
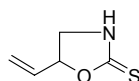
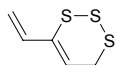
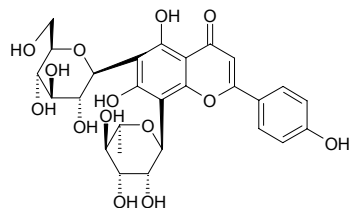
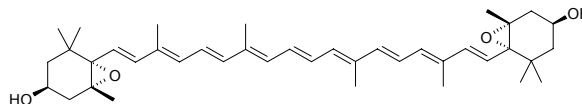
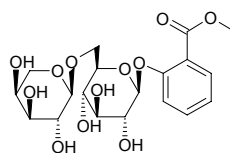
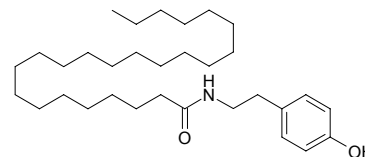
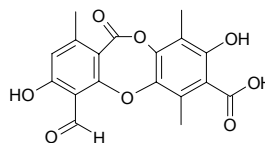
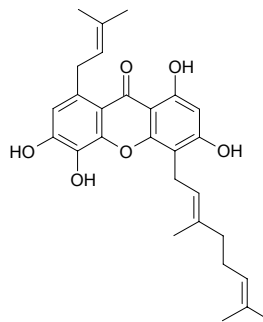


**22512 2-Vinyl-1,3-dithia-4-cyclohexene-3-oxide**C<sub>6</sub>H<sub>8</sub>OS<sub>2</sub> (160.26). Colorless oil liquid. Source: DA SUAN *Allium sativum*.

Ref: 2118.

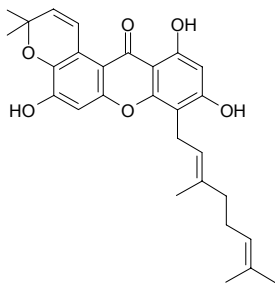
**22513 3-Vinyl-1,2-dithia-4-cyclohexene**C<sub>6</sub>H<sub>8</sub>S<sub>2</sub> (144.26). Source: DA SUAN *Allium sativum*. Ref: 2, 660.**22514 3-Vinyl-1,2-dithia-4-cyclohexene-2-oxide**C<sub>6</sub>H<sub>8</sub>OS<sub>2</sub> (160.26). Colorless oil liquid. Source: DA SUAN *Allium sativum*.

Ref: 2118.

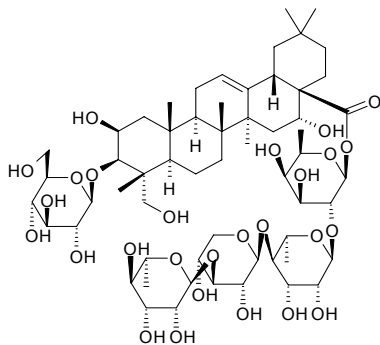
**22515 3-Vinyl-1,2-dithia-5-cyclohexene**C<sub>6</sub>H<sub>8</sub>S<sub>2</sub> (144.26). Source: DA SUAN *Allium sativum*. Ref: 2, 660.**22516 1-Vinyl-4-methoxy-β-carboline**C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O (224.26). Source: KU SHU PI *Picrasma quassioides* [Syn.*Picrasma ailanthoides*]. Ref: 12.**22517 L-5-Vinyl-2-thiooxazolidone**[500-12-9] C<sub>5</sub>H<sub>7</sub>NOS (129.18). Source: GAN LAN *Brassica oleracea* var. *capitata*. Ref: 6.**22518 4-Vinyl-1,2,3-trithia-4-cyclohexene**C<sub>5</sub>H<sub>6</sub>S<sub>3</sub> (162.30). Source: DA SUAN *Allium sativum*. Ref: 2.**22519 Violanthin**C<sub>27</sub>H<sub>30</sub>O<sub>14</sub> (578.53). Source: HUANG GAN CAO *Glycyrrhiza kansuensis*, SAN SE JIN *Viola tricolor*, *Glycyrrhiza* sp. Ref: 660, 2431.**22520 Violaxanthin**[126-29-4] C<sub>40</sub>H<sub>56</sub>O<sub>4</sub> (600.89). mp 208°C. Pharm: Yellow pigment. Source: DAO CAO *Oryza sativa*, FAN MU GUA *Carica papaya*, JIN ZHAN JU *Calendula officinalis*, JING MI *Oryza sativa*, KONG QUE CAO *Tagetes patula*, LI MENG *Citrus limonia*, LI MENG YE *Citrus limonia*, MANG GUO *Mangifera indica*, NING MENG *Citrus limon*, SUAN MO *Rumex acetosa*, SUAN MO YE *Rumex acetosa*, SUAN SHUI CAO *Potamogeton perfoliatus*, YAO YONG PU GONG YING *Taraxacum officinale*, YI ZHU QIAN MA *Urtica dioica*. Ref: 6, 658, 660.**22521 Violutoside**C<sub>19</sub>H<sub>26</sub>O<sub>12</sub> (446.41). mp 173°C (dec). Source: SAN SE JIN *Viola tricolor*. Ref: 6.**22522 Violydoenamide**Tetracosanoyl-*p*-hydroxy phenethylamine C<sub>32</sub>H<sub>57</sub>NO<sub>2</sub> (487.82). Source: ZI HUA DI DING *Viola yedoensis*. Ref: 660.**22523 Virensic acid**[68-14-4] C<sub>18</sub>H<sub>14</sub>O<sub>8</sub> (358.31). mp 245–247°C. Source: JIN SI DAI *Alectoria vivens*. Ref: 6.**22524 Virgataxanthone A**1,3,5,6-Tetrahydroxy-4-[(2*E*)-3,7-dimethylocta-2,6-dienyl]-8-(3-methylbut-2-enyl)xanthone C<sub>28</sub>H<sub>32</sub>O<sub>6</sub> (464.56). Orange amorphous. Pharm: Antioxidant (DPPH scavenger, EC<sub>50</sub> = 0.240μg/mL, control BHA, EC<sub>50</sub> = 0.136μg/mL, Vitamin E, EC<sub>50</sub> = 0.138μg/mL). Source: DUO ZHI ZHI TENG HUANG *Garcinia virgata* (stem cortex). Ref: 3874.

**22525 Virgataxanthone B**

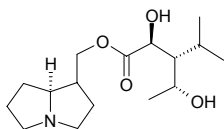
1,3,6-Trihydroxydimethylpyrano-4-[(2*E*)-3,7-dimethylocta-2,6-dienyl]-xanthone C<sub>28</sub>H<sub>30</sub>O<sub>6</sub> (462.55). Yellow amorphous. Source: DUO ZHI ZHI TENG HUANG *Garcinia virgata* (stem cortex). Ref: 3874.

**22526 Virgaureasaponin 1**

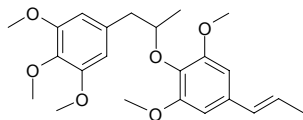
C<sub>59</sub>H<sub>96</sub>O<sub>27</sub> (1237.41). Pharm: Antifungal (microzyme, such as *Candida albicans*). Source: MAO GUO YI ZHI HUANG HUA *Solidago virgaurea*, CHU JU *Bellis perennis*. Ref: 658.

**22527 Viridiflorine**

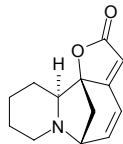
[551-57-5] C<sub>16</sub>H<sub>29</sub>NO<sub>4</sub> (299.41). mp 102.5~103.5°C. Source: YAO YONG DAO TI HU *Cynoglossum officinale*. Ref: 6, 1521.

**22528 (±)-Virolongin**

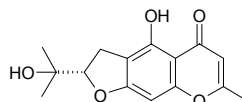
Virolongin [94608-22-7] C<sub>23</sub>H<sub>30</sub>O<sub>6</sub> (402.49). Colorless oil, [α]<sub>D</sub><sup>28</sup> = +16.0° (c = 0.25, chloroform). Pharm: Platelet aggregation inhibitor (PAF trial, 25 μmol/L InRt = 72%, IC<sub>50</sub> = 14.0 μmol/L); PAF receptor antagonist (<sup>3</sup>H] PAF receptor combination trial, IC<sub>50</sub> = 7.0 μmol/L). Source: ZHANG YE HU JIAO *Piper polysyphorum*. Ref: 900.

**22529 Virosecurinine**

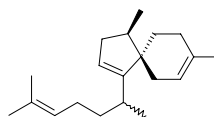
C<sub>13</sub>H<sub>15</sub>NO<sub>2</sub> (217.27). Yellow needles (EtOH), mp 140~142°C, [α]<sub>D</sub><sup>20</sup> = +1040° (c = 0.1, CHCl<sub>3</sub>). Source: YI YE QIU *Securinega suffruticosa* (branch leaf). Ref: 4818.

**22530 Visamminol**

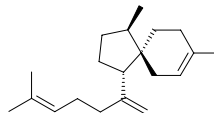
[492-52-4] C<sub>15</sub>H<sub>16</sub>O<sub>5</sub> (276.28). Colorless acicular crystals (petroleum ether-acetone), mp 160°C, [α]<sub>D</sub> = +92° (c = 0.2, chloroform). Pharm: Antispasmodic (male gpg, jejunum, caused by 0.1 μg/mL acetylcholine, 1 μg/mL histamine chloride, or BaCl<sub>2</sub>, ED<sub>50</sub> = 50 μg/mL). Source: CHI A MI *Ammi visnaga*, RI BEN DANG GUI *Angelica japonica*, XING AN SHENG MA *Cimicifuga dahurica*. Ref: 658, 660, 5501.

**22531 Viscida-3,9,14-triene**

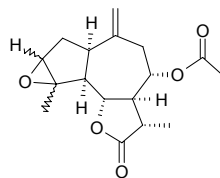
(1-(1,5-Dimethylhex-4-enyl)-4,8-dimethylspiro[4.5]deca-1,7-diene) C<sub>20</sub>H<sub>32</sub> (272.48). Colorless oil. Source: NING BIAN E TAI *Radula perrottetii* (essential oil). Ref: 5272.

**22532 Viscida-3,11(18),14-triene**

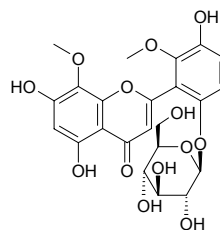
(1,8-Dimethyl-4-(5-methyl-1-methylenehex-4-enyl)spiro[4.5]dec-7-ene) C<sub>20</sub>H<sub>32</sub> (272.48). Colorless oil. Source: NING BIAN E TAI *Radula perrottetii* (essential oil). Ref: 5272.

**22533 Viscidulin B**

[35144-10-6] C<sub>17</sub>H<sub>22</sub>O<sub>5</sub> (306.36). Pharm: Plant growth regulator. Source: NIAN HAO *Artemisia cana* ssp. *viscidula*. Ref: 658.

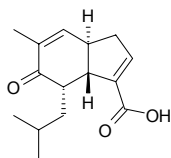
**22534 Viscidulin III-6'-O-β-D-glucopyranoside**

C<sub>23</sub>H<sub>24</sub>O<sub>13</sub> (508.44). Source: HUANG QIN *Scutellaria baicalensis*. Ref: 660.

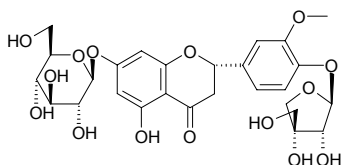


**22535 Viscosmic acid**

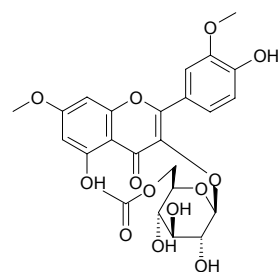
4-Isobutyl-6-methyl-5-oxo-3a,4,5,7a-tetrahydro-1*H*-inden-13-oic acid  
 $C_{15}H_{20}O_3$  (248.32). Amorphous. Source: NIAN MAO LIAO *Polygonum viscosum* (whole herbs). Ref: 3955.

**22536 Viscumneoside I**

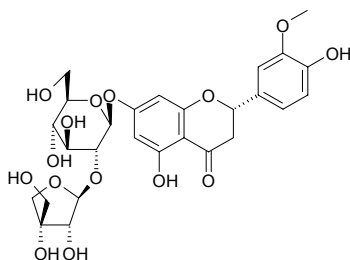
$C_{27}H_{32}O_{15}$  (596.55). Source: FENG XIANG JI SHENG *Viscum articulatum*,  
 HU JI SHENG *Viscum coloratum*. Ref: 660, 1521.

**22537 Viscumneoside II**

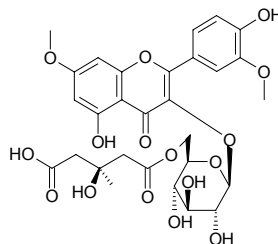
[108886-00-6]  $C_{25}H_{26}O_{13}$  (534.48). Source: HU JI SHENG *Viscum coloratum*.  
Ref: 660, 1521.

**22538 Viscumneoside III**

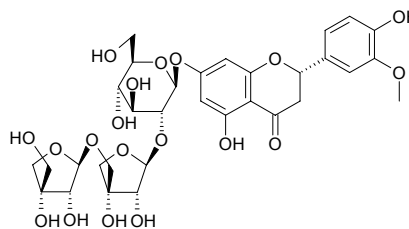
Homoeriodictyol-7-*O*- $\beta$ -*D*-apiosyl-(1 $\rightarrow$ 2)- $\beta$ -*D*-glucopyranoside [118985-27-6]  
 $C_{27}H_{32}O_{15}$  (596.55). White amorphous powder, mp 208–210°C,  $[\alpha]_D^{18} = -67.3^\circ$  ( $c = 0.42$ , methanol). Source: HU JI SHENG *Viscum coloratum*  
 (stem-leaf: content scope on different hosts = 0.05%–0.74%, mean content = 0.30%<sup>[5508]</sup>). Ref: 111, 5508.

**22539 Viscumneoside IV**

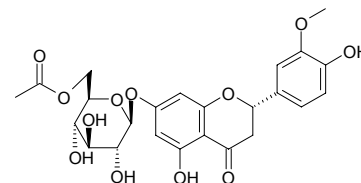
Rhamnazin-*O*- $\beta$ -*D*-(6''- $\beta$ -hydroxy- $\beta$ -methylglutaryl) glucoside [119725-29-0]  
 $C_{29}H_{32}O_{16}$  (637.57). Yellow acicular crystals, mp 195–197°C,  $[\alpha]_D^{20} = +14.64^\circ$   
 ( $c = 0.25$ , methanol). Source: HU JI SHENG *Viscum coloratum*. Ref: 113.

**22540 Viscumneoside V**

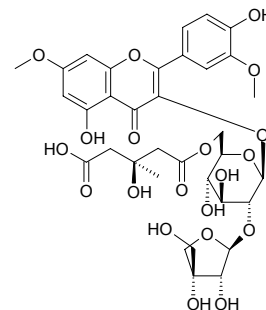
Homoeriodictyol-7-*O*- $\beta$ -*D*-apiosyl-(1 $\rightarrow$ 5)- $\beta$ -*D*-apiosyl-(1 $\rightarrow$ 2)- $\beta$ -*D*-glucopyra-  
 noside [119016-92-1]  $C_{32}H_{40}O_{19}$  (728.66). White amorphous powder, mp  
 136–139°C,  $[\alpha]_D^{20} = -127.0^\circ$  ( $c = 0.42$ , methanol). Source: LENG ZHI HU JI  
 SHENG *Viscum angulatum* (whole herb: yield = 0.0050%<sup>[4626]</sup>), HU JI  
 SHENG *Viscum coloratum* (stem-leaf: content scope on different hosts =  
 0.00%–0.38%, mean content = 0.21%<sup>[5508]</sup>). Ref: 111, 4626, 5508.

**22541 Viscumneoside VI**

Homoeriodictyol-7-*O*- $\beta$ -*D*-(6''-*O*-acetyl)-glucopyranoside [118985-26-5]  
 $C_{24}H_{26}O_{12}$  (506.47). White amorphous powder, mp 124–126°C,  $[\alpha]_D = -78.2^\circ$   
 ( $c = 0.29$ , methanol). Source: HU JI SHENG *Viscum coloratum*. Ref: 111.

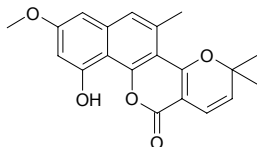
**22542 Viscumneoside VII**

Rhamnazin-3-*O*- $\beta$ -*D*-apiosyl-(1 $\rightarrow$ 2)-[6''-*O*-(3-hydroxy-3-methylglutarate)]glu-  
 coside  $C_{34}H_{40}O_{20}$  (768.69). Yellow ropy liquid,  $[\alpha]_D^{23} = -31.0^\circ$  ( $c = 0.32$ ,  
 methanol). Source: HU JI SHENG *Viscum coloratum*. Ref: 163, 660.

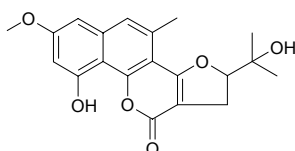


**22543 Vismiaguianin A**

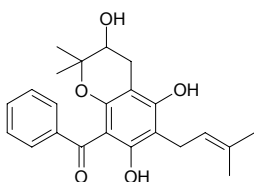
$C_{20}H_{18}O_5$  (338.36). Light yellow needles (MeOH), mp 191~192°C. **Pharm:** Cytotoxic (KB,  $EC_{50} = (1.3 \pm 0.8) \mu\text{g/mL}$ ); DNA strand-scission inactive (DNA strand-scission assay, control 0.025  $\mu\text{g/mL}$  Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22544 Vismiaguianin B**

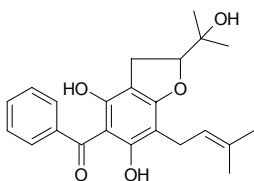
$C_{20}H_{20}O_6$  (356.38). Pale yellow powder (MeOH), mp 222~224°C,  $[\alpha]_D^{22} = +18.0^\circ$  ( $c = 0.05$ ,  $\text{CHCl}_3$ ). **Pharm:** Cytotoxic (KB,  $EC_{50} > 20 \mu\text{g/mL}$ ); DNA strand-scission inactive (DNA strand-scission assay, control 0.025  $\mu\text{g/mL}$  Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22545 Vismiaguianone A**

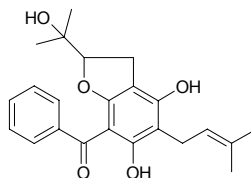
$C_{23}H_{26}O_5$  (382.46). Yellow powder (MeOH), mp 140~142°C,  $[\alpha]_D^{22} = +10.9^\circ$  ( $c = 0.11$ ,  $\text{CHCl}_3$ ). **Pharm:** Cytotoxic (KB,  $EC_{50} > 20 \mu\text{g/mL}$ ); DNA strand-scission inactive (DNA strand-scission assay, control 0.025  $\mu\text{g/mL}$  Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22546 Vismiaguianone B**

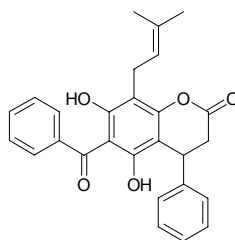
$C_{23}H_{26}O_5$  (382.46). Yellow powder (MeOH), mp 58~60°C,  $[\alpha]_D^{22} = +5.0^\circ$  ( $c = 0.14$ ,  $\text{CHCl}_3$ ). **Pharm:** Cytotoxic (KB,  $EC_{50} > 20 \mu\text{g/mL}$ ); DNA strand-scission activity (DNA strand-scission assay, 2.5  $\mu\text{g/mL}$ , (43  $\pm$  12)% nicked, control 0.025  $\mu\text{g/mL}$  Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22547 Vismiaguianone C**

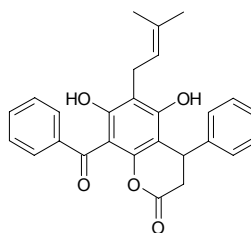
$C_{23}H_{26}O_5$  (382.46). Yellow powder (MeOH), mp 162~164°C,  $[\alpha]_D^{22} = +2.7^\circ$  ( $c = 0.15$ ,  $\text{CHCl}_3$ ). **Pharm:** Cytotoxic (KB,  $EC_{50} > 20 \mu\text{g/mL}$ ); DNA strand-scission inactive (DNA strand-scission assay, control 0.025  $\mu\text{g/mL}$  Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22548 Vismiaguianone D**

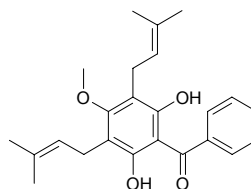
$C_{27}H_{24}O_5$  (428.49). Light yellow needles (MeOH), mp 171~172°C,  $[\alpha]_D^{22} = -147.2^\circ$  ( $c = 0.25$ ,  $\text{CHCl}_3$ ). **Pharm:** Cytotoxic (KB,  $EC_{50} = (2.4 \pm 0.9) \mu\text{g/mL}$ ); DNA strand-scission inactive (DNA strand-scission assay, control 0.025  $\mu\text{g/mL}$  Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

**22549 Vismiaguianone E**

$C_{27}H_{24}O_5$  (428.49). Light yellow powder (MeOH), mp 70~72°C,  $[\alpha]_D^{22} = +198.9^\circ$  ( $c = 0.37$ ,  $\text{CHCl}_3$ ). **Pharm:** Cytotoxic (KB,  $EC_{50} = (3.3 \pm 1.5) \mu\text{g/mL}$ ); DNA strand-scission inactive (DNA strand-scission assay, control 0.025  $\mu\text{g/mL}$  Bleomycin sulfate). **Source:** *Vismia guianensis* (root). **Ref:** 5083.

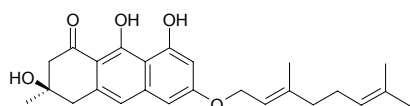
**22550 Vismiaphenone C**

2,6-Dihydroxy-4-methoxy-3,5-bis(3-methyl-2-butenyl)benzophenone  
 $C_{24}H_{28}O_4$  (380.49). Yellow gum. **Source:** FEI JI TENG HUANG *Garcinia pseudoguttifera* (heartwood). **Ref:** 3911.

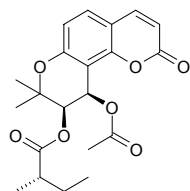


**22551 Vismione D**

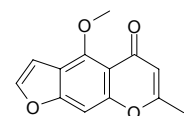
[87605-72-9] C<sub>25</sub>H<sub>30</sub>O<sub>5</sub> (410.52). [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -98.0° (c = 0.102, MeOH). **Pharm:** Antineoplastic (hmn, adenocarcinoma in colon ascendens); antitrypanosomal (*Trypanosoma brucei*, IC<sub>50</sub> = (9.0±3.5)μg/mL, control Melarsoprol, IC<sub>50</sub> = (0.0015±0.0009)μg/mL; *Trypanosoma cruzi*, IC<sub>50</sub> = (4.6±1.6)μg/mL, control Benznidazole, IC<sub>50</sub> = (0.39±0.15)μg/mL)<sup>[5008]</sup>; antileishmanial (*Leishmania donovani*, IC<sub>50</sub> = (0.37±0.03)μg/mL, control Miltefosine, IC<sub>50</sub> = (0.23±0.03)μg/mL)<sup>[5008]</sup>; antimalarial (*Plasmodium falciparum*, IC<sub>50</sub> = (1.01±0.13)μg/mL, control Chloroquine, IC<sub>50</sub> = (0.055±0.02)μg/mL, control Artemisinin, IC<sub>50</sub> = (0.0011±0.0006)μg/mL)<sup>[5008]</sup>; cytotoxic (L-6, IC<sub>50</sub> = (4.1±1.0)μg/mL, control Podophyllotoxin, IC<sub>50</sub> = 0.0075μg/mL; BST, IC<sub>50</sub> = 73.3μg/mL, control Cyclophosphamide, IC<sub>50</sub> = 16.33μg/mL)<sup>[5008]</sup>. **Source:** DONG FANG WEI SI MU *Vismia orientalis* (stem cortex), PU SUO MU *Psorospermum febrifugum*. **Ref:** 658, 5008.

**22552 Visnadine**

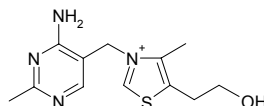
Visnamine [477-32-7] C<sub>21</sub>H<sub>24</sub>O<sub>7</sub> (388.42). **Pharm:** Antispasmodic (animal model); increases coronary flow (anesthetic dog, endarterial injection 10mg/kg, increase of blood flow 30~100% for 29 min); antihypercholesterolemic (rbt, orl, 3~5mg/(kg·d), reduces the level of cholesterol in serum); used in treatment of asthmatic bronchitis (gpg); vasodilator (animal model); LD<sub>50</sub> (mus, orl) = 2240mg/kg, (mus, sc) ≥ 370mg/kg, (mus, ip) = 500mg/kg, (rat, orl) ≥ 4000mg/kg, (rbt, iv) = 50mg/kg, (rbt, orl) ≥ 600mg/kg, (dog iv) = 20mg/kg, (dog orl) ≥ 200mg/kg. **Source:** CHI A MI *Ammi visnaga*, ZHANG GUO QIN *Phlojodicarpus sibiricus*, *Anethum* sp., *Ferula* sp., *Phlojodicarpus* sp. **Ref:** 4, 658.

**22553 Visnagin**

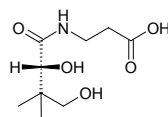
[82-57-5] C<sub>13</sub>H<sub>10</sub>O<sub>4</sub> (230.22). Acicular crystals (water or petroleum ether-acetone), mp 142~145°C. **Pharm:** Antispasmodic (gpg jejunum, spasm caused by 3mg BaCl<sub>2</sub>, ED = 4.5mg, rat, therapy dose 9mg/kg); phototoxic (green algae and phage T4, M13); LD<sub>50</sub> (mus, orl) > 309mg/kg. **Source:** CHI A MI *Ammi visnaga*, XING AN SHENG MA *Cimicifuga dahurica*. **Ref:** 660, 661, 5501.

**22554 Vitamin B<sub>1</sub>**

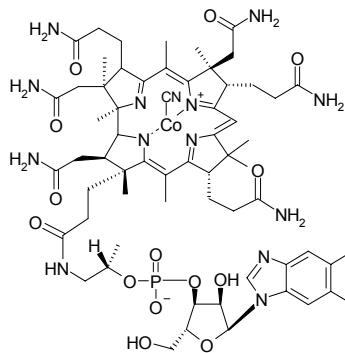
Thiamine C<sub>12</sub>H<sub>17</sub>N<sub>4</sub>OS<sup>+</sup> (265.36). **Pharm:** Coenzyme (in decarboxylating reaction during sugar metabolism). **Source:** CU LIU GUO *Hippophae rhamnoides*, DA ZAO *Ziziphus jujuba*, DONG CHONG XIA CAO *Cordyceps sinensis*, GOU QI ZI *Lycium chinense*, HU LU BA *Trigonella foenum-graecum*, JI GUAN ZI *Celosia cristata* (seed), LU GEN *Phragmites communis*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SANG YE *Morus alba* (leaf: content scope of 8 origins = 0.00034%~0.0019%, mean content = 0.00068%)<sup>[5508]</sup>, ZI SU *Perilla frutescens* var. *arguta*. **Ref:** 2, 661, 658, 1521, 5508.

**22555 Vitamin B<sub>5</sub>**

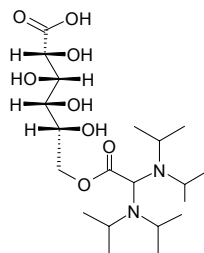
*N*-(2,4-Dihydroxy-3,3-dimethyl-1-oxobutyl)-β-alanine [79-83-4] C<sub>9</sub>H<sub>17</sub>NO<sub>5</sub> (219.24). Viscous oil, mp 271°C (dec), [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +37.5° (H<sub>2</sub>O), hygroscopic. **Source:** YE ZI RANG *Cocos nucifera*. **Ref:** 6, 660, 1521.

**22556 Vitamin B<sub>12</sub>**

5,6-Dimethylbenzimidazolyl cyanocobamide [68-19-9] C<sub>63</sub>H<sub>88</sub>CoN<sub>14</sub>O<sub>14</sub>P (1355.40). **Pharm:** Coenzyme. **Source:** CHUN *Brasenia schreberi*, CU LIU GUO *Hippophae rhamnoides*, DANG GUI *Angelica sinensis*, DONG CHONG XIA CAO *Cordyceps sinensis*, HEI DA DOU *Glycine max*, KONG SHI CHUN *Ulva pertusa*, QUN DAI CAI *Undaria pinnatifida*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 658, 1521.

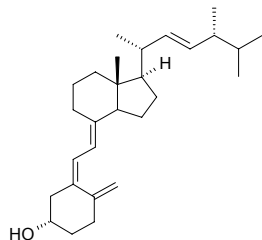
**22557 Vitamin B<sub>15</sub>**

[11006-56-7] C<sub>20</sub>H<sub>40</sub>N<sub>2</sub>O<sub>8</sub> (436.55). **Source:** MI PI KANG *Oryza sativa*. **Ref:** 6.

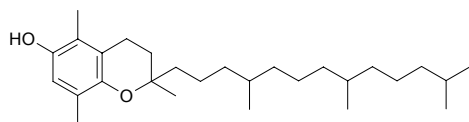


**22558 Vitamin D<sub>2</sub>**

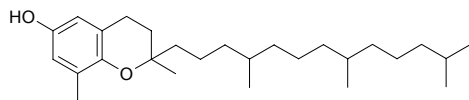
Ergocalciferol [50-14-6] C<sub>28</sub>H<sub>44</sub>O (396.66). White crystals, mp 115.8°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +82.6° (acetone), insoluble in water, easily soluble in EtOH, ether, chloroform.<sup>[5507]</sup> **Pharm:** Antirachitic vitamin. **Source:** MAI JIAO *Claviceps purpurea*, SONG XUN *Tricholoma matsutake* [Syn. *Armillaria matsutake*]. **Ref:** 6, 1521, 5507.

**22559 Vitamin E $\beta$** 

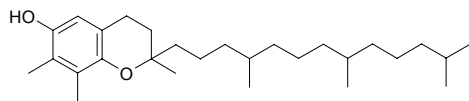
$\beta$ -Tocopherol C<sub>28</sub>H<sub>48</sub>O<sub>2</sub> (416.69). **Source:** CU LIU GUO *Hippophae rhamnoides*, MU JIN ZI *Hibiscus syriacus*, WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 6, 7. ‡Note: see compound 21413.

**22560 Vitamin E $\delta$** 

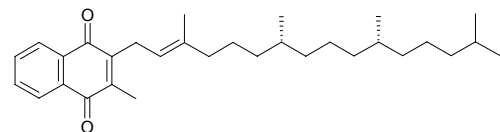
$\delta$ -Tocopherol C<sub>27</sub>H<sub>46</sub>O<sub>2</sub> (402.67). bp (+) 150°C/0.001mmHg. **Source:** CU LIU GUO *Hippophae rhamnoides*, MU JIN ZI *Hibiscus syriacus*, WU WEI ZI *Schisandra chinensis*. **Ref:** 2, 6. ‡Note: see compound 21412.

**22561 Vitamin E $\gamma$** 

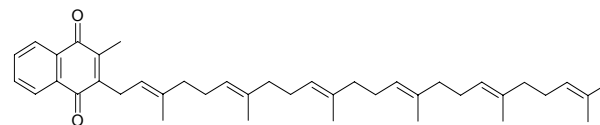
$\gamma$ -Tocopherol C<sub>28</sub>H<sub>48</sub>O<sub>2</sub> (416.69). mp -3°C~+2°C. **Source:** CU LIU GUO *Hippophae rhamnoides*, LUO HUA SHENG *Arachis hypogaea*, WU WEI ZI *Schisandra chinensis*, YE ZI RANG *Cocos nucifera*. **Ref:** 2, 6. ‡Note: see compound 21414.

**22562 Vitamin K<sub>1</sub>**

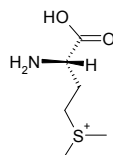
2-Methyl-3-phytyl-1,4-naphthoquinone [84-80-0] C<sub>31</sub>H<sub>46</sub>O<sub>2</sub> (450.71). mp -20°C. **Pharm:** Analgesic; antidote (diphacin poisoning); hemostatic; used in treatment of hypoprothrombinemia disease. **Source:** CU LIU GUO *Hippophae rhamnoides*. **Ref:** 2, 658.

**22563 Vitamin K<sub>2</sub>**

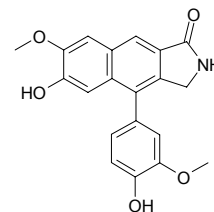
Farnopquinone [84-81-1] C<sub>41</sub>H<sub>56</sub>O<sub>2</sub> (580.90). **Source:** CU LIU GUO *Hippophae rhamnoides*. **Ref:** 2.

**22564 Vitamin U**

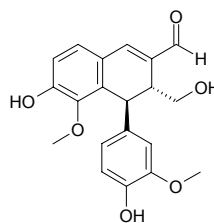
Cabagin-U; Vitas-U [1115-84-0] C<sub>6</sub>H<sub>14</sub>NO<sub>2</sub>S<sup>+</sup> (164.25). **Pharm:** Used in treatment of gastric disorders; antihistamine. **Source:** GAN LAN *Brassica oleracea* var. *capitata*. **Ref:** 6, 1521, 5507.

**22565 Vitidoamine A**

6-Hydroxy-4-(4-hydroxy-3-methoxyphenyl)-7-methoxy-3-nicotinmethyl-2-naphthoic acid- $\gamma$ -lactam C<sub>20</sub>H<sub>17</sub>NO<sub>5</sub> (351.36). Amorphous powder. **Pharm:** Antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control *L*-Cysteine). **Source:** HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.00195%). **Ref:** 4791.

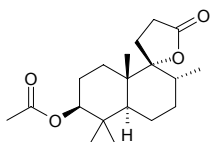
**22566 Vitidoin A**

6-Hydroxy-4 $\beta$ -(4-hydroxy-3-methoxyphenyl)-3 $\alpha$ -hydroxymethyl-5-methoxy-3,4-dihydro-2-naphthaldehyde C<sub>20</sub>H<sub>20</sub>O<sub>6</sub> (356.38). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>13</sup> = -79.4° (*c* = 3.2, MeOH). **Pharm:** Antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control *L*-Cysteine). **Source:** HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.015%). **Ref:** 4791.

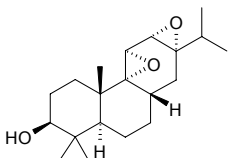


**22567 Vitedoin B**

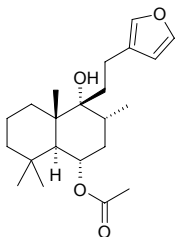
(*rel*-3*S*,5*S*,8*R*,9*R*,10*S*)-3-Acetoxy-14,15,16-trinor-13,9-labdanolide C<sub>19</sub>H<sub>30</sub>O<sub>4</sub> (322.45). Colorless needles (hexane–EtOAc), mp 95–96°C, [ $\alpha$ ]<sub>D</sub><sup>29</sup> = +4.7° (*c* = 0.9, CHCl<sub>3</sub>). Source: HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.00097%). Ref: 4791.

**22568 Vitetrifolin A**

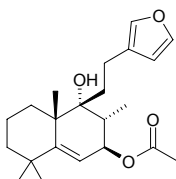
C<sub>20</sub>H<sub>32</sub>O<sub>3</sub> (320.48). Colorless acicular crystals (hexane–EtOAc), mp 174–175°C, [ $\alpha$ ]<sub>D</sub><sup>19</sup> = –11.7° (*c* = 0.9, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 746.

**22569 Vitetrifolin B**

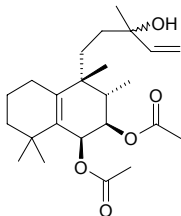
C<sub>22</sub>H<sub>34</sub>O<sub>4</sub> (362.51). Colorless syrup, [ $\alpha$ ]<sub>D</sub><sup>29</sup> = –56.3° (*c* = 1.4, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 746.

**22570 Vitetrifolin C**

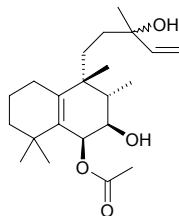
C<sub>22</sub>H<sub>32</sub>O<sub>4</sub> (360.5). Colorless syrup, [ $\alpha$ ]<sub>D</sub><sup>19</sup> = 93.4° (*c* = 1, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 746.

**22571 Vitetrifolin D**

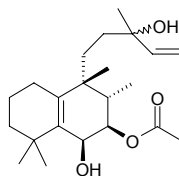
(*rel*-6*S*,7*R*,8*S*,9*R*)-6,7-Diacetoxy-5(10),14-halimadien-13-ol C<sub>24</sub>H<sub>38</sub>O<sub>5</sub> (406.57). Colorless syrup, [ $\alpha$ ]<sub>D</sub><sup>28</sup> = +107.8° (*c* = 0.9, acetone). Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00027%dw)<sup>[4623]</sup>, MAN JING ZI *Vitex trifolia* (fruit). Ref: 4126, 4623.

**22572 Vitetrifolin E**

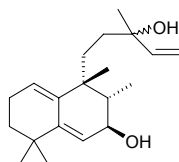
(*rel*-6*S*,7*R*,8*S*,9*R*)-6-Acetoxy-5(10),14-halimadien-7,13-diol C<sub>22</sub>H<sub>36</sub>O<sub>4</sub> (364.53). Colorless needles (hexane–acetone), mp 143–144°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +126.6° (*c* = 1.4, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 4126.

**22573 Vitetrifolin F**

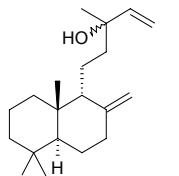
(*rel*-6*S*,7*R*,8*S*,9*R*)-7-Acetoxy-5(10),14-halimadien-6,13-diol C<sub>22</sub>H<sub>36</sub>O<sub>4</sub> (364.53). Colorless syrup, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +94.6° (*c* = 1.1, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 4126.

**22574 Vitetrifolin G**

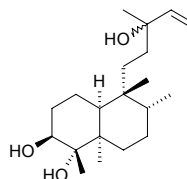
(*rel*-7*S*,8*S*,9*R*)-1(10),5,14-Halimatrien-7,13-diol C<sub>20</sub>H<sub>32</sub>O<sub>2</sub> (304.48). Colorless needles (hexane–acetone), mp 146–147°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = –44.0° (*c* = 0.4, acetone). Source: MAN JING ZI *Vitex trifolia*. Ref: 4126.

**22575 Vitexifolin A**

C<sub>20</sub>H<sub>34</sub>O (290.49). Colorless syrup, [ $\alpha$ ]<sub>D</sub><sup>19</sup> = +5.2° (*c* = 0.7, acetone). Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00024%dw). Ref: 4623.

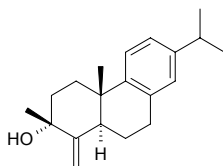
**22576 Vitexifolin B**

(*rel*-3*S*,4*S*,5*R*,8*R*,9*R*,10*S*)-14-Clerodene-3,4,13-triol C<sub>20</sub>H<sub>36</sub>O<sub>3</sub> (324.51). Colorless syrup, [ $\alpha$ ]<sub>D</sub><sup>21</sup> = +0.4° (*c* = 2.3, acetone). Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00079%dw). Ref: 4623.

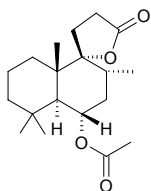


**22577 Vitexifolin C**

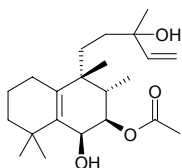
(*rel*-3*R*,5*R*,10*S*)-19(4→3)-Abeo-4(18),8,11,13-abietatetraen-3-ol C<sub>20</sub>H<sub>28</sub>O (284.45). Colorless syrup,  $[\alpha]_D^{17} = +168.1^\circ$  ( $c = 0.7$ , acetone). **Source:** DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00021%dw). **Ref:** 4623.

**22578 Vitexifolin D**

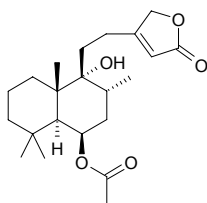
(*rel*-5*S*,6*S*,8*R*,9*R*,10*S*)-14,15,16-Trinor-13,9-labdanolide C<sub>19</sub>H<sub>30</sub>O<sub>4</sub> (322.45). Colorless needles (hexane–EtOAc), mp 100–101°C,  $[\alpha]_D^{17} = -4.4^\circ$  ( $c = 2.8$ , acetone). **Source:** DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.00034%dw). **Ref:** 4623.

**22579 Vitexifolin F**

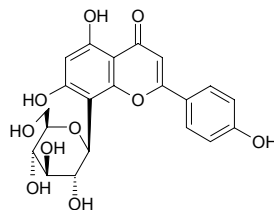
C<sub>22</sub>H<sub>36</sub>O<sub>4</sub> (364.53). Colorless oil,  $[\alpha]_D = +69.1^\circ$  ( $c = 0.35$ , acetone),  $[\alpha]_D = +94.6^\circ$  ( $c = 1.1$ , acetone). **Pharm:** Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = 34 μmol/L)<sup>[2550]</sup>. **Source:** MAN JING ZI *Vitex trifolia*. **Ref:** 2550.

**22580 Vitexilactone**

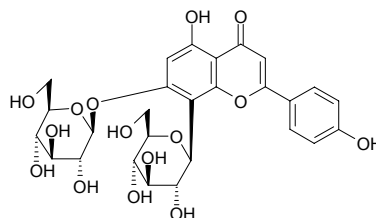
C<sub>22</sub>H<sub>34</sub>O<sub>5</sub> (378.51). Colorless needles (hexane–acetone), mp 148–149°C, mp 144–146°C,  $[\alpha]_D = -11.2^\circ$  ( $c = 0.85$ , CHCl<sub>3</sub>),  $[\alpha]_D = -12.4^\circ$  ( $c = 1.11$ , CHCl<sub>3</sub>). **Pharm:** Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = 66 μmol/L)<sup>[2550]</sup>, cytotoxic (*in vitro*, PC12, GI<sub>50</sub> > 5 μg/mL, control Cisplatin, GI<sub>50</sub> = 0.111 μg/mL; HCT116, GI<sub>50</sub> > 5 μg/mL, control Cisplatin, GI<sub>50</sub> = 0.794 μg/mL)<sup>[4623]</sup>. **Source:** DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (seed: yield = 0.0065%dw)<sup>[4623]</sup>, MAN JING ZI *Vitex trifolia*. **Ref:** 2550, 4623.

**22581 Vitexin**

Apigenin-8-*C*-β-*D*-glucopyranoside [3681-93-4] C<sub>21</sub>H<sub>20</sub>O<sub>10</sub> (432.39). mp 258–259°C, 263°C, 269–270°C (dec),  $[\alpha]_D^{20} = -14.5^\circ$  ( $c = 2.79$ , pyridine). **Pharm:** Antineoplastic; anti-inflammatory; antispasmodic; thyroid peroxidase inhibitor; antihypertensive (weak); antioxidant (DPPH scavenger, 10 μmol/L, ScRt = 17%, control BHT, 10 μmol/L, ScRt = 43%)<sup>[5319]</sup>; anti-ischemia myocardial (anesthetic dog iv, 20 mg/kg, protects complete ischemia myocardial, the longest active time = 120 min, longer than propranolol); phytoalexin<sup>[4727]</sup>; β-glucosidase inhibitor<sup>[4727]</sup>; pectinase inhibitor<sup>[4727]</sup>. **Source:** BIN MU JING *Vitex littoralis* (the compound was isolated from the plant in 1963)<sup>[5505]</sup>, CHANG BAN JIN LIAN HUA *Trollius macropetalus* (flower: mean content = 0.457%)<sup>[5508]</sup>, GAN SU SHAN ZHA *Crataegus kansuensis* (dried ripe fruit: content = 0.031%)<sup>[5508]</sup>, HU BEI SHAN ZHA *Crataegus hupehensis* (dried ripe fruit: mean content of 5 origins = 0.084%)<sup>[5508]</sup>, HU LU BA *Trigonella foenum-graecum* (dried ripe seed: content scope of 18 origins = 0.0029%–0.0184%, mean content = 0.0087%)<sup>[5508]</sup>, HUANG GUA *Cucumis sativus* (leaf)<sup>[4727]</sup>, JIN LIAN HUA *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*], LIAO NING SHAN ZHA *Crataegus sanguinea* (dried ripe fruit: content = 0.038%)<sup>[5508]</sup>, LV CAO *Humulus japonicus* [Syn. *Humulus scandens*], MAN JING ZI *Vitex trifolia* (dried ripe fruit: mean content of 16 origins = 0.0489%)<sup>[5508]</sup>, MAO SHAN ZHA *Crataegus maximowiczii* (dried ripe fruit: content = 0.306%)<sup>[5508]</sup>, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts), SHAN LI HONG *Crataegus pinnatifida* var. *major* (dried ripe fruit: mean content of 4 origins = 0.031%)<sup>[5508]</sup>, SHAN ZHA *Crataegus pinnatifida* (dried ripe fruit: content scope = 0.018%–0.31%)<sup>[5501]</sup>, mean content of 3 origins = 0.068%)<sup>[5508]</sup>, SHUI WU GONG *Kyllinga brevifolia*, SUAN JIAO *Tamarindus indica*, TIAN SHAN ZHU ZI *Garcinia dulcis* (fruit), WU MAO SHAN ZHA *Crataegus pinnatifida* var. *psilosa* (dried ripe fruit: content = 0.042%)<sup>[5508]</sup>, XIN XI LAN MU JING *Vitex lucens*, YE GUAN MEN *Lespedeza cuneata*, YING GUO SHAN ZHA *Crataegus oxyacantha*, YUN NAN SHAN ZHA *Crataegus scabrifolia* (dried ripe fruit: content = 0.081%)<sup>[5508]</sup>, occurs in many plants (*Adonis* spp., *Alsophila* spp., *Larix* spp., *Lespedeza* spp., *Prosopis* spp. and other plants). **Ref:** 2, 245, 615, 658, 660, 1521, 3808, 4727, 5319, 5501, 5505, 5508.

**22582 Vitexin-7-glucoside**

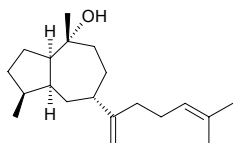
C<sub>27</sub>H<sub>30</sub>O<sub>15</sub> (594.53). **Source:** HU LU BA *Trigonella foenum-graecum*. **Ref:** 6.



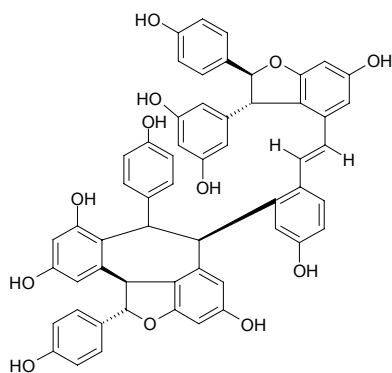


**22583 (+)-(1*R*\*,4*S*\*,5*S*\*,7*S*\*,10*S*\*)-Viticulol**

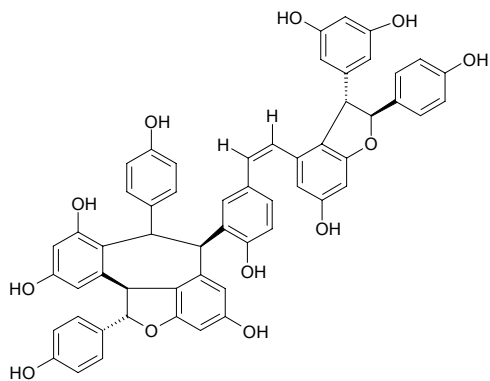
(+)-(1*S*\*,3*aR*\*,4*S*\*,7*S*\*,8*aS*\*)-1,4-Dimethyl-7-(5-methyl-1-methylene-hex-4-enyl)-decahydroazulen-4-ol C<sub>20</sub>H<sub>34</sub>O (290.49). Colorless oil. [Source](#): *Saccogyna viticulosa* (essential oil). [Ref](#): 3839.

**22584 (+)-Vitisin A**

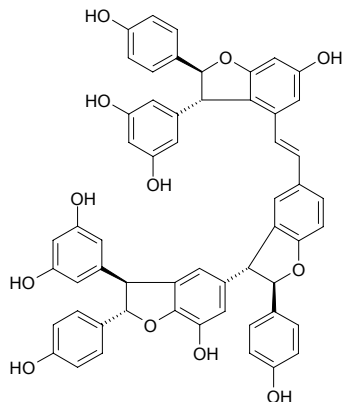
C<sub>56</sub>H<sub>42</sub>O<sub>12</sub> (906.95). [Source](#): SHAN PU TAO *Vitis amurensis*. [Ref](#): 2233, 2234.

**22585 (+)-cis-Vitisin A**

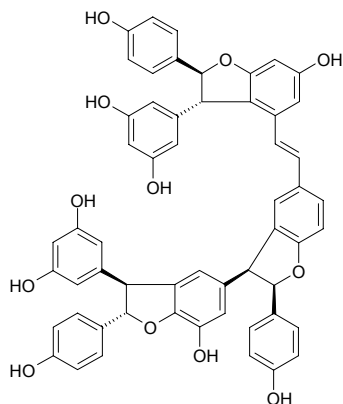
C<sub>56</sub>H<sub>42</sub>O<sub>12</sub> (906.95). [Source](#): SHAN PU TAO *Vitis amurensis*. [Ref](#): 2233, 2234.

**22586 Vitisin B**

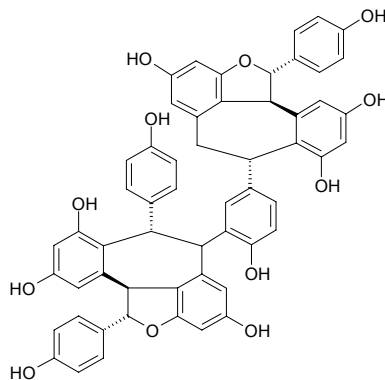
C<sub>56</sub>H<sub>42</sub>O<sub>12</sub> (906.95). [Pharm](#): TNF inhibitor. [Source](#): XIE PU TAO *Vitis coignetiae*. [Ref](#): 2233, 2234.

**22587 Vitisin C**

[180580-73-8] C<sub>56</sub>H<sub>42</sub>O<sub>12</sub> (906.94). [α]<sub>D</sub> = +239.9° (c = 0.5, methanol). [Pharm](#): TNF inhibitor. [Source](#): PU<sup>(2)</sup> TAO *Vitis vinifera*. [Ref](#): 1168.

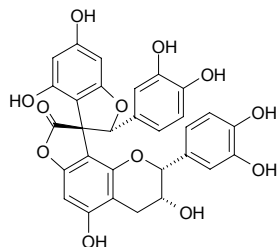
**22588 (+)-Vitisin D**

C<sub>56</sub>H<sub>42</sub>O<sub>12</sub> (906.95). [Source](#): SHAN PU TAO *Vitis amurensis*. [Ref](#): 2233, 2234.

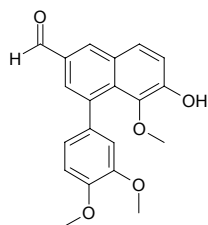


**22589 Vitisinol**

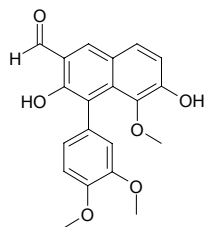
$C_{30}H_{22}O_{12}$  (574.50). White powder,  $[\alpha]_D^{22} = -90^\circ$  ( $c = 0.1$ , MeOH). Source: SHAN PU TAO *Vitis amurensis*. Ref: 772.

**22590 Vitrofolal A**

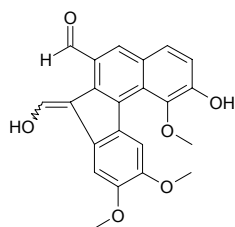
$C_{20}H_{18}O_5$  (338.36). Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part). Ref: 3052.

**22591 Vitrofolal B**

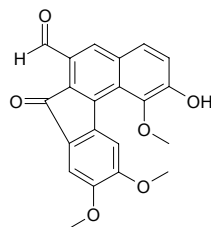
$C_{20}H_{18}O_6$  (354.36). Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part). Ref: 3052.

**22592 Vitrofolal C**

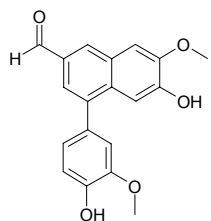
$C_{22}H_{18}O_6$  (378.39). Pharm: Antibacterial (18 Methicillin-resistant *Staphylococcus aureus* MRSA, MIC = or > 64 $\mu$ g/mL). Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part). Ref: 3052.

**22593 Vitrofolal D**

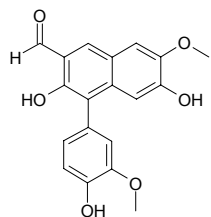
$C_{21}H_{16}O_6$  (364.36). Red amorphous solid. Pharm: Antibacterial (18 Methicillin-resistant *Staphylococcus aureus* MRSA, MIC = 16, 32, or >64 $\mu$ g/mL). Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part: yield = 0.00023%dw). Ref: 3052.

**22594 Vitrofolal E**

$C_{19}H_{16}O_5$  (324.34). Yellowish amorphous solid. Pharm: Antibacterial (18 Methicillin-resistant *Staphylococcus aureus* MRSA, MIC = or > 64 $\mu$ g/mL)<sup>[3052]</sup>, antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control *L*-Cysteine)<sup>[4791]</sup>. Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part: yield = 0.00011%dw), HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.00039%). Ref: 3052, 4791.

**22595 Vitrofolal F**

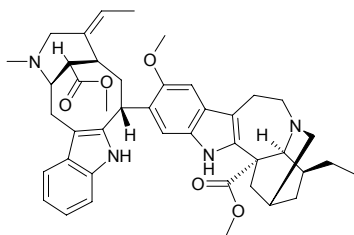
$C_{19}H_{16}O_6$  (340.34). Yellowish amorphous solid. Pharm: Antioxidant (ferric thiocyanate method, 0.5mmol/L, stronger than control Vitamin E; DPPH radical scavenger, DPPH 0.1mmol/L, 0.02mmol/L, stronger than control *L*-Cysteine)<sup>[4791]</sup>. Source: DAN YE MAN JING *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (underground part: yield = 0.000040%dw), HUANG JING ZHONG ZI *Vitex negundo* (seed: yield = 0.00039%). Ref: 3052, 4791.



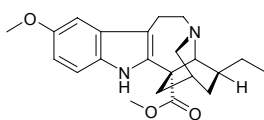
**22596 Voacamine**

[3371-85-5]  $C_{43}H_{52}N_4O_5$  (704.92). Prismatic crystals (methanol–acetone), mp 223°C (dec),  $[\alpha]_D^{20} = -52^\circ$  ( $c = 1$ , chloroform),  $[\alpha]_D^{22} = -46^\circ$  ( $c = 1.4$ , chloroform).

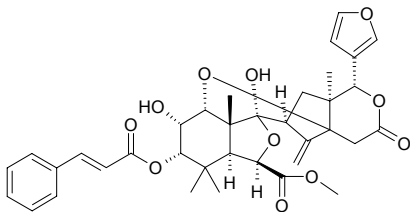
**Pharm:** Antibacterial (gram-positive bacteria); antineoplastic (mus, leukemia P<sub>388</sub>, ED<sub>50</sub> = 2.6 μg/mL). **Source:** family Apocynaceae spp. **Ref:** 661.

**22597 Voacangine**

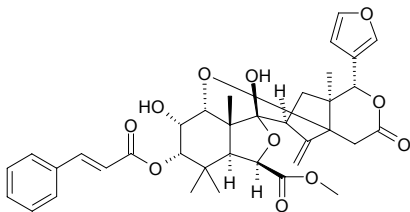
$C_{22}H_{28}N_2O_3$  (368.48). **Source:** LUO SHI TENG *Trachelospermum jasminoides*. **Ref:** 660.

**22598 Voamatin A**

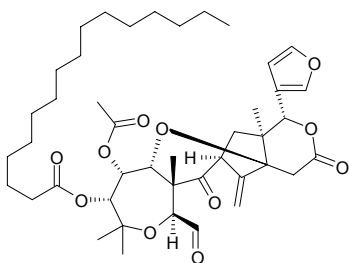
$C_{36}H_{40}O_{11}$  (648.71). **Source:** *Astrotrichilia voamatata* (stem cortex). **Ref:** 3903.

**22599 Voamatin B**

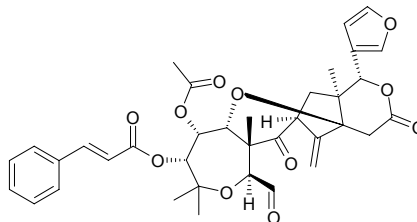
$C_{36}H_{40}O_{11}$  (648.71). **Source:** *Astrotrichilia voamatata* (stem cortex). **Ref:** 3903.

**22600 Voamatin C**

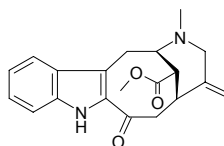
$C_{43}H_{62}O_{11}$  (754.97). Amorphous. **Source:** *Astrotrichilia voamatata* (stem cortex). **Ref:** 3903.

**22601 Voamatin D**

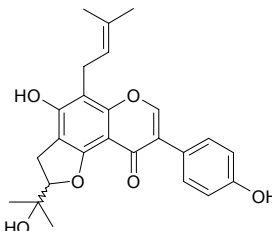
$C_{36}H_{38}O_{11}$  (646.70). Amorphous. **Source:** *Astrotrichilia voamatata* (stem cortex). **Ref:** 3903.

**22602 Vobasine**

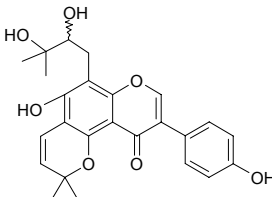
[2124-83-0]  $C_{21}H_{24}N_2O_3$  (352.44). **Pharm:** Analgesic; antipyretic. **Source:** HAI NAN GOU YA HUA *Ervatamia hainanensis*, LUO SHI TENG *Trachelospermum jasminoides*, family Apocynaceae spp. **Ref:** 658, 660.

**22603 Vogelin H**

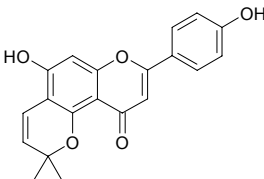
7,4'-Dihydroxy-8-(γ,γ-dimethylallyl)-2''ζ-(4''-hydroxyisopropyl)dihydrofurano [1'',3''-:5,6]isoflavone  $C_{25}H_{26}O_6$  (422.48). Pale yellow powder, mp 195–197°C,  $[\alpha]_D^{20} = -38^\circ$  ( $c = 0.0015$ ,  $CHCl_3$ ). **Source:** *Erythrina vogelii*. **Ref:** 4421.

**22604 Vogelin I**

7,4'-Dihydroxy-8-[(2''ζ,3'''-dihydroxy-3'''-methyl)butyl]-2'',2''-dimethyl-3'',4''-dehydropyrano[1'',4''-:5,6]isoflavone  $C_{25}H_{26}O_7$  (438.48). Pale yellow powder, mp 248–249°C,  $[\alpha]_D^{20} = -42^\circ$  ( $c = 0.0050$ ,  $CHCl_3$ ). **Source:** *Erythrina vogelii*. **Ref:** 4421.

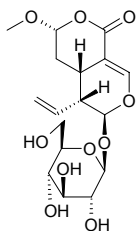
**22605 Vogelin J**

7,4'-Dihydroxy-2'',2''-dimethyl-3'',4''-dehydropyrano[1'',4''-:5,6]flavone  $C_{20}H_{16}O_5$  (336.35). Pale yellow needles, mp 238–239°C. **Source:** *Erythrina vogelii*. **Ref:** 4421.

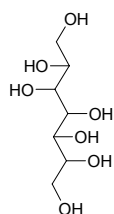


**22606 Vogeloside**

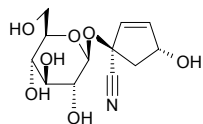
$C_{17}H_{24}O_{10}$  (388.37). Source: HUA MAO *Halenia corniculata*, REN DONG TENG *Lonicera japonica*, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (leaf, flower and twig: yield = 0.0076%dw). Ref: 660, 4723.

**22607 Volemitol**

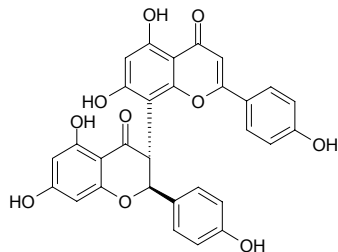
[488-38-0]  $C_7H_{16}O_7$  (212.21). Pharm: Sweetener. Source: GAO BAO CHUN *Primula elatior*, HEI SHI ER *Dermatocarpon minutum*. Ref: 658, 660.

**22608 Volkenin**

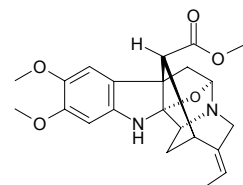
[66574-40-4]  $C_{12}H_{17}NO_7$  (287.28). Pharm: Toxin. Source: *Barteria fistulosa*. Ref: 658.

**22609 Volkensiflavone**

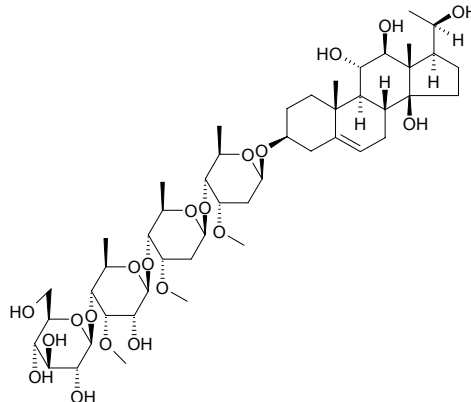
[27542-37-6]  $C_{30}H_{20}O_{10}$  (540.49). mp (+) 300°C (dec). Pharm: Antioxidant inactive (DPPH scavenger, 10 μmol/L, ScRt = 5%; control BHT, 10 μmol/L, ScRt = 43%, IC<sub>50</sub> = 19.00 μmol/L)<sup>[4422]</sup>. Source: SHAN ZHU ZI *Garcinia multiflora*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). Ref: 6, 4422.

**22610 Volkensine**

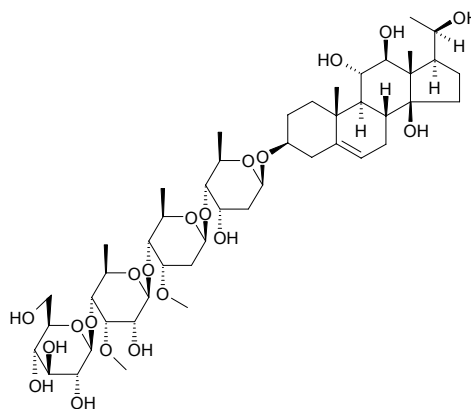
$C_{22}H_{26}N_2O_5$  (398.46). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0002%). Ref: 3020.

**22611 Volubiloside A**

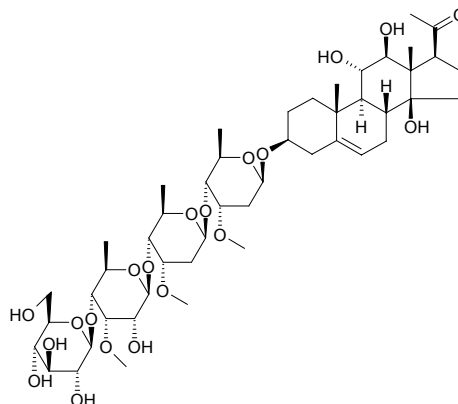
$C_{48}H_{80}O_{20}$  (977.16). Colorless needles (MeOH), mp 181~182 °C (dec),  $[\alpha]_D^{25} = -16.7^\circ$  ( $c = 0.2$ , MeOH). Source: NAN SHAN TENG *Dregea volubilis*. Ref: 1920.

**22612 Volubiloside B**

$C_{47}H_{78}O_{20}$  (963.13). Crystals (MeOH-CH<sub>3</sub>CN), mp 178~179 °C (dec),  $[\alpha]_D^{25} = -17.6^\circ$  ( $c = 0.2$ , MeOH). Source: NAN SHAN TENG *Dregea volubilis*. Ref: 1920.

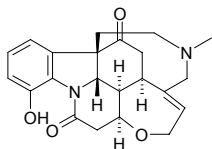
**22613 Volubiloside C**

$C_{48}H_{78}O_{20}$  (975.14). Crystals (MeOH-CH<sub>3</sub>CN), mp 218~220 °C (dec),  $[\alpha]_D^{25} = +23.8^\circ$  ( $c = 0.14$ , MeOH). Source: NAN SHAN TENG *Dregea volubilis*. Ref: 1920.

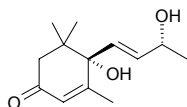


**22614 Vomisine**

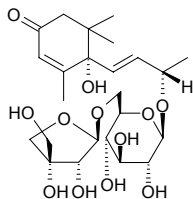
[125-15-5] C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub> (380.45). mp 278~280°C. Source: MA QIAN ZI *Strychnos nux-vomica*. Ref: 2, 542, 1521.

**22615 Vomifoliol**

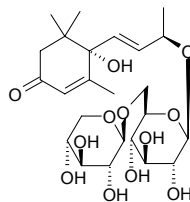
Blumenol A [23526-45-6] C<sub>13</sub>H<sub>20</sub>O<sub>3</sub> (224.30). Colorless rhombic crystals (benzene), mp 112~114°C, [α]<sub>D</sub><sup>18</sup> = +215.3° (c = 1.0, methanol); [α]<sub>D</sub><sup>25</sup> = +111.4° (c = 0.14, CHCl<sub>3</sub>). Pharm: Antineoplastic (HL-60, ED<sub>50</sub> = 20μg/mL); cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells)<sup>[5038]</sup>; platelet aggregation inhibitor (rbt platelets induced by thrombin, 100μg/mL, add thrombin 0.1u/mL, AggRt = (92.1±0.1)%, control AggRt = (92.6±0.4)%; add AA, 100μmol/L, 100μg/mL, AggRt = (87.6±1.3)%, control AggRt = (87.8±0.3)%, Aspirin 50μg/mL, AggRt = (11.7±10.1)%; add collagen 10μg/mL, 100μg/mL, AggRt = (88.2±0.2)%, control AggRt = (89.3±0.5)%, Aspirin 100μg/mL, AggRt = (81.3±0.5)%; add PAF 2ng/mL, 100μg/mL, AggRt = (92.7±0.1)%, control AggRt = (93.0±0.6)%<sup>[4938]</sup>. Source: BAI SHOU WU *Cynanchum bungei*, DA ZAO *Ziziphys jujuba*, HUANG HUA REN *Sida acuta*, JI DAN GUO *Passiflora edulis*, JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], MAO DONG QING *Ilex pubescens* (leaf), TAI WAN HU JIAO *Piper taiwanense* (stem), XING ZI *Prunus armeniaca*, YU XING CAO *Houttuynia cordata*, ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 660, 900, 4938, 5038.

**22616 (6S,9R)-Vomifoliol-9-O-β-apiofuranosyl-(1''→6')-O-β-glucopyranoside**

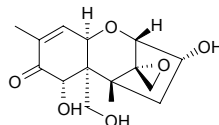
C<sub>24</sub>H<sub>38</sub>O<sub>12</sub> (518.56). Amorphous powder, [α]<sub>D</sub><sup>23</sup> = +37.2° (c = 1.2, MeOH); [α]<sub>D</sub><sup>25</sup> = +37.5° (c = 0.1, MeOH). Pharm: Antifungal inactive (*Candida albicans*, MIC > 200μg/mL, control Amphotericin B, MIC = 1~4μg/mL)<sup>[5021]</sup>; antibacterial inactive<sup>[5021]</sup>. Source: PI PA YE *Eriobotrya japonica* (stem and leaf), *Baseonema acuminatum* (leaf). Ref: 3061, 5021.

**22617 (6S,9R)-Vomifoliol-9-O-β-xylopyranosyl-(1''→6')-O-β-glucopyranoside**

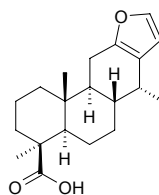
(6S,7E,9R)-Vomifoliol-9-O-β-D-xylopyranosyl-(1→6)-O-β-D-glucopyranoside C<sub>24</sub>H<sub>38</sub>O<sub>12</sub> (518.56). Amorphous powder, [α]<sub>D</sub><sup>23</sup> = +22.8° (c = 1.0, MeOH); white amorphous powder, [α]<sub>D</sub> = +48.8° (MeOH). Source: DUO LIE WEI LING CAI *Potentilla multifida* (whole herb), PI PA YE *Eriobotrya japonica* (stem and leaf). Ref: 3061, 4821.

**22618 Vomitoxin**

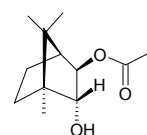
[51481-10-8] C<sub>15</sub>H<sub>20</sub>O<sub>6</sub> (296.32). Pharm: LD<sub>50</sub> (mus, ip) = 170mg/kg. Source: *Fusarium roseum*. Ref: 658.

**22619 (+)-Vouacapenic acid**

C<sub>20</sub>H<sub>28</sub>O<sub>3</sub> (316.44). Source: MEI GUO KE YA SHU *Vouacapoua Americana* (wood). Ref: 4315.

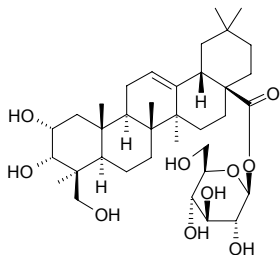
**22620 Vulgarole**

2-Acetoxy-3-bornanol C<sub>12</sub>H<sub>20</sub>O<sub>3</sub> (212.29). Source: BEI AI *Artemisia vulgaris*. Ref: 660.

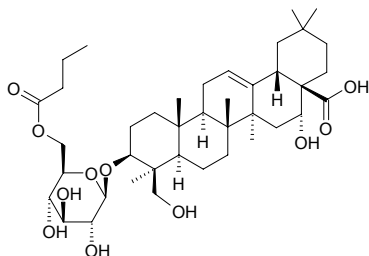


**22621 Vulgarsaponin**

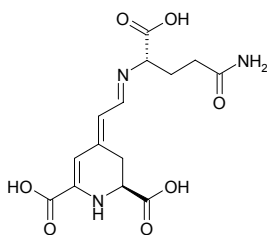
2 $\alpha$ ,3 $\alpha$ ,24-Trihydroxy-olean-12-ene-28-oic acid-28-*O*- $\beta$ -D-glucopyranosyl ester C<sub>36</sub>H<sub>58</sub>O<sub>10</sub> (650.86). White powder. Source: XIA KU CAO *Prunella vulgaris*. Ref: 838.

**22622 Vulgarsaponin B**

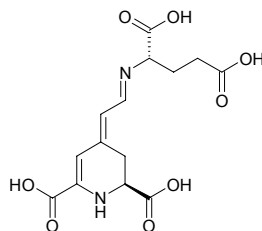
3 $\beta$ ,16 $\alpha$ ,24-Trihydroxyoleana-12-en-28-oic acid-3-*O*-(6'-butyryl)- $\beta$ -D-glucopyranoside C<sub>40</sub>H<sub>64</sub>O<sub>11</sub> (720.95). Colorless acicular crystals (MeOH), mp 262~264°C. Source: XIA KU CAO *Prunella vulgaris*. Ref: 684.

**22623 Vulgaxanthin I**

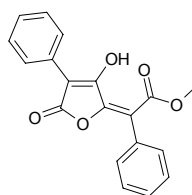
[904-62-1] C<sub>14</sub>H<sub>17</sub>N<sub>3</sub>O<sub>7</sub> (339.31). Pharm: Yellow pigment. Source: TIAN CAI *Beta vulgaris*, ZI MO LI GEN *Mirabilis jalapa*. Ref: 6.

**22624 Vulgaxanthin II**

[1047-87-6] C<sub>14</sub>H<sub>16</sub>N<sub>2</sub>O<sub>8</sub> (340.30). Source: MAO MA CHI XIAN *Portulaca pilosa*, TIAN CAI *Beta vulgaris*. Ref: 658, 660, 1521.

**22625 Vulpinic acid**

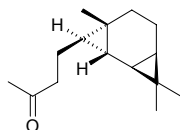
Vulpic acid [521-52-8] C<sub>19</sub>H<sub>14</sub>O<sub>5</sub> (322.32). mp 148~149°C. Source: JIN SI DAI *Alectoria vivens*. Ref: 6.



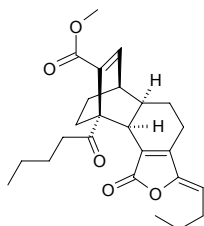
## W

**22626 Waitziacuminone**

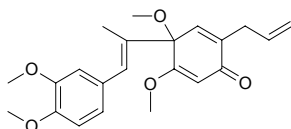
$C_{15}H_{24}O$  (220.36). Source: YUAN YE TAI *Jamesoniella colorata*. Ref: 3375.

**22627 Wallichilide**

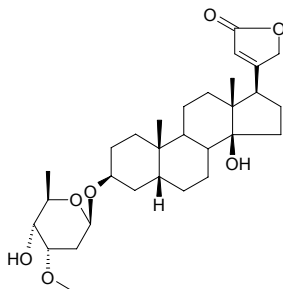
$C_{25}H_{32}O_5$  (412.53). Source: CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*]. Ref: 660.

**22628 Wallichinine**

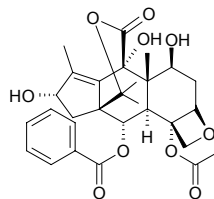
Wallichinin [125292-97-9]  $C_{22}H_{26}O_5$  (370.46). Colorless oil,  $[\alpha]_D^{30} = 0^\circ$  ( $c = 0.86$ , dichloromethane),  $[\alpha]_D^{24} = -21.0^\circ$  ( $c = 0.712$ ,  $CHCl_3$ ). Pharm: Platelet aggregation inhibitor (28  $\mu\text{mol/L}$ , induced by PAF, InRt = 100%); PAF receptor antagonist ( $[^3H]$  PAF receptor combination trial,  $IC_{50} = 1.4 \mu\text{mol/L}$ ). Source: MAO JU *Piper puberulum* (stem-leaf or whole herb: content = 0.35%)<sup>[5508]</sup>, SHAN JU *Piper hancei* (stem-leaf or whole herb: content = 0.60%)<sup>[5508]</sup>, SHI NAN TENG *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*] (stem-leaf or whole herb: content = 0.63%)<sup>[5508]</sup>, XIAN MAI JU *Piper bavinum* (stem-leaf or whole herb: content = 0.31%)<sup>[5508]</sup>, ZHANG YE HU JIAO *Piper polysyphorum*. Ref: 130, 660, 1165, 1578, 5508.

**22629 Wallichoside**

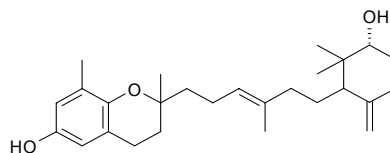
[31087-88-4]  $C_{30}H_{46}O_7$  (518.70). mp 193~196°C. Pharm: Cardiotonic (anesthetic cat). Source: QING MING HUA *Beaumontia grandiflora*. Ref: 6, 658.

**22630 Wallifoliol**

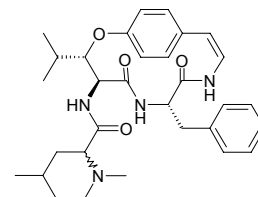
$C_{29}H_{34}O_{10}$  (542.59).  $[\alpha]_D = -108^\circ$  (MeOH). Pharm: Cytotoxic (*in vitro*, KB,  $IC_{50} = 0.56 \mu\text{g/mL}$ ; Hepa59T/VGH,  $IC_{50} = 0.1 \mu\text{g/mL}$ ; control Taxol, KB,  $IC_{50} = 0.001 \mu\text{g/mL}$ ; Hepa59T/VGH,  $IC_{50} = 0.001 \mu\text{g/mL}$ )<sup>[4666]</sup>; cytotoxic (*in vitro*, 30  $\mu\text{g/mL}$ : A498, InRt = 27.9%; NCI-H226, InRt = 29.1%; A549, InRt = 16.7%; PC3, InRt = 6.4%; control Taxol, 30  $\mu\text{g/mL}$ : A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)<sup>[4800]</sup>. Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)<sup>[4800]</sup>; yield = 0.0011% dw<sup>[4666]</sup>, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*<sup>[662]</sup>. Ref: 662, 4666, 4800.

**22631 Walsurol**

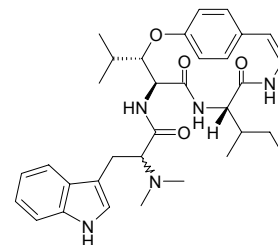
$C_{27}H_{40}O_3$  (412.62). Viscous oil,  $[\alpha]_D^{28} = -15.8^\circ$  ( $c = 0.36$ ,  $CHCl_3$ ). Source: YUN NAN GE SHE SHU *Walsura yunnanensis*. Ref: 2144.

**22632 Waltherine A**

$C_{31}H_{42}N_4O_4$  (534.70). Needles ( $CHCl_3$ - $Et_2O$ ), mp 234~235°C,  $[\alpha]_D^{20} = -229.8^\circ$  ( $c = 0.24$ , MeOH) Source: *Waltheria douradinha*. Ref: 2296.

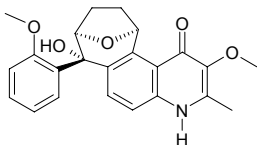
**22633 Waltherine B**

$C_{33}H_{43}N_5O_4$  (573.74). Needles ( $CHCl_3$ -MeOH), mp 243~243°C,  $[\alpha]_D^{20} = -201.8^\circ$  ( $c = 0.21$ , MeOH),  $[\alpha]_D^{20} = -356.7^\circ$  ( $c = 0.5$ ,  $CHCl_3$ ). Source: *Waltheria douradinha*. Ref: 2296.

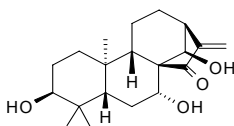


**22634 Waltherione A**

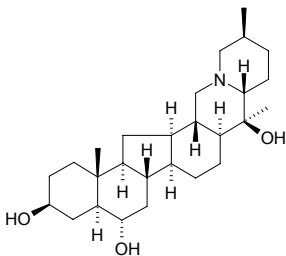
9-Hydroxy-3-methoxy-2-methyl-9-(2-methoxyphenyl)-14-oxa-biciclo [3.2.1]-octa-[f]quinolinone C<sub>23</sub>H<sub>23</sub>NO<sub>5</sub> (393.44). White solid (CHCl<sub>3</sub>-MeOH), mp 206.0~207.5°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -25.5° (c = 0.04, CHCl<sub>3</sub>). **Pharm:** Antibacterial inactive (*Staphylococcus aureus*, *Streptococcus epidermidis*, *Micrococcus luteus*, *Klebsiella pneumoniae*, *Salmonella setubal* and *Escherichia coli*). **Source:** *Waltheria douradinha* (root cortex). **Ref:** 5284.

**22635 Wanghzaozin A**

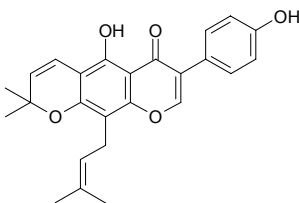
C<sub>20</sub>H<sub>30</sub>O<sub>4</sub> (334.46). mp 225~227°C, [ $\alpha$ ]<sub>D</sub> 10 = -77° (c = 0.35, CHCl<sub>3</sub>). **Source:** XIANG CHA CAI *Isodon amethystoides*. **Ref:** 4067.

**22636 Wanpeinine A**

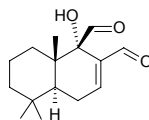
5 $\alpha$ ,14 $\alpha$ ,22 $\beta$ -Cevanine-3 $\beta$ ,6 $\alpha$ ,20 $\beta$ -triol. C<sub>27</sub>H<sub>45</sub>NO<sub>3</sub> (431.66). White clustered crystals, mp 281~283°C (dec), [ $\alpha$ ]<sub>D</sub> = -8.71°. **Source:** AN HUI BEI MU *Fritillaria anhuiensis*. **Ref:** 65.

**22637 Warangalone**

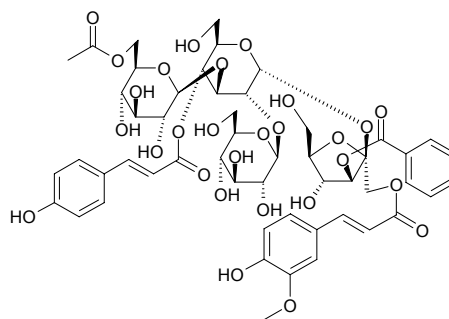
Scandenone C<sub>25</sub>H<sub>24</sub>O<sub>5</sub> (404.47). **Source:** GAO HUI MAO DOU *Tephrosia elata*, PAN YUAN YU TENG *Derris scandens*, SAI NEI JIA ER CI TONG *Erythrina senegalensis*, SAN XIAU YE SHAN DOU GEN *Euchresta japonica*, *Erythrina vogelii*. **Ref:** 1521, 4421.

**22638 Warburganal**

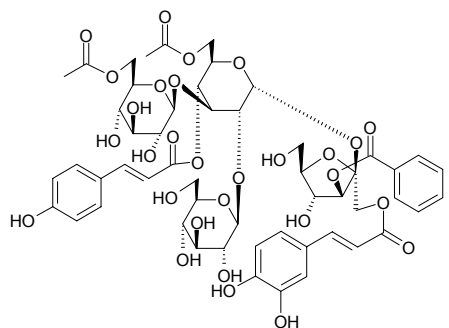
[62994-47-2] C<sub>15</sub>H<sub>22</sub>O<sub>3</sub> (250.34). **Pharm:** Antifungal; inhibits microzymes; insect antifeedant (*Spodoptera littoralis* and *S. exempta*); plant growth regulator. **Source:** SHUI LIAO *Polygonum hydropiper*, *Warburgia salutaris*. **Ref:** 658, 660.

**22639 Watterose A**

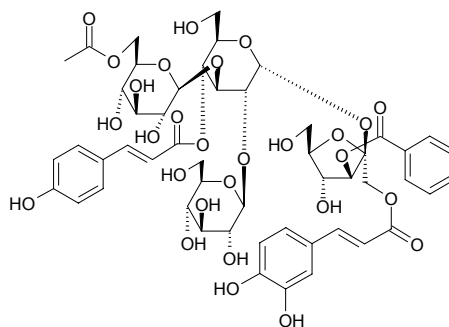
C<sub>52</sub>H<sub>62</sub>O<sub>28</sub> (1135.06). [ $\alpha$ ]<sub>D</sub> = -20.5°. **Source:** CHANG MAO ZI YUAN ZHI *Polygala wattersii*. **Ref:** 2184.

**22640 Watterose B**

C<sub>53</sub>H<sub>62</sub>O<sub>29</sub> (1163.27). [ $\alpha$ ]<sub>D</sub> = -5.0°. **Source:** CHANG MAO ZI YUAN ZHI *Polygala wattersii*. **Ref:** 2184.

**22641 Watterose C**

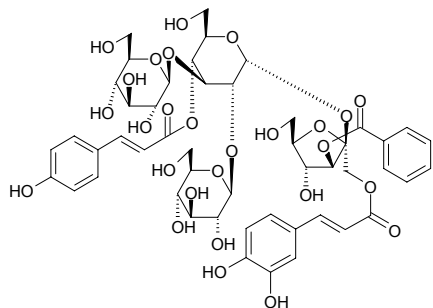
C<sub>51</sub>H<sub>60</sub>O<sub>28</sub> (1121.03). [ $\alpha$ ]<sub>D</sub> = -6.6°. **Source:** CHANG MAO ZI YUAN ZHI *Polygala wattersii*. **Ref:** 2184.



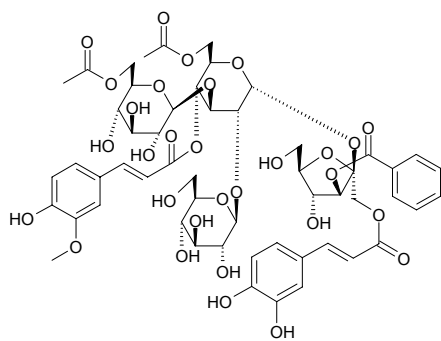


**22642 Watterose D**

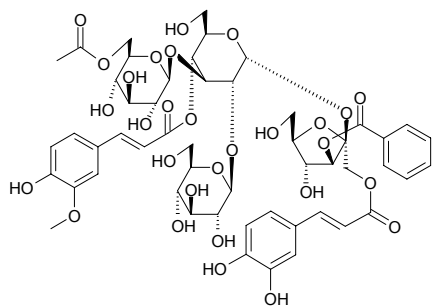
$C_{49}H_{58}O_{27}$  (1078.99).  $[\alpha]_D = +17.5^\circ$ . Source: CHANG MAO ZI YUAN ZHI  
*Polygala wattersii*. Ref: 2184.

**22643 Watterose E**

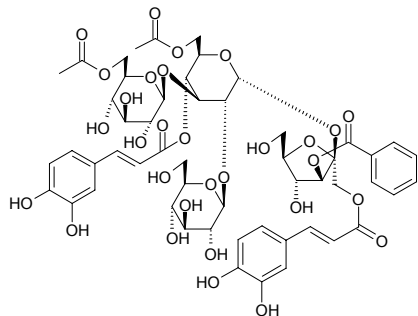
$C_{54}H_{64}O_{30}$  (1193.09).  $[\alpha]_D = -9.1^\circ$ . Source: CHANG MAO ZI YUAN ZHI  
*Polygala wattersii*. Ref: 2184.

**22644 Watterose F**

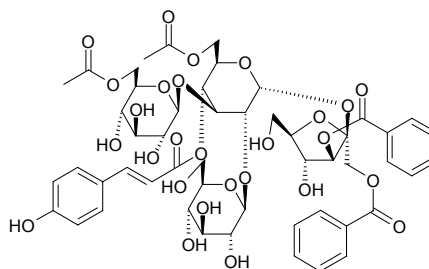
$C_{52}H_{62}O_{29}$  (1151.06).  $[\alpha]_D = -8.0^\circ$ . Source: CHANG MAO ZI YUAN ZHI  
*Polygala wattersii*. Ref: 2184.

**22645 Watterose G**

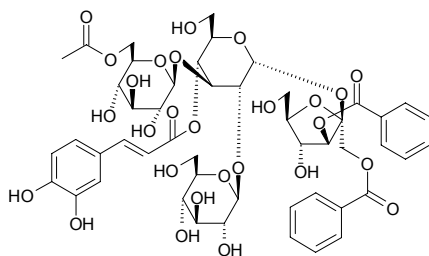
$C_{53}H_{62}O_{30}$  (1179.07).  $[\alpha]_D = -12.1^\circ$ . Source: CHANG MAO ZI YUAN ZHI  
*Polygala wattersii*. Ref: 2184.

**22646 Watterose H**

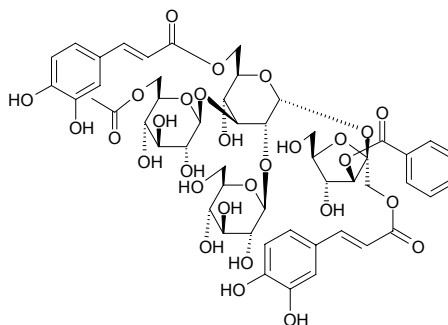
$C_{51}H_{60}O_{27}$  (1105.03).  $[\alpha]_D = -41.2^\circ$ . Source: CHANG MAO ZI YUAN ZHI  
*Polygala wattersii*. Ref: 2184.

**22647 Watterose I**

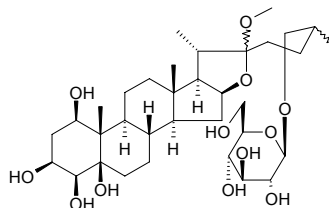
$C_{49}H_{58}O_{27}$  (1078.99).  $[\alpha]_D = +46.8^\circ$ . Source: CHANG MAO ZI YUAN ZHI  
*Polygala wattersii*. Ref: 2184.

**22648 Watterose J**

$C_{51}H_{60}O_{29}$  (1137.03).  $[\alpha]_D = -39.0^\circ$ . Source: CHANG MAO ZI YUAN ZHI  
*Polygala wattersii*. Ref: 2184.

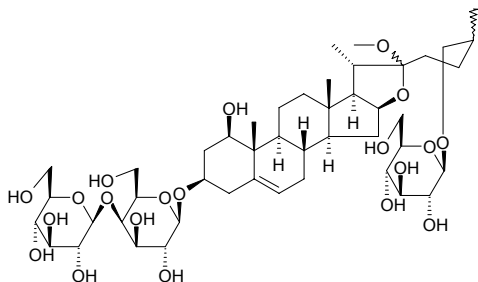
**22649 Wattoside B**

22-O-Methyl-25(*R,S*)-furost-1 $\beta$ ,3 $\beta$ ,4 $\beta$ ,5 $\beta$ ,22 $\zeta$ ,26 $\beta$ -hexol-26-*O*- $\beta$ -*D*-glucopyranoside  $C_{34}H_{58}O_{12}$  (658.83). White powder,  $[\alpha]_D^{18} = -18.7^\circ$  ( $c = 0.68$ , MeOH).  
Source: WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*]. Ref: 2141.

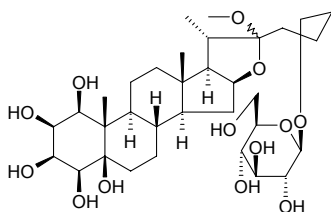


**22650 Wattoside C**

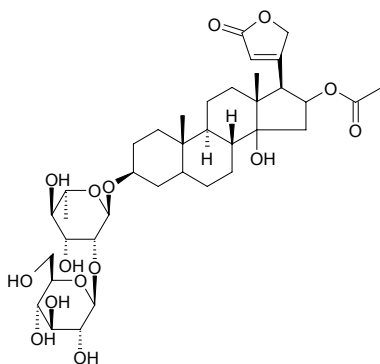
22-*O*-Methyl-26-*O*- $\beta$ -*D*-glycopyranosyl-25(*S*)-furost-5-en-1 $\beta$ ,3 $\beta$ ,22 $\zeta$ ,26 $\beta$ -tetrol-3-*O*-[*O*- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 4)]- $\beta$ -*D*-galactopyranoside C<sub>46</sub>H<sub>76</sub>O<sub>20</sub> (949.11). White powder,  $[\alpha]_D^{20} = -44.30^\circ$  ( $c = 0.82$ , MeOH). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*], YU ZHU *Polygonatum odoratum* [Syn. *Polygonatum officinale*]. **Ref:** 660, 2141.

**22651 Wattoside D**

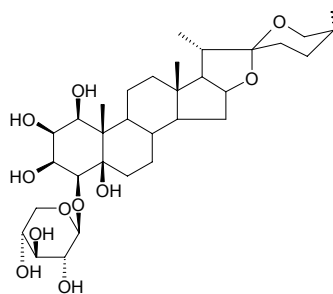
22-*O*-Methyl-25(*S*)-furost-1 $\beta$ ,2 $\beta$ ,3 $\beta$ ,4 $\beta$ ,5 $\beta$ ,22 $\zeta$ ,26 $\beta$ -heptol-26-*O*- $\beta$ -*D*-glucopyranoside C<sub>33</sub>H<sub>56</sub>O<sub>13</sub> (660.81). White powder,  $[\alpha]_D^{20} = -45.70^\circ$  ( $c = 0.26$ , MeOH). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*]. **Ref:** 2141.

**22652 Wattoside E**

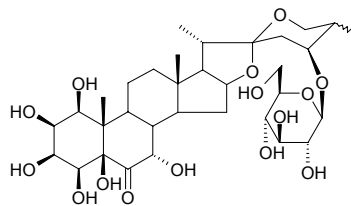
Oleandrigenin-3-*O*-[*O*- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 2)]-*alpha*-*L*-rhamnopyranoside C<sub>37</sub>H<sub>56</sub>O<sub>15</sub> (740.85). White powder,  $[\alpha]_D^{26} = -39.9^\circ$  ( $c = 0.57$ , MeOH). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*]. **Ref:** 2141.

**22653 Wattoside G**

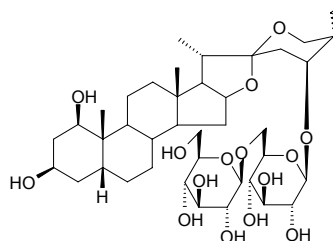
(2*R*)-1 $\beta$ ,2 $\beta$ ,3 $\beta$ ,5 $\beta$ -Tetrahydroxyspirostan-4 $\beta$ -yl-*O*- $\beta$ -*D*-xylopyranoside C<sub>32</sub>H<sub>52</sub>O<sub>11</sub> (612.76). Amorphous powder (MeOH), mp 214~216°C,  $[\alpha]_D^{20} = -65.5^\circ$  ( $c = 0.03$ , MeOH). **Pharm:** Cytotoxic (MTT assay, K562, IC<sub>50</sub> = 35.67 $\mu$ mol/L, positive control *cis*-Dichlorodiamine platinum, IC<sub>50</sub> = 69.33 $\mu$ mol/L). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*] (fresh rhizome). **Ref:** 4324.

**22654 Wattoside H**

(24*S*,25*S*)-24-[( $\beta$ -*D*-Glucopyranosyl)oxy]-1 $\beta$ ,2 $\beta$ ,3 $\beta$ ,4 $\beta$ ,5 $\beta$ ,7 $\beta$ -hexahydroxyspirostan-6-one C<sub>33</sub>H<sub>52</sub>O<sub>15</sub> (688.77). Amorphous powder (MeOH), mp 200~203°C,  $[\alpha]_D^{20} = -78.0^\circ$  ( $c = 0.014$ , MeOH). **Pharm:** Cytotoxic (MTT assay, K562, IC<sub>50</sub> = 76.16 $\mu$ mol/L, positive control *cis*-Dichlorodiamine platinum, IC<sub>50</sub> = 69.33 $\mu$ mol/L). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*] (fresh rhizome). **Ref:** 4324.

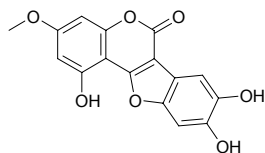
**22655 Wattoside I**

(24*S*,25*S*)-1 $\beta$ ,3 $\beta$ -Dihydroxy-5 $\beta$ -spirostan-24-yl-*O*- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranoside C<sub>39</sub>H<sub>64</sub>O<sub>15</sub> (772.94). Amorphous powder (MeOH), mp 205~207°C,  $[\alpha]_D^{20} = -76.2^\circ$  ( $c = 0.027$ , MeOH). **Pharm:** Cytotoxic (MTT assay, K562, IC<sub>50</sub> = 76.96 $\mu$ mol/L, positive control *cis*-Dichlorodiamine platinum, IC<sub>50</sub> = 69.33 $\mu$ mol/L). **Source:** WAN RUI KAI KOU JIAN *Tupistra wattii* [Syn. *Campylandra wattii*] (fresh rhizome). **Ref:** 4324.

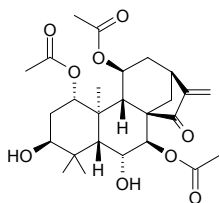


**22656 Wedelolactone**

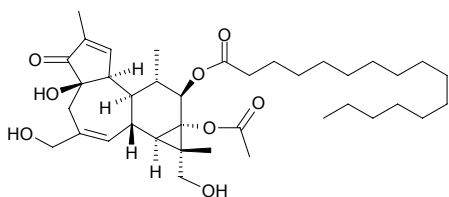
[524-12-9] C<sub>16</sub>H<sub>10</sub>O<sub>7</sub> (314.26). mp 327~330°C (dec). **Pharm:** Antihepatotoxin. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 6, 658.

**22657 Weisiensin A**

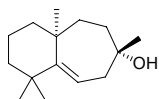
C<sub>26</sub>H<sub>36</sub>O<sub>9</sub> (492.57). mp 298~300°C. **Pharm:** Cytotoxic (*in vitro*, K562, IC<sub>50</sub> = 3.3 μg/mL; control *cis*-Platin, IC<sub>50</sub> = 1.9 μg/mL)<sup>[4640]</sup>. **Source:** WEI XI XIANG CHA CAI *Isodon weisiensis*, XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.0018%dw)<sup>[4640]</sup>. **Ref:** 4067, 4640.

**22658 Welensalifactor F1**

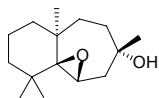
C<sub>38</sub>H<sub>60</sub>O<sub>8</sub> (644.90). **Pharm:** Carcinogen assistant. **Source:** DAN HUANG BA DOU *Croton flavens*. **Ref:** 658.

**22659 Widdrol**

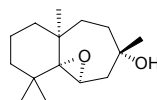
[6982-80-4] C<sub>15</sub>H<sub>26</sub>O (222.37). mp (+) 98°C, (±) 86~87°C. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*], REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. **Ref:** 2, 6.

**22660 cis-Widdrol α-epoxide**

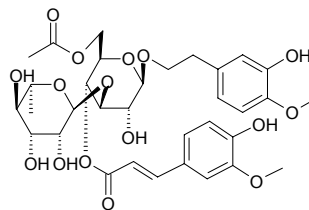
C<sub>15</sub>H<sub>26</sub>O<sub>2</sub> (238.37). mp (*cis*) 154°C. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 6.

**22661 trans-Widdrol α-epoxide**

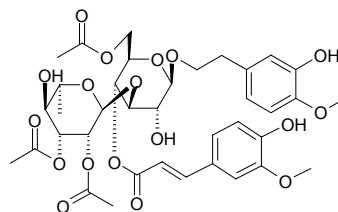
C<sub>15</sub>H<sub>26</sub>O<sub>2</sub> (238.37). mp (*trans*) 119°C. **Source:** CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]. **Ref:** 6.

**22662 Wiedemannioside A**

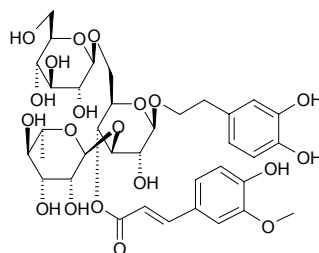
6'-*O*-Acetylmartynoside C<sub>33</sub>H<sub>42</sub>O<sub>16</sub> (694.69). Colorless amorphous powder, [α]<sub>D</sub><sup>20</sup> = -50° (c = 0.1, MeOH). **Source:** ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. **Ref:** 5449.

**22663 Wiedemannioside B**

C<sub>37</sub>H<sub>46</sub>O<sub>18</sub> (778.77). Colorless amorphous powder, [α]<sub>D</sub><sup>20</sup> = -120° (c = 0.1, MeOH). **Source:** ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. **Ref:** 5449.

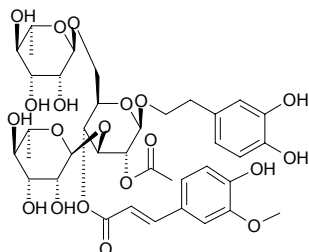
**22664 Wiedemannioside C**

Jionoside A<sub>1</sub> [120444-60-2] C<sub>36</sub>H<sub>48</sub>O<sub>20</sub> (800.77). Colorless amorphous powder, [α]<sub>D</sub><sup>20</sup> = -80° (c = 0.1, MeOH); amorphous powder, [α]<sub>D</sub><sup>24</sup> = -59.8° (c = 0.38, MeOH). **Pharm:** Immunosuppressant (mus, 100mg/kg, orl, inhibits formation of hemolytic patch formative cell HPFC in spleen, InRt = 23.0%). **Source:** GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. **Ref:** 2, 1521, 1785, 5449.

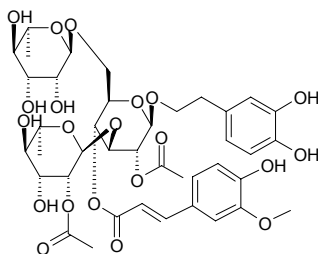


**22665 Wiedemannioside D**

$C_{38}H_{50}O_{20}$  (826.81). Colorless amorphous powder,  $[\alpha]_D^{20} = -72^\circ$  ( $c = 0.1$ , MeOH). Source: ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. Ref: 5449.

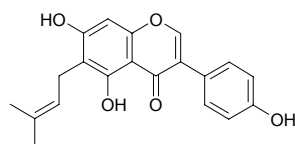
**22666 Wiedemannioside E**

$C_{40}H_{52}O_{21}$  (868.85). Colorless amorphous powder,  $[\alpha]_D^{20} = -59^\circ$  ( $c = 0.1$ , MeOH). Source: ZI HUA GUAN MAO RUI HUA *Verbascum wiedemannianum*. Ref: 5449.

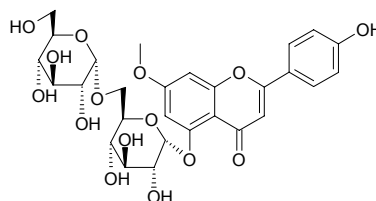
**22667 Wightone**

5,7,4'-Trihydroxy-6-prenyl-isoflavone [51225-30-0]  $C_{20}H_{18}O_5$  (338.36). Pharm: Cytotoxic (HSC-2 cells,  $CC_{50} = 0.12$ mmol/L; HGF,  $CC_{50} = 0.25$ mmol/L)<sup>[3025]</sup>; cytotoxic (KB,  $EC_{50} = 0.78$ μg/mL)<sup>[5220]</sup>; hepatoprotective (mus primary cultured hepatocytes, antihepatotoxin induced by *D*-galactosamine (GalN), 100μmol/L, InRt =  $(-17.8 \pm 0.5)\%$ , counteractive, control Silybin, 100μmol/L, InRt =  $(77.0 \pm 5.5)\%$ <sup>[4095]</sup>; antibacterial (*Escherichia coli*, MIA = 0.05μg, control Chloramphenicol, MIA = 0.001μg; *Bacillus subtilis*, MIA = 0.01μg, Chloramphenicol, MIA = 0.001μg; *Staphylococcus aureus*, MIA = 0.01μg, Chloramphenicol, MIA = 0.001μg)<sup>[3785]</sup>; antifungal (*Candida mycoderma*, MIA = 0.05μg, Miconazole, MIA = 0.0001μg)<sup>[3785]</sup>; antifungal (*Aspergillus fumigatus* and *Aspergillus nidulan*, MIC = 2~4μg/mL; *Cryptococcus neoformans*, MIC = 4μg/mL)<sup>[4713]</sup>; antioxidant (DPPH scavenger, TLC detection limit = 1.0μg,  $IC_{50} = 2100$ μg/mL; control Quercetin, TLC detection limit < 0.05μg,  $IC_{50} = 7$ μg/mL; Gallic acid, TLC detection limit < 0.05μg,  $IC_{50} = 4$ μg/mL; Ascorbic acid, TLC detection limit < 0.10μg,  $IC_{50} = 18$ μg/mL)<sup>[3785]</sup>; antibacterial (*Enterococcus faecalis* JCM7783 (VSE) (= ATCC19434), MIC = 6.25μg/mL, control Linezolid, MIC = 1.56μg/mL; *Enterococcus faecalis* JU1856(VRE, VanA), MIC = 6.25μg/mL, Linezolid, MIC = 0.78μg/mL; *Enterococcus faecalis* JU1782(VRE, VanB), MIC = 6.25μg/mL, Linezolid, MIC = 0.78μg/mL; *Enterococcus faecium* JCM5804 (VSE) (= ATCC 29212), MIC = 6.25μg/mL, Linezolid, MIC = 1.56μg/mL; *Enterococcus faecium* JU1858 (VRE, VanA), MIC = 6.25μg/mL, Linezolid,

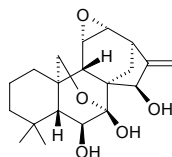
MIC = 0.78μg/mL; *Enterococcus faecium* JU1777 (VRE, VanB), MIC = 6.25μg/mL, Linezolid, MIC = 1.56μg/mL; *Enterococcus gallinarum* JU2786 (VRE, VanC), MIC = 6.25μg/mL, Linezolid, MIC = 0.78μg/mL; *Staphylococcus aureus* JCM2874 (MSSA) (=ATCC29213), MIC = 6.25μg/mL, Linezolid, MIC = 1.56μg/mL; *Staphylococcus aureus* (MRSA, 10 strains), MIC = 6.25μg/mL, Linezolid, MIC = 0.78μg/mL; *Staphylococcus aureus* (MRSA, 8 strains), mean  $MIC_{80} = 6.25$ μg/mL, Linezolid, mean  $MIC_{80} = 0.78$ μg/mL)<sup>[5007]</sup>. Source: BAI YU SHAN DOU *Lupinus albus*, CI TONG *Erythrina variegata* [Syn. *Erythrina indica*] (stem cortex)<sup>[5220]</sup>, GOU JI *Cudrania cochinchinensis* (root: yield = 0.0131%dw<sup>[3025]</sup>; yield = 0.000034%dw<sup>[4713]</sup>), GUANG GUO GAN CAO *Glycyrrhiza glabra* (leaf)<sup>[4685]</sup>, *Lupinus* sp., GUANG BU DING GONG TENG *Erycibe expansa*, *Bolusanthus speciosus* (root wood)<sup>[3785]</sup>. Ref: 658, 3025, 3785, 4095, 4685, 4713, 5007, 5220.

**22668 Wikstroemin**

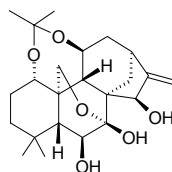
$C_{28}H_{32}O_{15}$  (608.56). mp 200~202°C, 270~272°C. Pharm: Diuretic (anesthetic dog, 2~4mg/kg iv). Source: LIAO GE WANG GEN *Wikstroemia indica*. Ref: 6, 658.

**22669 Wikstroemioidin A**

$C_{20}H_{28}O_5$  (348.44). mp 196~197°C,  $[\alpha]_D^{25} = -204.3^\circ$  ( $c = 0.23$ , pyridine). Source: YAO HUA XIANG CHA CAI *Isodon wikstroemioides*. Ref: 4067.

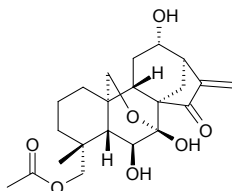
**22670 Wikstroemioidin B**

$C_{23}H_{34}O_6$  (406.52). mp 110~112°C,  $[\alpha]_D^{25} = -17.6^\circ$  ( $c = 0.23$ , pyridine). Source: YAO HUA XIANG CHA CAI *Isodon wikstroemioides*. Ref: 4067.

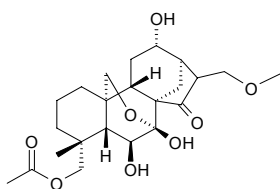


**22671 Wikstroemioidin C**

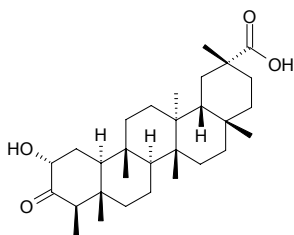
$C_{22}H_{30}O_7$  (406.48).  $[\alpha]_D^{25} = -71.4^\circ$  ( $c = 0.17$ , pyridine). Source: YAO HUA XIANG CHA CAI *Isodon wikstroemioides*. Ref: 4067.

**22672 Wikstroemioidin D**

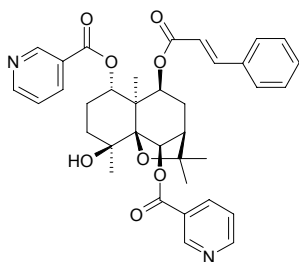
$C_{23}H_{34}O_8$  (438.52).  $[\alpha]_D^{25} = -57.1^\circ$  ( $c = 0.14$ , pyridine). Source: YAO HUA XIANG CHA CAI *Isodon wikstroemioides*. Ref: 4067.

**22673 Wilfolie acid C**

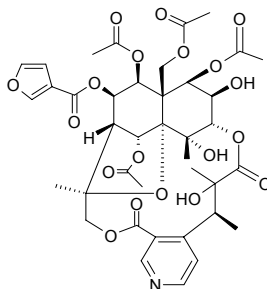
$C_{30}H_{48}O_4$  (472.71). Pharm: DPPH scavenger inactive (for  $40\mu\text{mol/L}$  DPPH radical,  $SC_{50} > 40\mu\text{mol/L}$ ). Source: SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem). Ref: 4378.

**22674 Wilfordicine**

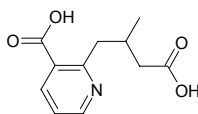
$C_{36}H_{38}N_2O_8$  (626.71). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 660.

**22675 Wilfordconine**

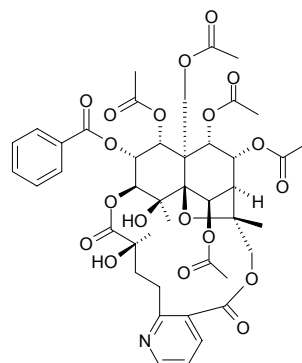
$C_{39}H_{45}NO_{19}$  (831.79). Colorless columnar crystals, mp  $192\text{--}193^\circ\text{C}$ . Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 868.

**22676 Wilfordic acid**

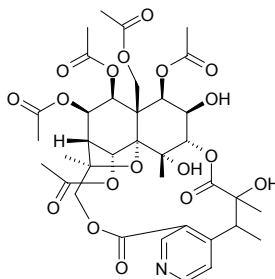
$C_{11}H_{13}NO_4$  (223.23). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**22677 Wilfordine**

[37329-51-3]  $C_{43}H_{49}NO_{19}$  (883.87). mp  $175\text{--}176^\circ\text{C}$ . Pharm: Insecticidal. Source: LEI GONG TENG *Tripterygium wilfordii*, GUI JIAN YU *Euonymus alatus*. Ref: 2, 655, 658.

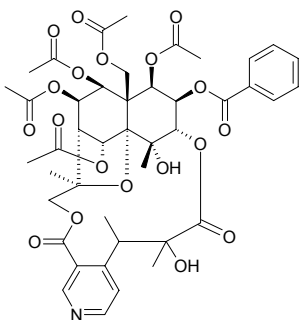
**22678 Wilfordlongine**

$C_{36}H_{45}NO_{18}$  (779.76). Colorless columnar crystals, mp  $179\text{--}180^\circ\text{C}$ . Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2221.

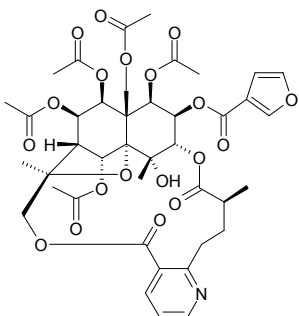


**22679 Wilfordside**

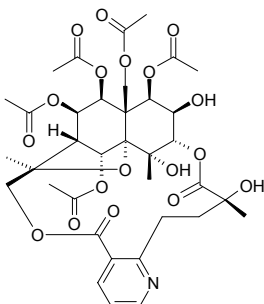
[171090-83-8]  $C_{43}H_{49}NO_{19}$  (883.87). Colorless columnar crystals, mp 176~178°C. **Pharm:** Mmunosuppressant (mus, ip, 50mg/kg, maximum hemolytic dilution ratio = 1:512; ip, 100mg/kg, maximum hemolytic dilution ratio = 1:256; 10mg/kg cytoxin control, maximum hemolytic dilution ratio = 1:256). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 330.

**22680 Wilforgine**

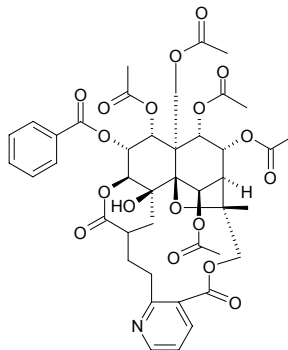
[37239-47-7]  $C_{41}H_{47}NO_{19}$  (857.83). **Source:** KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 655, 660.

**22681 Wilfordine**

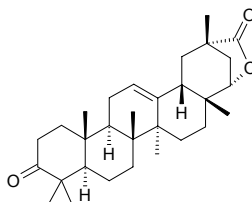
$C_{36}H_{45}NO_{18}$  (779.76). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 660.

**22682 Wilforine**

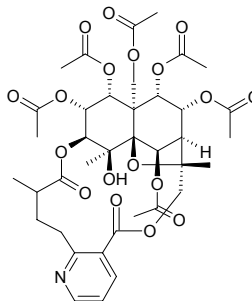
[11088-09-8]  $C_{43}H_{49}NO_{18}$  (867.87). **Source:** LEI GONG TENG *Tripterygium wilfordii* (root: mean content of 2 origins = 0.0581%<sup>[5508]</sup>). **Ref:** 2, 655, 5508.

**22683 Wilforide B**

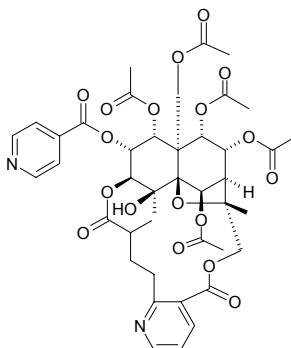
[84104-70-1]  $C_{30}H_{44}O_3$  (452.68). **Source:** BAO XING WEI MAO *Euonymus mupinensis*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2, 278.

**22684 Wilformine**

[41758-69-4]  $C_{38}H_{47}NO_{18}$  (805.79). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2, 1521.

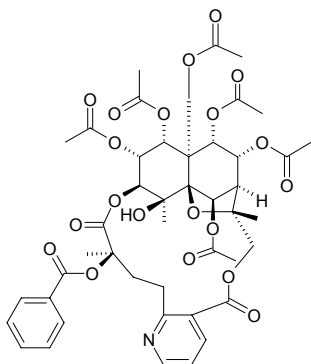
**22685 Wilforine**

[112899-84-0]  $C_{42}H_{48}N_2O_{18}$  (868.85). **Pharm:** immunosuppressant (mus, 80mg/kg, inhibits formation of hemolysin). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2, 1614.

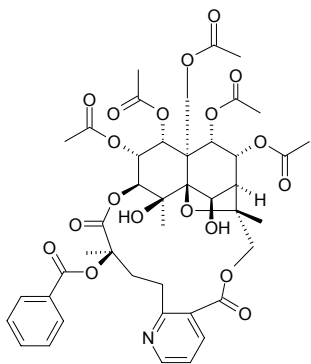


**22686 Wilfornine A**

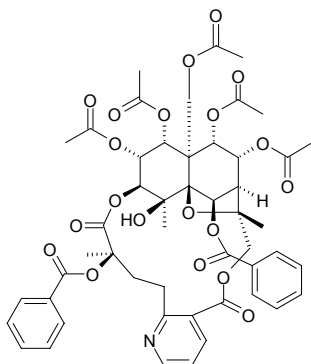
$C_{45}H_{51}NO_{20}$  (925.90). **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits production of pro-inflammatory cytokines, including TNF- $\alpha$ , IL-1 $\beta$ , IL-4, IL-2 and IFN- $\gamma$  in hmn peripheral mononuclear cells, 10 $\mu$ g/mL). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 4416.

**22687 Wilfornine B**

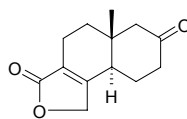
$C_{43}H_{49}NO_{19}$  (883.87). **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits production of pro-inflammatory cytokines, including TNF- $\alpha$ , IL-1 $\beta$ , IL-4, IL-2 and IFN- $\gamma$  in hmn peripheral mononuclear cells, 10 $\mu$ g/mL). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 4416.

**22688 Wilfornine C**

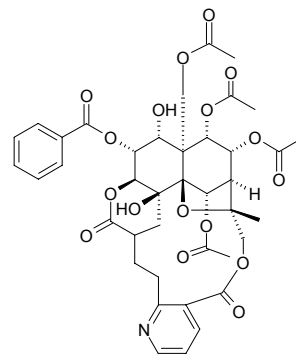
$C_{50}H_{53}NO_{20}$  (987.97). **Pharm:** Anti-inflammatory (modulator of cytokine network: inhibits production of pro-inflammatory cytokines, including TNF- $\alpha$ , IL-1 $\beta$ , IL-4, IL-2 and IFN- $\gamma$  in hmn peripheral mononuclear cells, 10 $\mu$ g/mL). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 4416.

**22689 Wilforonide**

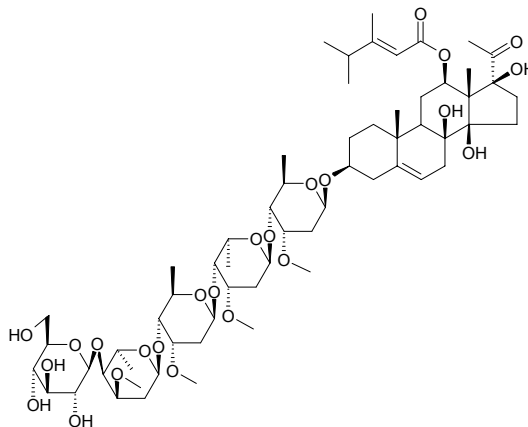
$C_{13}H_{16}O_3$  (220.27). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2.

**22690 Wilforzine**

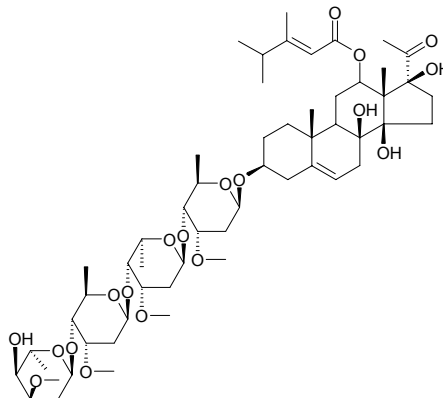
[37239-46-6]  $C_{41}H_{47}NO_{17}$  (825.83). **Source:** LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 2, 655.

**22691 WilfosideC<sub>1</sub>G**

$C_{62}H_{100}O_{24}$  (1229.47). **Source:** ER YE NIU PI XIAO *Cynanchum auriculatum*, GE SHAN XIAO *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*]. **Ref:** 660.

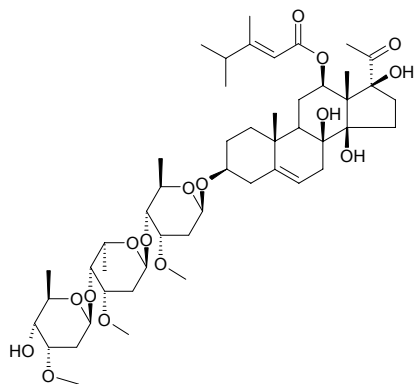
**22692 WilfosideC<sub>1</sub>N**

$C_{56}H_{90}O_{19}$  (1067.33). **Source:** ER YE NIU PI XIAO *Cynanchum auriculatum*, GE SHAN XIAO *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*]. **Ref:** 660.

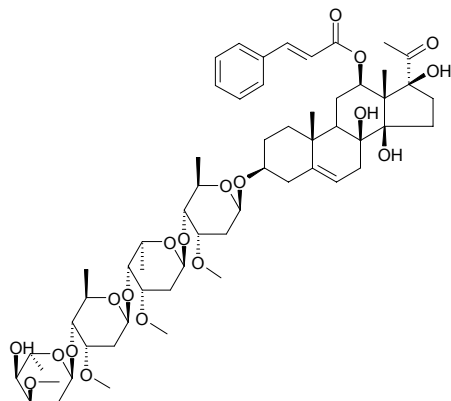


**22693 WilfosideC<sub>3</sub>N**

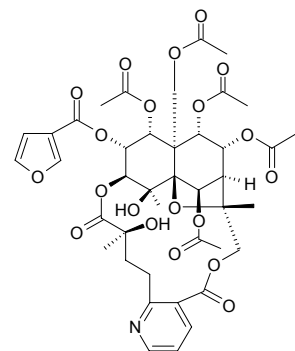
C<sub>49</sub>H<sub>78</sub>O<sub>16</sub> (923.16). Source: ER YE NIU PI XIAO *Cynanchum auriculatum*, GE SHAN XIAO *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*]. Ref: 660.

**22694 WilfosideK<sub>1</sub>N**

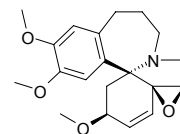
C<sub>58</sub>H<sub>86</sub>O<sub>19</sub> (1087.32). Source: ER YE NIU PI XIAO *Cynanchum auriculatum*, GE SHAN XIAO *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*]. Ref: 660.

**22695 Wilfotrine**

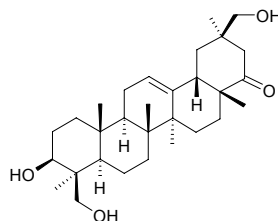
[37239-48-8] C<sub>41</sub>H<sub>47</sub>NO<sub>20</sub> (873.83). Colorless lamellar crystals, mp 235–237°C (acetone–methanol). Pharm: Immunosuppressant (mus, 80mg/kg ip, inhibits formation of hemolysin, mus, 160mg/kg ip, inhibits cellular immunity, based on a GVHR index). Source: KUN MING SHAN HAI TANG *Tripterygium hypoglaucom*, LEI GONG TENG *Tripterygium wilfordii*. Ref: 2, 655, 900.

**22696 Wilsonine**

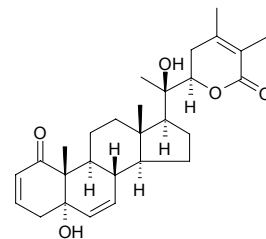
[39024-12-9] C<sub>20</sub>H<sub>25</sub>NO<sub>4</sub> (343.43). Crystals (Et<sub>2</sub>O), mp 150–151°C, [α]<sub>D</sub> = –51.4° (c = 0.55, CHCl<sub>3</sub>), [α]<sub>D</sub> = –36° (c = 0.55, EtOH). Source: RI BEN CU FEI *Cephalotaxus harringtonia* (seed), SAN JIAN SHAN *Cephalotaxus fortunei*, SAN JIAN SHAN *Cephalotaxus fortunei* (drupe: yield = 0.024%)<sup>[4675]</sup>, TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig and leaf), ZHONG GUO CU FEI ZHI YE *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*]. Ref: 2, 660, 1521, 4675.

**22697 Wistariasapogenol A**

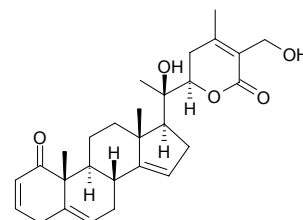
[124657-60-9] C<sub>30</sub>H<sub>48</sub>O<sub>4</sub> (472.71). Colorless prismatic crystals, mp 265–267°C, [α]<sub>D</sub><sup>27</sup> = +53.9° (c = 0.17, methanol). Pharm: Inhibits promoter of cancer, inhibits activity of EBV induced by TPA. Source: SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. Ref: 1003, 1004, 1014.

**22698 Withacoagin**

C<sub>28</sub>H<sub>38</sub>O<sub>5</sub> (454.61). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

**22699 Withacoagulin**

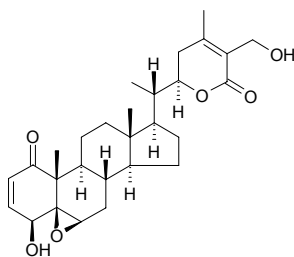
20β,27-Dihydroxy-1-oxo-(22R)-witha-2,5,24-tetraenolide C<sub>28</sub>H<sub>36</sub>O<sub>5</sub> (452.60). [α]<sub>D</sub><sup>25</sup> = +37° (c = 0.081, CHCl<sub>3</sub>). Source: NING GU SHUI QIE *Withania coagulans*. Ref: 3378.



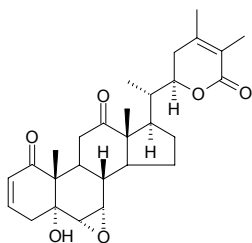


**22700 Withaferin A**

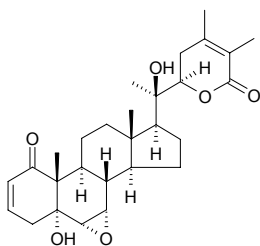
[5119-48-2]  $C_{28}H_{38}O_6$  (470.61). mp 252–253°C. **Pharm:** Antibacterial; antineoplastic ( $S_{180}$ , EC = 40  $\mu\text{g}/\text{mL}$ , mus, melanoma, EAC and E0771 mammary cancer); antifungal; anti-inflammatory (mus, swollen foot model,  $ED_{50} = 12.0\text{mg}/\text{kg}$ ); AChE inhibitor ( $IC_{50} = (84.0 \pm 1.5)\mu\text{mol}/\text{L}$ , control Galanthamine  $IC_{50} = (0.50 \pm 0.001)\mu\text{mol}/\text{L}$ , Eserine  $IC_{50} = (0.04 \pm 0.0001)\mu\text{mol}/\text{L}$ )<sup>[2563]</sup>; butyrylcholinesterase (BChE) inhibitor ( $IC_{50} = (125 \pm 3.2)\mu\text{mol}/\text{L}$ , control Galanthamine  $IC_{50} = (8.2 \pm 0.01)\mu\text{mol}/\text{L}$ , Eserine  $IC_{50} = (0.85 \pm 0.0001)\mu\text{mol}/\text{L}$ )<sup>[2563]</sup>. **Source:** CUI MIAN SHUI QIE *Withania somnifera*, CUI MIAN SHUI QIE *Withania somnifera* (root), CUI MIAN SHUI QIE *Withania somnifera* (leaf), SHUI QIE *Solanum torvum*. **Ref:** 5, 2563, 4198, 5329.

**22701 Withanicandrin**

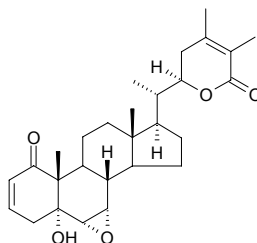
[39262-28-7]  $C_{28}H_{36}O_6$  (468.60). mp 267–269°C. **Source:** JIA SUAN JIANG *Nicandra physaloides*. **Ref:** 6.

**22702 Withanolide A**

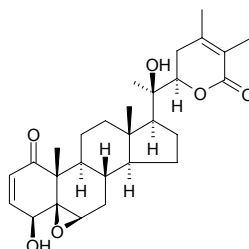
$C_{28}H_{38}O_6$  (470.61). **Pharm:** Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line,  $1\mu\text{mol}/\text{L}$ )<sup>[4198]</sup>. **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root, leaf), GOU QI YE *Lycium chinense*, NING GU SHUI QIE *Withania coagulans*. **Ref:** 660, 4198, 5329.

**22703 Withanolide B**

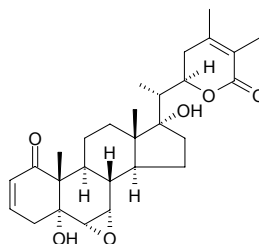
$C_{28}H_{38}O_5$  (454.61). **Source:** GOU QI YE *Lycium chinense*. **Ref:** 660.

**22704 Withanolide D**

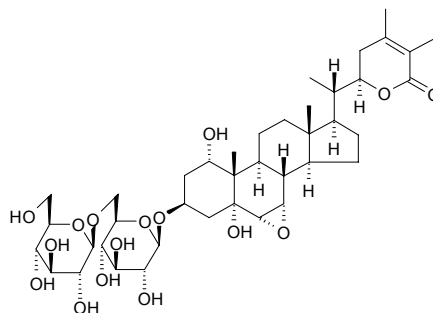
[30655-48-2]  $C_{28}H_{38}O_6$  (470.61). mp 253–255°C. **Pharm:** Antibacterial (gram-positive bacteria); antineoplastic ( $S_{180}$ , 40  $\text{mg}/\text{mL}$ ). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root), SHUI QIE *Solanum torvum*. **Ref:** 5, 658, 4198.

**22705 Withanone**

$C_{28}H_{36}O_6$  (470.61). **Pharm:** Cytotoxic (mouse mammary organ culture assay, 69% at  $10\mu\text{g}/\text{mL}$ )<sup>[5038]</sup>. **Source:** CUI MIAN SHUI QIE *Withania somnifera* (leaf), FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038, 5329.

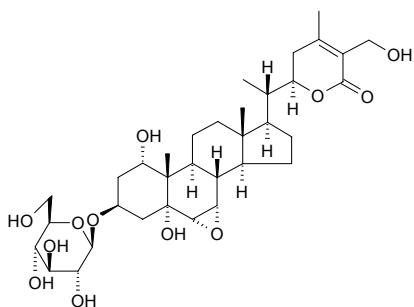
**22706 Withanoside II**

$C_{40}H_{62}O_{16}$  (798.93). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root). **Ref:** 4198.

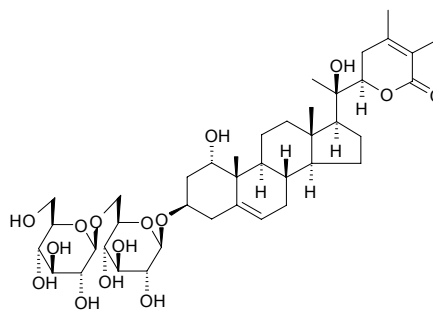


**22707 Withanoside III**

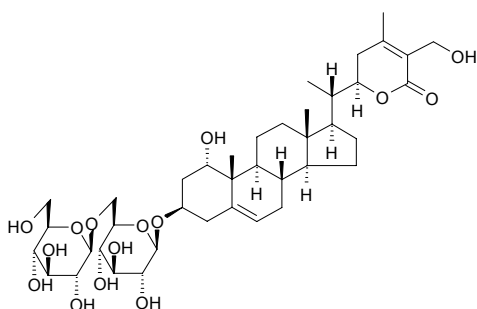
$C_{34}H_{52}O_{12}$  (652.79). Source: CUI MIAN SHUI QIE *Withania somnifera* (root).  
Ref: 4198.

**22710 Withanoside VI**

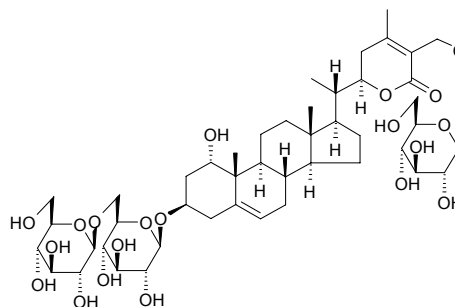
$C_{40}H_{62}O_{15}$  (782.93). Pharm: Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line,  $1\mu\text{mol/L}$ ). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

**22708 Withanoside IV**

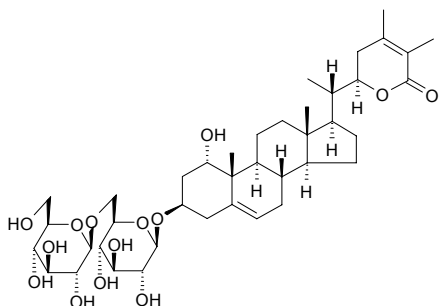
$C_{40}H_{62}O_{15}$  (782.93). Pharm: Neurite outgrowth activity (hmn neuroblastoma SH-SY5Y cell line,  $1\mu\text{mol/L}$ ). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

**22711 Withanoside VIII**

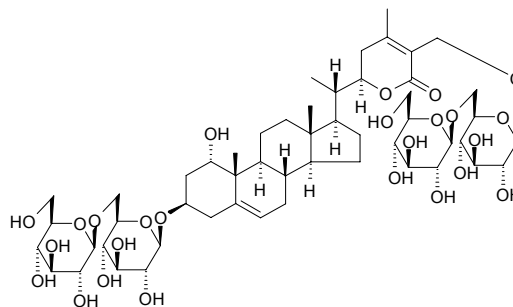
27-*O*- $\beta$ -*D*-Glucopyranosylpubesenolide 3-*O*- $\beta$ -*D*-glucopyranosyl (1 $\rightarrow$ 6)  $\beta$ -*D*-glucopyranoside  $C_{46}H_{72}O_{20}$  (945.07). Amorphous powder,  $[\alpha]_D^{23} = +10.4^\circ$  ( $c = 0.264$ , MeOH). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

**22709 Withanoside V**

$C_{40}H_{62}O_{14}$  (766.93). Source: CUI MIAN SHUI QIE *Withania somnifera* (root).  
Ref: 4198.

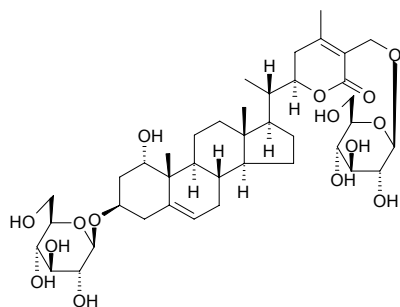
**22712 Withanoside IX**

27-*O*- $\beta$ -*D*-Glucopyranosyl (1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosylpubesenolide 3-*O*- $\beta$ -*D*-glucopyranosyl (1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranoside  $C_{52}H_{82}O_{25}$  (1107.22). Amorphous powder,  $[\alpha]_D^{23} = +16.7^\circ$  ( $c = 0.096$ , MeOH). Source: CUI MIAN SHUI QIE *Withania somnifera* (root). Ref: 4198.

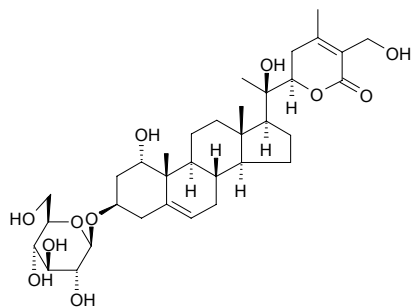


**22713 Withanoside X**

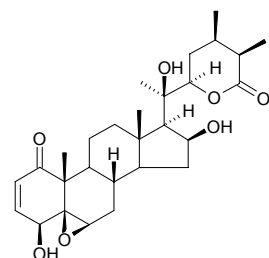
27-*O*- $\beta$ -D-Glucopyranosylpubesanolide 3-*O*- $\beta$ -D-glucopyranoside C<sub>40</sub>H<sub>62</sub>O<sub>15</sub> (782.93). Amorphous powder,  $[\alpha]_D^{23} = +21.1^\circ$  ( $c = 0.11$ , MeOH). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root). **Ref:** 4198.

**22714 Withanoside XI**

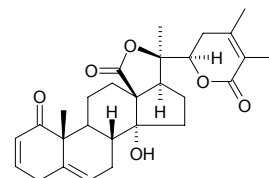
(20*R*,22*R*)-1 $\alpha$ ,3 $\beta$ ,20,27-Tetrahydroxywitha-5,24-dienolide 3-*O*- $\beta$ -D-glucopyranoside C<sub>34</sub>H<sub>52</sub>O<sub>11</sub> (636.79). Amorphous powder,  $[\alpha]_D^{23} = +18.8^\circ$  ( $c = 0.101$ , MeOH). **Source:** CUI MIAN SHUI QIE *Withania somnifera* (root). **Ref:** 4198.

**22715 Withaphysacarpin**

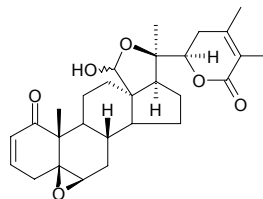
C<sub>28</sub>H<sub>40</sub>O<sub>7</sub> (488.63). **Pharm:** Cytotoxic (quinone reductase induction assay in cultured Hepa1c1c7 mouse hepatoma cells, IC<sub>50</sub> = 0.015  $\mu$ g/mL); cytotoxic (soft agar transformation assay with JB6 cells, IC<sub>50</sub> = 0.020  $\mu$ g/mL); cytotoxic (mouse mammary organ culture assay, 88% at 10  $\mu$ g/mL). **Source:** FEI CHENG SUAN JIANG *Physalis philadelphica*. **Ref:** 5038.

**22716 Withaphysalin A**

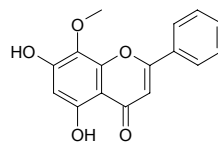
[57423-72-0] C<sub>28</sub>H<sub>34</sub>O<sub>6</sub> (466.58). **Source:** TIAN PAO ZI *Physalis minima*. **Ref:** 6.

**22717 Withaphysalin B**

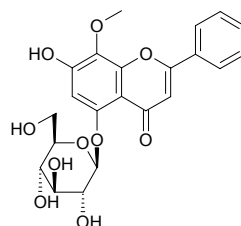
[57423-73-1] C<sub>28</sub>H<sub>36</sub>O<sub>6</sub> (468.60). **Source:** TIAN PAO ZI *Physalis minima*. **Ref:** 6.

**22718 Wogonin**

[632-85-9] C<sub>16</sub>H<sub>12</sub>O<sub>5</sub> (284.27). mp 203°C. **Pharm:** Antineoplastic; antispasmodic (mus intestine, *in vitro*); diuretic; estrogenic activity (rat); cytotoxic (hmn peripheral blood T cells, dose = 2.0  $\mu$ g/mL, T cell survival rate = 69%)<sup>[3498]</sup>; immunosuppressant (inhibits IL-2 secretion costimulated by CD28, dose = 2.0  $\mu$ g/mL, InRt = 77%)<sup>[3498]</sup>; anti-inflammatory (modulator of cytokine network: increases TNF- $\alpha$  level in RAW264.7 cells)<sup>[4416]</sup>; anti-inflammatory (hmn retinal pigment epithelial cell lines, IL-6 and IL-8 blocker, blocking production and expression of IL-6 and IL-8, IC<sub>50</sub> = 1~40  $\mu$ mol/L)<sup>[4416]</sup>; anti-inflammatory (hmn platelets 12-LOX inhibitor, without affecting level of cyclooxygenase; macrophages, COX-2 inhibitor, inhibits COX-2 expression)<sup>[4415]</sup>; anti-inflammatory (NO production inhibitor)<sup>[4415]</sup>; hypolipidemic; antioxidant; cytotoxic (KU-1 hmn bladder cancer cell line, EJ-1 hmn bladder cancer cell line, MBT-2 murine bladder cancer cell line, inhibits cell proliferation *in vitro* in a dose-dependent manner, less active than baicalin)<sup>[5369]</sup>; cytotoxic (LXFL529L hmn large cell lung carcinoma cell line and HL-60, inhibits cell growth at a micromolar range)<sup>[5369]</sup>; xanthine oxidase inhibitor (strong action, indicating that it might be useful for the remission of brain tumors, since xanthine oxidase serum levels are increased in tissues of brain tumors)<sup>[5369]</sup>; tyrosine kinase inhibitor (tyrosine kinase of EGFR, IC<sub>50</sub> > 60  $\mu$ mol/L)<sup>[5369]</sup>. **Source:** BAN ZHI LIAN *Scutellaria barbata* [Syn. *Scutellaria rivularis*], CHUAN HUANG QIN *Scutellaria hypericifolia*, DIAN HUANG QIN *Scutellaria amoena*, GAN SU HUANG QIN *Scutellaria rehderiana*, HONG CHAI HU *Bupleurum scorzonerifolium* (root), HUANG QIN *Scutellaria baicalensis* (dried root: content scope of 10 samples = 0.04%~2.59%, mean content = 0.66%<sup>[5508]</sup>), LI JIANG HUANG QIN *Scutellaria likiangensis*, SHAN TENG *Anodendron affine*, YIN CHAI HU *Stellaria dichotoma* var. *lanceolata*, NIAN MAO HUANG QIN *Scutellaria viscidula*. **Ref:** 2, 658, 660, 3498, 4415, 4416, 5369, 5501, 5508.

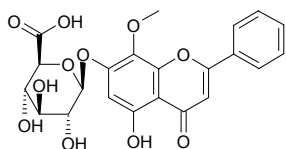
**22719 Wogonin 5- $\beta$ -D-glucoside**

C<sub>22</sub>H<sub>22</sub>O<sub>10</sub> (446.41). **Source:** HUANG QIN *Scutellaria baicalensis*. **Ref:** 660.

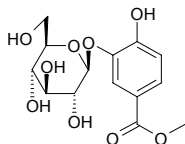


**22720 Wogonoside**

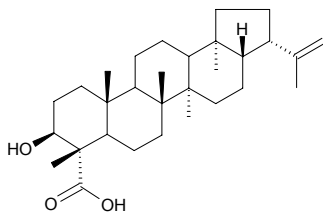
Wogonin-7-*O*-glucuronide [51059-44-0] C<sub>22</sub>H<sub>20</sub>O<sub>11</sub> (460.40). Yellow needles (MeOH), mp 228–229°C. **Pharm:** cAMP phosphodiesterase inhibitor (IC<sub>50</sub> = 42 μmol/L); antihistamine (rat, inhibits histamine release in peritoneum giant cell, IC<sub>50</sub> = 140 μmol/L); liver sialidase inhibitor (mus, 10 μg/mL, InRt = 12.6%); anti-inflammatory (mus, swollen foot model caused by carrageenan, inhibits leucocyte aggregation in inflammatory exudate); cytotoxic (LXFL529L hmn large cell lung carcinoma cell line and HL-60, inhibits cell growth at a micromolar range)<sup>[5369]</sup>; tyrosine kinase inhibitor (tyrosine kinase of EGFR, IC<sub>50</sub> > 60 μmol/L)<sup>[5369]</sup>. **Source:** LIAN QIAO *Forsythia suspensa*, CHUAN HUANG QIN *Scutellaria hypericifolia*, DIAN HUANG QIN *Scutellaria amoena*, HUANG QIN *Scutellaria baicalensis* (dried root: content scope of 10 samples = 1.07%–3.24%, mean content = 2.34%<sup>[5508]</sup>), NIAN MAO HUANG QIN *Scutellaria viscidula*. **Ref:** 2, 660, 1652, 1654, 1655, 1656, 2509, 5369, 5508.

**22721 Woodorien**

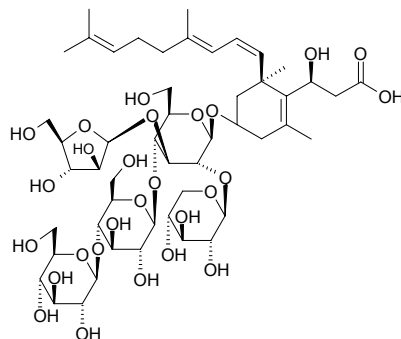
[155112-92-8] C<sub>14</sub>H<sub>18</sub>O<sub>9</sub> (330.29). Gray-white amorphous powder, [α]<sub>D</sub> = -2° (c = 0.15, ethanol). **Pharm:** Antiviral (HSV-1, 100 μg/mL). **Source:** DONG FANG GOU JI *Woodwardia orientalis*. **Ref:** 964.

**22722 Woodwardic acid**

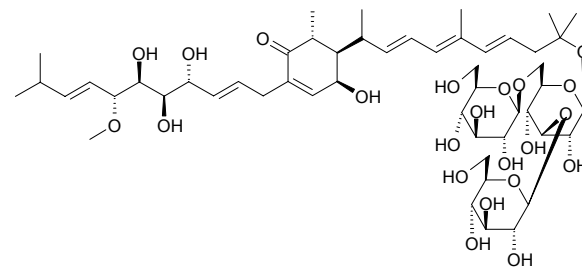
[32214-81-6] C<sub>30</sub>H<sub>48</sub>O<sub>3</sub> (456.72). mp 273–274°C (dec). **Source:** DONG FANG GOU JI *Woodwardia orientalis*. **Ref:** 6.

**22723 Woodwardinoside**

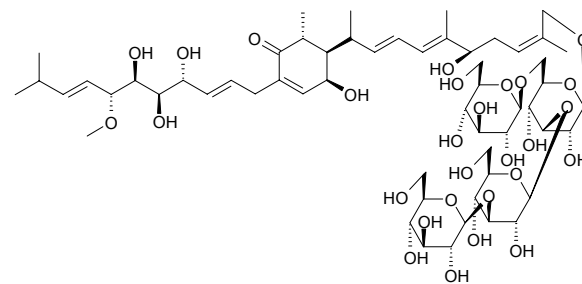
(4'*R*)-4'-*O*-[β-*D*-Glucopyranosyl-(1→4)]-β-*D*-arabinofuranosyl-(1→3)-β-*D*-glucopyranosyl-(1→4)]-[β-*D*-xylopyranosyl-(1→2)]-β-*D*-glucopyranosyl-1-4-woodwardine C<sub>50</sub>H<sub>80</sub>O<sub>27</sub> (1113.18). Colorless powder, [α]<sub>D</sub><sup>23</sup> = -42.0°. **Source:** FU JI NI YA GOU JI JUE *Woodwardia virginica*. **Ref:** 3415.

**22724 woodwardinoside B**

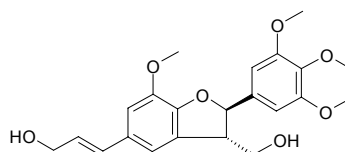
9-*O*-β-*D*-Glucopyranosyl-(1→3)-[β-*D*-glucopyranosyl-(1→6)]-β-*D*-Glucopyranoside C<sub>51</sub>H<sub>82</sub>O<sub>22</sub> (1047.21). Colorless powder, [α]<sub>D</sub><sup>23</sup> = -85.0° (c = 0.10, MeOH). **Source:** FU JI NI YA GOU JI JUE *Woodwardia virginica*. **Ref:** 3425.

**22725 Woodwardinoside C**

10'-*O*-[β-*D*-Glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl-(1→3)-β-*D*-glucopyranosyl-(1→3)-β-*D*-glucopyranoside C<sub>57</sub>H<sub>92</sub>O<sub>28</sub> (1225.35). Colorless powder, [α]<sub>D</sub><sup>23</sup> = -142.0° (c = 0.09, MeOH). **Source:** FU JI NI YA GOU JI JUE *Woodwardia virginica*. **Ref:** 3425.

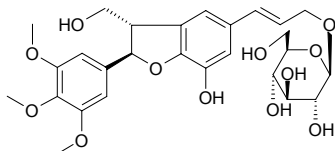
**22726 Woorenogenin**

[166990-13-2] C<sub>22</sub>H<sub>26</sub>O<sub>7</sub> (462.45). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 5506.

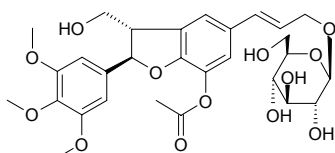


**22727 Woorenoside I**

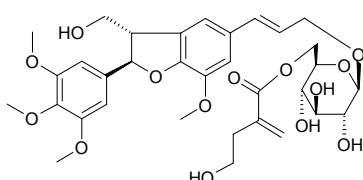
$C_{27}H_{34}O_{12}$  (550.56). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- $\alpha$  production by LPS-stimulated RAW264.7 macrophages,  $IC_{50}$  = 15–60  $\mu$ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22728 Woorenoside II**

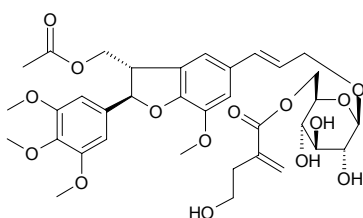
$C_{29}H_{36}O_{13}$  (592.60). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- $\alpha$  production by LPS-stimulated RAW264.7 macrophages,  $IC_{50}$  = 15–60  $\mu$ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22729 Woorenoside III**

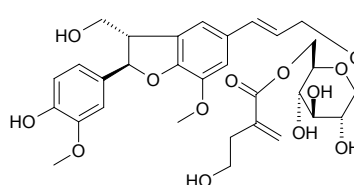
$C_{33}H_{42}O_{14}$  (662.69). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- $\alpha$  production by LPS-stimulated RAW264.7 macrophages,  $IC_{50}$  = 15–60  $\mu$ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22730 Woorenoside IV**

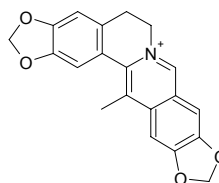
[166990-17-6]  $C_{35}H_{44}O_{15}$  (704.73). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- $\alpha$  production by LPS-stimulated RAW264.7 macrophages,  $IC_{50}$  = 15–60  $\mu$ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22731 Woorenoside V**

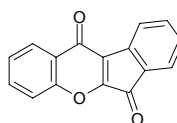
$C_{31}H_{38}O_{13}$  (618.64). **Pharm:** Anti-inflammatory (modulator of cytokine network: concentration-dependently blocks TNF- $\alpha$  production by LPS-stimulated RAW264.7 macrophages,  $IC_{50}$  = 15–60  $\mu$ mol/L). **Source:** RI BEN HUANG LIAN *Coptis japonica* (rhizome). **Ref:** 4416.

**22732 Worenine**

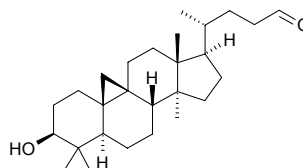
Corysamine [38763-29-0]  $C_{20}H_{16}NO_4^+$  (334.35). mp 212–213°C. **Source:** BAI QU CAI *Chelidonium majus*, JU HUA HUANG LIAN *Corydalis pallida*, ZI HUA YU DENG CAO *Corydalis incisa*. **Ref:** 2, 6, 1521.

**22733 Wrightiadione**

[148180-61-4]  $C_{16}H_8O_3$  (248.24). mp 228–230°C,  $[\alpha]_D = 0^\circ$  ( $c = 0.1$ , chloroform). **Pharm:** Antineoplastic (EAC,  $S_{180}$ , HCS, ARS, and  $P_{388}$ ,  $p < 0.05$ ). **Source:** YAN MU *Wrightia tomentosa*. **Ref:** 1107.

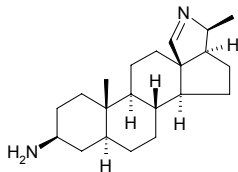
**22734 Wrightial**

$C_{27}H_{44}O_2$  (400.65). **Source:** BO TE LAN DA JI *Euphorbia portlandica* (whole herb). **Ref:** 5019.

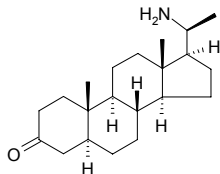


**22735 Wrightiamine A**

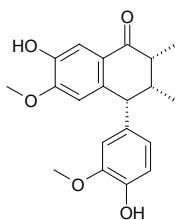
$C_{21}H_{34}N_2$  (314.52). Colorless amorphous solid,  $[\alpha]_D^{25} = -14^\circ$  ( $c = 0.2$ , MeOH). **Pharm:** Cytotoxic (VCR-resistant murine leukemia P<sub>388</sub> cells, IC<sub>50</sub> in presence of VCR 12.5ng/mL = 2.0μg/mL, IC<sub>50</sub> in absence of VCR = 3.1μg/mL). **Source:** ZHAO WA DAO DIAO BI *Wrightia javanica* (leaf). **Ref:** 4352.

**22736 Wrightiamine B**

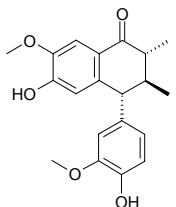
$C_{21}H_{35}NO$  (317.52). Colorless amorphous solid,  $[\alpha]_D^{25} = +5^\circ$  ( $c = 0.04$ , MeOH). **Pharm:** Cytotoxic (VCR-resistant murine leukemia P<sub>388</sub> cells, IC<sub>50</sub> in presence of VCR 12.5ng/mL = 22μg/mL, IC<sub>50</sub> in absence of VCR = 25μg/mL). **Source:** ZHAO WA DAO DIAO BI *Wrightia javanica* (leaf). **Ref:** 4352.

**22737 Wulignan A<sub>1</sub>**

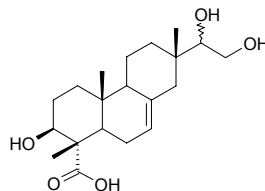
$C_{20}H_{22}O_5$  (342.40). **Source:** YI GENG WU WEI ZI *Schisandra henryi*. **Ref:** 660.

**22738 Wulignan A<sub>2</sub>**

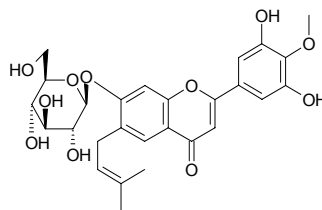
$C_{20}H_{22}O_5$  (342.40). **Source:** YI GENG WU WEI ZI *Schisandra henryi*. **Ref:** 660.

**22739 Wulingzhiic acid**

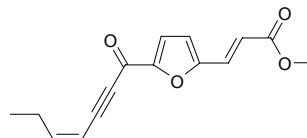
3β,15ζ,16-Trihydroxy isopimaric acid  $C_{20}H_{32}O_5$  (352.48). **Source:** WU LING ZHI *Trogopterus xanthipes*; *Pteromys volans*. **Ref:** 660.

**22740 Wushanicariin**

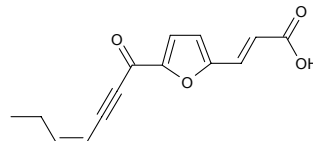
$C_{27}H_{30}O_{11}$  (530.53). Yellow acicular crystals, easily soluble in pyridine; soluble in ethanol, methanol, acetone; slightly soluble in chloroform, mp 252°C. **Source:** WU SHAN YIN YANG HUO *Epimedium wushanense*, YIN YANG HUO *Epimedium brevicornum*. **Ref:** 92, 623.

**22741 Wyerone**

[20079-30-5]  $C_{15}H_{14}O_4$  (258.28). **Pharm:** Antifungal (plant antitoxin). **Source:** CAN DOU *Vicia faba*, BING DOU *Lens culinaris*. **Ref:** 658.

**22742 Wyerone acid**

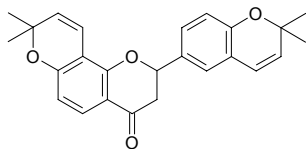
[54954-14-2]  $C_{14}H_{12}O_4$  (244.25). **Pharm:** Antifungal (plant antitoxin). **Source:** CAN DOU *Vicia faba*. **Ref:** 658.



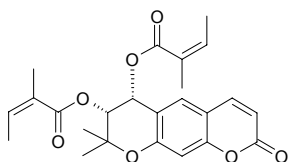
## X

**22743 Xambioona**

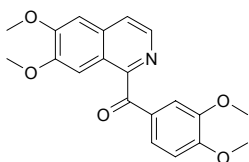
$C_{25}H_{24}O_4$  (388.47). Source: *Glycyrrhiza* sp. Ref: 2431.

**22744 Xanthalin**

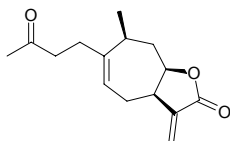
[21800-48-6]  $C_{24}H_{26}O_7$  (426.47). White powder, mp 110~112°C,  $[\alpha]_D = -163^\circ$  (EtOH). Source: MO GUO QIN *Sphallerocarpus gracilis*. Ref: 2500.

**22745 Xanthaline**

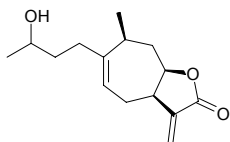
Papaveraldine [522-57-6]  $C_{20}H_{19}NO_5$  (353.38). mp 210°C. Source: YA PIAN *Papaver somniferum*. Ref: 6.

**22746 Xanthalongin**

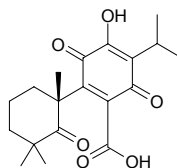
$C_{15}H_{20}O_3$  (248.32). Source: JIN FEI CAO *Inula japonica*. Ref: 1521, 5422.

**22747 4H-Xanthalongin**

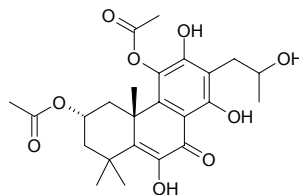
$C_{15}H_{22}O_3$  (250.34). Source: JIN FEI CAO *Inula japonica*. Ref: 5422.

**22748 Xanthanthusin E**

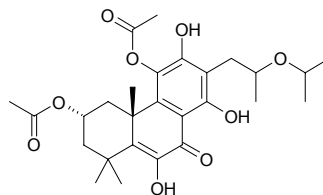
$C_{19}H_{24}O_6$  (348.4). Pharm: Cytotoxic (*in vitro*, K562,  $IC_{50} = 34.3\mu\text{g/mL}$ ; control Mitoxanthrone,  $IC_{50} = 2\mu\text{g/mL}$ ). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00023%dw). Ref: 4625.

**22749 Xanthanthusin F**

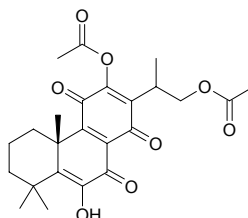
17-(15→16)-Abeo-2 $\alpha$ ,11-diacetoxy-6,12,14,16-tetrahydroxyabieta-5,8,11,13-tetraen-7-one  $C_{24}H_{30}O_9$  (462.6). Yellow amorphous powder,  $[\alpha]_D^{25.8} = +39.4^\circ$  ( $c = 0.40$ ,  $CHCl_3$ ). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00013%dw). Ref: 4625.

**22750 Xanthanthusin G**

17-(15→6)-Abeo-2 $\alpha$ ,11-diacetoxy-16-*O*-isopropyl-6,12,14-trihydroxyabieta-5,8,11,13-tetraen-7-one  $C_{27}H_{36}O_9$  (504.58). Yellow amorphous powder,  $[\alpha]_D^{25.7} = +35.0^\circ$  ( $c = 0.35$ ,  $CHCl_3$ ). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00005%dw). Ref: 4625.

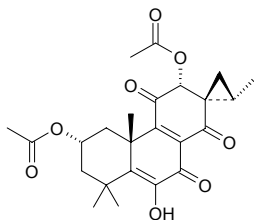
**22751 Xanthanthusin H**

12,16-Diacetoxy-6-hydroxyabieta-5,8,12-trien-7,11,14-trione  $C_{24}H_{28}O_8$  (444.49). Yellow amorphous powder,  $[\alpha]_D^{25.7} = -135.0^\circ$  ( $c = 0.10$ ,  $CHCl_3$ ). Pharm: Cytotoxic (*in vitro*, K562,  $IC_{50} = 12.9\mu\text{g/mL}$ ; control Mitoxanthrone,  $IC_{50} = 2\mu\text{g/mL}$ ). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00035%dw). Ref: 4625.

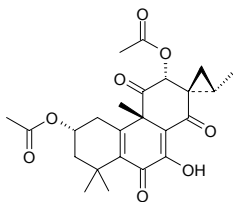


**22752 Xanthanthusin I**

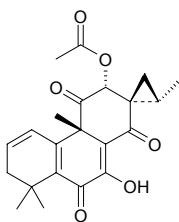
(13*S*,15*S*)-2 $\alpha$ ,12 $\alpha$ -Diacetoxy-6-hydroxy-13,16-cycloabieta-5,8-dien-7,11,14-trione C<sub>24</sub>H<sub>28</sub>O<sub>8</sub> (444.49). Yellow amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>24.8</sup> = -49.5° (*c* = 0.46, CHCl<sub>3</sub>). **Source:** HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.0031%dw). **Ref:** 4625.

**22753 Xanthanthusin J**

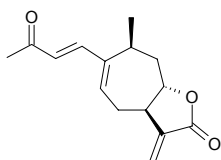
(9*S*,13*S*,15*S*)-20-(10 $\rightarrow$ 9)-abeo-2 $\alpha$ ,12 $\alpha$ -Diacetoxy-7-hydroxy-13,16-cycloabiet a-5(10),7-dien-6,11,14-trione C<sub>24</sub>H<sub>28</sub>O<sub>8</sub> (444.49). Yellow amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>13.6</sup> = +261.3° (*c* = 0.35, CHCl<sub>3</sub>). **Source:** HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00043%dw). **Ref:** 4625.

**22754 Xanthanthusin K**

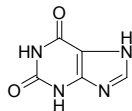
(9*S*,13*S*,15*S*)-20-(10 $\rightarrow$ 9)-Abeo-12 $\alpha$ -acetoxy-7-hydroxy-13,16-cycloabieta-1,5(10),7-trien-6,11,14-trione C<sub>22</sub>H<sub>24</sub>O<sub>6</sub> (384.43). Yellow amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>13.6</sup> = +261.9° (*c* = 0.44, CHCl<sub>3</sub>). **Source:** HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00020%dw). **Ref:** 4625.

**22755 Xanthatin**

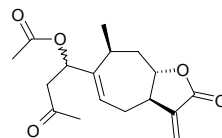
[26791-73-1] C<sub>15</sub>H<sub>18</sub>O<sub>3</sub> (246.31). **Pharm:** Antibacterial; antifungal; insect larva growth inhibitor. **Source:** BIN XI FA NI YA CANG ER *Xanthium pennsylvanicum*, CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*], XIAO XI CANG ER *Xanthium riparium*, *Xanthium* sp. **Ref:** 658.

**22756 Xanthine**

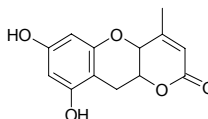
3,7-Dihydropurine-2,6-dione [69-89-6] C<sub>5</sub>H<sub>4</sub>N<sub>4</sub>O<sub>2</sub> (152.11). mp > 150°C (dec). **Source:** CHA YE *Camellia sinensis* [Syn. *Thea sinensis*], QIU YIN *Pheretima aspergillum*, *Allolobophora caliginosa trapezoides*, XIA TIAN GAO *Bos taurus domesticus*. **Ref:** 6.

**22757 Xanthinin**

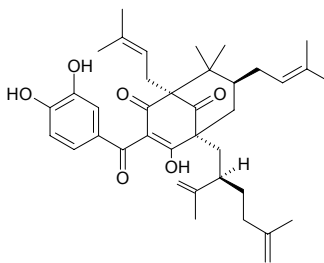
[580-49-4] C<sub>17</sub>H<sub>22</sub>O<sub>5</sub> (306.36). mp 121~122°C. **Pharm:** Phytohormone active against auxin. **Source:** CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*], DONG FANG CANG ER *Xanthium orientale*, PU TONG CANG ER *Xanthium commune*. **Ref:** 6, 658.

**22758 Xanthocerin**

C<sub>13</sub>H<sub>12</sub>O<sub>5</sub> (248.24). Colorless acicular crystals, mp 262~264°C. **Source:** WEN GUAN MU *Xanthoceras sorbifolia*. **Ref:** 842.

**22759 Xanthochymol**

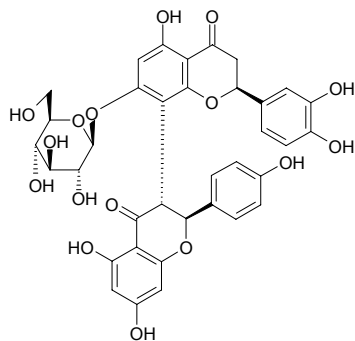
[52617-32-0] C<sub>38</sub>H<sub>50</sub>O<sub>6</sub> (602.82). **Pharm:** antioxidant (DPPH radical scavenger, 10 $\mu$ mol/L, ScRt = 61%, IC<sub>50</sub> = 8.50 $\mu$ mol/L; control BHT, 10 $\mu$ mol/L, ScRt = 43%, IC<sub>50</sub> = 19.00 $\mu$ mol/L)<sup>[4422]</sup>; antibacterial (*Staphylococcus aureus*, penicillin-sensitive strain ATCC 25923, MIC = 8 $\mu$ g/mL; Methicillin-resistant strain MRSA SK1, MIC = 8 $\mu$ g/mL)<sup>[4422]</sup>. **Source:** DA YE TENG HUANG *Garcinia xanthochymus*, LUAN YE TENG HUANG *Garcinia ovalifolia*, MAN TENG HUANG *Garcinia mannii*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 658, 660, 4422.



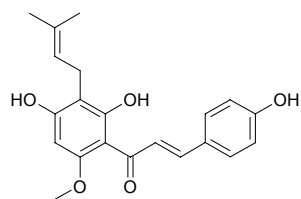


**22760 Xanthochymusside**

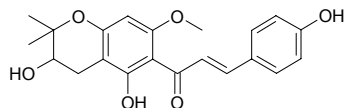
[31654-49-6] C<sub>36</sub>H<sub>32</sub>O<sub>16</sub> (720.65). mp 219°C. **Pharm:** Antioxidant (DPPH radical scavenger, 10 μmol/L, ScRt = 36%; control BHT, 10 μmol/L, ScRt = 43%, IC<sub>50</sub> = 19.00 μmol/L)<sup>[4422]</sup>. **Source:** SHAN ZHU ZI *Garcinia multiflora*, TIAN SHAN ZHU ZI *Garcinia dulcis* (flower). **Ref:** 6, 1521, 4422.

**22761 Xanthohumol**

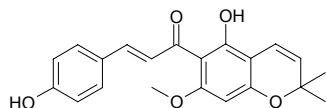
[569-83-5] C<sub>21</sub>H<sub>22</sub>O<sub>5</sub> (354.41). mp 172°C. **Pharm:** Cytotoxic (inhibits cellular hyperplasia of mammary cancer, colon cancer and ovary cancer A-2780); anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN-γ, IC<sub>50</sub> = 8.3 μmol/L, without showing cytotoxicity at concentrations lower than 10 μmol/L, cell viability > 95%)<sup>[4795]</sup>. **Source:** KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*], PI JIU HUA *Humulus lupulus* (strobile)<sup>[4789,4795]</sup>. **Ref:** 6, 1582, 4789, 4795.

**22762 Xanthohumol B**

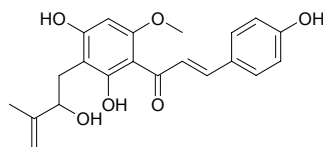
C<sub>21</sub>H<sub>22</sub>O<sub>6</sub> (370.41). **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN-γ, IC<sub>50</sub> = 5.6 μmol/L, without showing cytotoxicity at concentrations lower than 10 μmol/L, cell viability > 95%)<sup>[4795]</sup>. **Source:** PI JIU HUA *Humulus lupulus* (strobile)<sup>[4789,4795]</sup>. **Ref:** 4789, 4795.

**22763 Xanthohumol C**

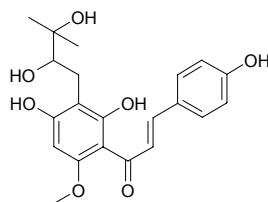
C<sub>21</sub>H<sub>20</sub>O<sub>5</sub> (352.39). **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4789.

**22764 Xanthohumol D**

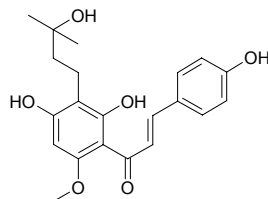
C<sub>21</sub>H<sub>22</sub>O<sub>6</sub> (370.41). **Pharm:** Anti-inflammatory (NO production inhibitor, *in vitro*, macrophage RAW264.7 cells, induced by LPS/IFN-γ, IC<sub>50</sub> = 9.4 μmol/L, without showing cytotoxicity at concentrations lower than 10 μmol/L, cell viability > 95%)<sup>[4795]</sup>. **Source:** PI JIU HUA *Humulus lupulus* (strobile)<sup>[4789,4795]</sup>. **Ref:** 4789, 4795.

**22765 Xanthohumol G**

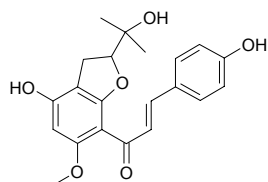
±{(2*E*)-1-[2,4-Dihydroxy-3-(2,3-dihydroxy-3-methylbutyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)-2-propen-1-one} C<sub>21</sub>H<sub>24</sub>O<sub>7</sub> (388.42). Yellow-orange powder. **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4789.

**22766 Xanthohumol H**

(2*E*)-1-[2,4-Dihydroxy-3-(3-hydroxy-3-methylbutyl)-6-methoxyphenyl]-3-(4-hydroxyphenyl)-2-propen-1-one C<sub>21</sub>H<sub>24</sub>O<sub>6</sub> (372.42). Yellow-orange solid. **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4789.

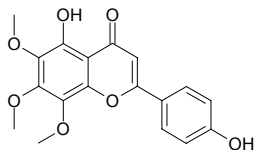
**22767 Xanthohumol I**

(2*E*)-1-[2,3-Dihydro-4-hydroxy-2-(1-hydroxy-1-methylethyl)-6-methoxy-5-benzofuranyl]-3-(4-hydroxyphenyl)-2-propen-1-one; XH-I C<sub>21</sub>H<sub>22</sub>O<sub>6</sub> (370.41). Orange powder. **Source:** PI JIU HUA *Humulus lupulus* (strobile). **Ref:** 4789.

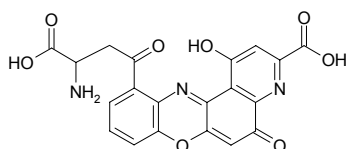


**22768 Xanthomicrol**

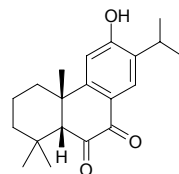
[16545-23-6] C<sub>18</sub>H<sub>16</sub>O<sub>7</sub> (344.32). mp 227~230°C. **Pharm:** Cytotoxic (KB, ED<sub>50</sub> = 0.7~100µg/mL); antineoplastic (Friend virus leukemia, T/C < 140%); antispasmodic; antifungal (solanum-shape *Fusarium*, *Aspergillus parasiticus*, *Oidium tropioale*). **Source:** LA BO HE *Mentha piperita*, MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], SU DA QI GAN JU *Citrus sudachii*, *Baccharis* spp., *Sideritis* spp., *Thymus* spp. **Ref:** 6, 1767, 1769, 1770, 1521.

**22769 Xanthomatin**

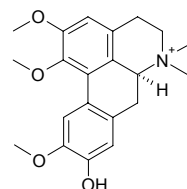
[521-58-4] C<sub>20</sub>H<sub>13</sub>N<sub>3</sub>O<sub>8</sub> (423.32). **Source:** YUAN CAN ZI *Bombyx mori*. **Ref:** 6.

**22770 Xanthoperol**

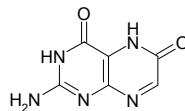
[564-23-8] C<sub>20</sub>H<sub>26</sub>O<sub>3</sub> (314.43). mp (+) 255~270°C (dec). **Source:** DU SONG SHI *Juniperus rigida*. **Ref:** 6.

**22771 Xanthoplanine**

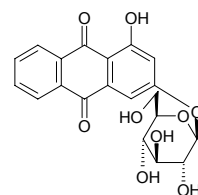
[6872-88-4] C<sub>21</sub>H<sub>26</sub>NO<sub>4</sub><sup>+</sup> (356.45). **Source:** ZHU YE JIAO *Zanthoxylum planispinum*, ZHU YE JIAO GEN *Zanthoxylum planispinum*, MA WEI LIAN *Thalictrum foliolosum*. **Ref:** 6, 660.

**22772 Xanthopterin**

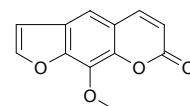
[119-44-8] C<sub>6</sub>H<sub>5</sub>N<sub>5</sub>O<sub>2</sub> (179.14). mp > 410°C, (> 360°C, carbonization). **Source:** JIN YU *Carassius auratus*. **Ref:** 6.

**22773 Xanthopurpurin-3-O-β-D-glucoside**

1,3-Dihydroxy-9,10-anthraquinone 3-O-β-D-glucoside C<sub>20</sub>H<sub>18</sub>O<sub>9</sub> (402.36). **Source:** QIAN CAO GEN *Rubia cordifolia*. **Ref:** 660.

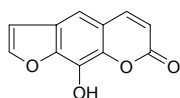
**22774 Xanthotoxin**

8-Methoxyxpsoralen [298-81-7] C<sub>12</sub>H<sub>8</sub>O<sub>4</sub> (216.20). mp 148°C. **Pharm:** Antibacterial (broad spectrum, hmn *Mycobacterium tuberculosis*, EC = 100µg/mL, enhances antibacterial action of phage by over 100 times); photosensitizer; antispasmodic; piscicide; cytotoxic (24h: HL-60, IC<sub>50</sub> > 50µg/mL, control Adriamycin IC<sub>50</sub> < 0.10µg/mL; P<sub>388</sub>, IC<sub>50</sub> = 50µg/mL, Adriamycin IC<sub>50</sub> < 0.10µg/mL; CoLo205, IC<sub>50</sub> = 35.3µg/mL, Adriamycin IC<sub>50</sub> = 0.63µg/mL; HeLa, IC<sub>50</sub> > 50µg/mL, Adriamycin IC<sub>50</sub> = 0.15µg/mL)<sup>[5486]</sup>; AChE inhibitor (*in vitro*, IC<sub>50</sub> = 54µmol/L)<sup>[3058]</sup>; LD<sub>50</sub> (mus, orl) ≥ 1000mg/kg, (rat, orl) ≥ 4000mg/kg, (rat, im) = 160mg/kg, (rat, ip) = 470mg/kg. **Source:** AO PA CAO *Oppopanax chironium* (root), BAI HUA QIAN HU *Peucedanum praeruptorum* (root: mean content = 0.0105%)<sup>[5508]</sup>, BU GU ZHI *Psoralea corylifolia*, CHAO XIAN DANG GUI *Angelica gigas* (underground part)<sup>[3058]</sup>, DA A MI *Ammi majus*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], HANG BAI ZHI *Angelica taiwaniana*, NIU FANG FENG *Heracleum sphondylium*, OU FANG FENG *Pastinaca sativa*, SHE CHUANG ZI *Cnidium monnieri* (fruit), SHE CHUANG ZI *Cnidium monnieri* (ripe seed: mean content of 26 origins = 0.129%)<sup>[5508]</sup>, YAO YONG DANG GUI *Angelica officinalis*, YUAN DANG GUI *Angelica archangelica*, YUN NAN QIANG HUO *Pleurospermum rivulorum*, *Niphogeton ternata*, *Fagara* sp., *Ruta* sp. **Ref:** 5, 558, 658, 3058, 4156, 4071, 5486, 5501, 5508.

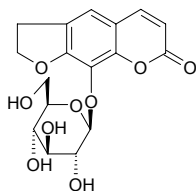


**22775 Xanthotoxol**

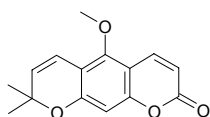
[2009-24-7] C<sub>11</sub>H<sub>6</sub>O<sub>4</sub> (202.17). mp 251~252°C. **Pharm:** Cytotoxic (HeLa); antioxidant (DPPH scavenger, EC<sub>50</sub> = 25.7 μg/mL = 192 μmol/L, control Ascorbic acid, EC<sub>50</sub> = 1.6 μg/mL = 9.1 μmol/L)<sup>[4154]</sup>; NO Production inhibitor (LPS-activated mouse peritoneal macrophages, 100 μmol/L, InRt = (45.1±4.0)%, control L-NMMA, 100 μmol/L, InRt = (79.2±0.9)%)<sup>[4454]</sup>. **Source:** BEI SHA SHEN *Glehnia littoralis* (underground part), FEN CHA DANG GUI *Angelica furcijuga* (flower), GOU JU *Poncirus trifoliata*, HANG BAI ZHI *Angelica taiwaniana*, OU FANG FENG *Pastinaca sativa*, QIANG HUO *Notopterygium incisum*, SHE CHUANG ZI *Cnidium monnieri* (ripe seed: mean content of 4 samples = 0.015%)<sup>[5508]</sup>, YA ZHOU DU HUO *Heracleum lanatum* var. *asiaticum*, YUAN DANG GUI *Angelica archangelica*, YUN NAN QIANG HUO *Pleurospermum rivulorum*, YUN QIAN HU *Peucedanum rubricaulis*. **Ref:** 2, 177, 325, 507, 558, 658, 660, 4154, 4454, 5508.

**22776 Xanthotoxol 8-O-β-D-glucopyranoside**

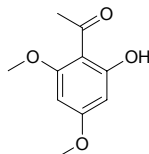
C<sub>17</sub>H<sub>16</sub>O<sub>9</sub> (366.33). Amorphous powder, [α]<sub>D</sub><sup>22</sup> = -24°. **Source:** BEI SHA SHEN *Glehnia littoralis* (fruit). **Ref:** 3525.

**22777 Xanthoxyletin**

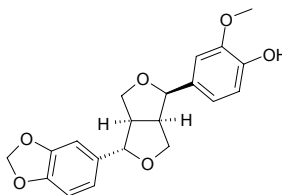
Xanthoxylin N [84-99-1] C<sub>15</sub>H<sub>14</sub>O<sub>4</sub> (258.28). **Pharm:** Antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500 mol ratio/32 pmol TPA, EBV-EA-positive cells = (44.6±1.3)% (viability > 80%), β-Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%); IC<sub>50</sub> = 463 mol ratio/32 pmol TPA, β-Carotene, IC<sub>50</sub> = 400 mol ratio/32 pmol TPA, Curcumin IC<sub>50</sub> = 341 mol ratio/32 pmol TPA)<sup>[5048]</sup>; cytotoxic (inhibits biosynthesis of NDA by means of blocking thymidine to go into leukemia cell HL-60); antibacterial inactive (*Mycobacterium tuberculosis*, control Isoniazide, MIC = (0.040~0.090) μg/mL, Kanamycin sulfate, MIC = 2.0~5.0 μg/mL)<sup>[5367]</sup>; antifungal inactive (*Candida albicans*, control Amphotericin, IC<sub>50</sub> = 0.01 μg/mL)<sup>[5367]</sup>. **Source:** CHENG ZI *Citrus junos*, SHAN HUANG PI *Clausena excavata*, MEI ZHOU HUA JIAO *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*], *Citrus tamurana*, *Citrus hassaku*. **Ref:** 703, 2176, 5048, 5367.

**22778 Xanthoxilin**

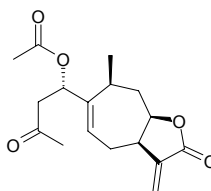
Phloracetophenone [90-24-4] C<sub>10</sub>H<sub>12</sub>O<sub>4</sub> (196.20). **Pharm:** Cytotoxic (EAC); prostaglandin biosynthetase inhibitor; 5-lipoxygenase inhibitor. **Source:** AI NA XIANG *Blumea balsamifera*, DUAN YE JUAN HAO *Artemisia brevifolia*, MA FENG MU *Hippomane mancinella*, WU JIU MU GEN PI *Sapium sebiferum*. **Ref:** 6, 658.

**22779 Xanthoxylol**

[54983-95-8] C<sub>20</sub>H<sub>20</sub>O<sub>6</sub> (356.38). Crystals, mp 140~142°C, [α]<sub>D</sub> = -117° (CHCl<sub>3</sub>). **Pharm:** Cancer-preventing activity. **Source:** HU JIAO HUA JIAO *Zanthoxylum piperitum*, QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.00073% dw)<sup>[4712]</sup>, occurs in many human foods. **Ref:** 1521, 1582, 4712.

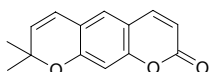
**22780 Xanthumin**

[26791-72-0] C<sub>17</sub>H<sub>22</sub>O<sub>5</sub> (306.36). mp 101°C (ether-chloroform), 97.0~98.5 °C (ether). **Pharm:** Insect antifeedant. **Source:** CAI SI CANG ER *Xanthium chasei*, CANG ER *Xanthium sibiricum* [Syn. *Xanthium strumarium*], XI FANG CANG ER *Xanthium occidentale*, ZHONG GUO CANG ER *Xanthium chinense*. **Ref:** 6, 658.

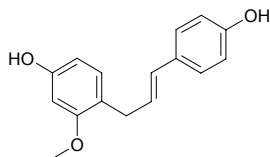


**22781 Xanthyletin**

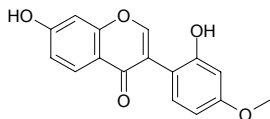
[553-19-5]  $C_{14}H_{12}O_3$  (228.25). mp 131.5°C, bp 140~145°C/0.1mmHg. **Pharm:** Antibacterial; antispasmodic; phyto-growth inhibitor (100µg/mL, *Amaranthus hypochondriacus*, InRt = (0.0±0.0)%,  $p < 0.05$ ; *E. crusgalli*, InRt = (69.7±2.1)%,  $p < 0.05$ )<sup>[5253]</sup>; cytotoxic (*in vitro*, A549, ED<sub>50</sub> = 79.8µg/mL, control Adriamycin, ED<sub>50</sub> = 0.0322µg/mL; MCF7, ED<sub>50</sub> = 18.4µg/mL, Adriamycin, ED<sub>50</sub> = 0.0204µg/mL; HT29, ED<sub>50</sub> = 47.4µg/mL, Adriamycin, ED<sub>50</sub> = 0.0421µg/mL; A498, ED<sub>50</sub> = 64.8µg/mL, Adriamycin, ED<sub>50</sub> = 0.00348µg/mL; PC3, ED<sub>50</sub> = 45.2µg/mL, Adriamycin, ED<sub>50</sub> = 0.241µg/mL; PACA-2, ED<sub>50</sub> = 5.5µg/mL, Adriamycin, ED<sub>50</sub> = 0.0120µg/mL)<sup>[5253]</sup>; cytotoxic (HeLa *in vitro*, ID<sub>50</sub> = 10µg/mL); antineoplastic (Raji cells, antitumor promotor, *in vivo*, inhibits TPA-induced EBV-EA activation, compound concentration = 500mol ratio/32 pmol TPA, EBV-EA-positive cells = (48.4±1.1)% (viability > 80%), β-Carotene, EBV-EA-positive cells = (34.3±1.1)% (viability > 80%), Curcumin, EBV-EA-positive cells = (22.8±1.8)% (viability > 80%); IC<sub>50</sub> = 479mol ratio/32 pmol TPA, β-Carotene, IC<sub>50</sub> = 400mol ratio/32 pmol TPA, Curcumin IC<sub>50</sub> = 341mol ratio/32 pmol TPA)<sup>[5048]</sup>; AChE inhibitor (*in vitro*, IC<sub>50</sub> = 150µmol/L)<sup>[3058]</sup>. **Source:** CHOU CAO *Ruta graveolens*, CHU YE HUA JIAO *Zanthoxylum ailanthoides*, CHU YE HUA JIAO PI *Zanthoxylum ailanthoides*, JIAO GAN *Citrus tankan*, LAI MENG *Citrus aurantifolia*, LI HUA JU *Citrus tachibana*, MEI ZHOU HUA JIAO *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*], NING MENG *Citrus limon*, NING MENG GEN *Citrus limon*, SAN YE TENG JU *Luvunga scandens*, CHAO XIAN DANG GUI *Angelica gigas* (underground part)<sup>[3058]</sup>, YAN JIAO CAO *Boeninghausenia albiflora*, *Citrus medica* var. *etrog*, *Citrus rugulosa*, *Citrus jambhiri*, *Citrus tamurana*, *Citrus hassaku*, *Stauranthus perforatus* (root). **Ref:** 5, 6, 658, 660, 3058, 5048, 5253.

**22782 Xenognosin A**

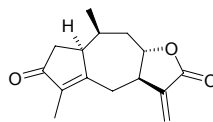
[7690-79-4]  $C_{16}H_{16}O_3$  (256.30). **Pharm:** Stress-induced plant metabolite. **Source:** WAN DOU *Pisum sativum*. **Ref:** 658.

**22783 Xenognosin B**

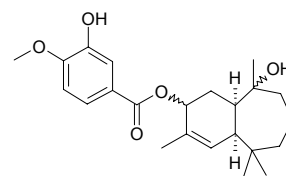
2',7-Dihydroxy-4'-methoxyisoflavone [1890-99-9]  $C_{16}H_{12}O_5$  (284.27). **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 716.

**22784 Xerantholide**

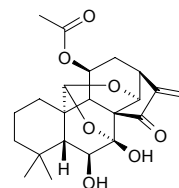
[65017-97-2]  $C_{15}H_{18}O_3$  (246.31). mp 175~177°C. **Pharm:** Cytotoxic (HeLa, ID<sub>50</sub> = 1.45µg/mL, KB, ED<sub>50</sub> = 1.503µg/mL); insect antifeedant. **Source:** CHANG TONG HAN HUA *Xeranthemum cylindraceum*. **Ref:** 5, 658.

**22785 Xeroferin**

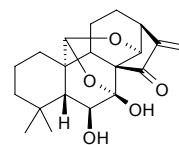
[69184-32-3]  $C_{22}H_{30}O_8$  (422.48). Crystals, (acetic ether-cyclohexane), mp 118~120°C. **Source:** *Ferula xeromorpha* **Ref:** 2273.

**22786 Xerophilusin A**

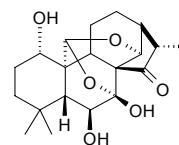
$C_{22}H_{28}O_7$  (404.46). Amorphous powder,  $[\alpha]_D^{23.4} = -139.4^\circ$  ( $c = 0.57$ , MeOH). **Source:** HAN SHENG XIANG CHA CAI *Isodon xerophilus*. **Ref:** 4067.

**22787 Xerophilusin B**

$C_{20}H_{26}O_5$  (346.43). mp 173~174°C,  $[\alpha]_D^{22.9} = -150.0^\circ$  ( $c = 0.46$ , pyridine). **Source:** HAN SHENG XIANG CHA CAI *Isodon xerophilus*. **Ref:** 4067.

**22788 Xerophilusin C**

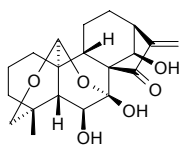
[272459-38-8]  $C_{20}H_{28}O_6$  (364.44). **Source:** HAN SHENG XIANG CHA CAI *Isodon xerophilus*. **Ref:** 4067.



**22789 Xerophilusin D**

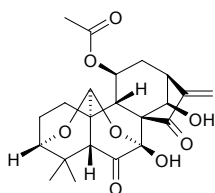
$C_{20}H_{26}O_6$  (362.43). mp 209~210°C,  $[\alpha]_D^{23.1} = -120.8^\circ$  ( $c = 0.389$ , pyridine).

Source: HAN SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067.

**22790 Xerophilusin E**

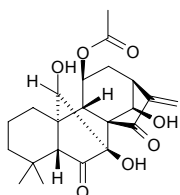
$C_{22}H_{26}O_8$  (418.45). mp 223~225°C,  $[\alpha]_D^{20} = -32.0^\circ$  ( $c = 0.0625$ , MeOH).

Source: HAN SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067.

**22791 Xerophilusin F**

$C_{22}H_{28}O_7$  (404.46). mp 193~195°C,  $[\alpha]_D^{22.8} = +12.2^\circ$  ( $c = 0.308$ , pyridine).

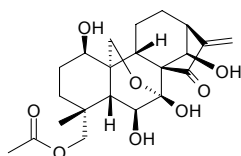
Source: HAN SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067.

**22792 Xerophilusin G**

1 $\beta$ ,6 $\beta$ ,7 $\beta$ ,14 $\beta$ -Tetrahydroxy-19-acetoxy-7 $\alpha$ ,20-epoxy-ent-kaur-16-en-15-one

$C_{22}H_{30}O_8$  (422.48). Colorless acicular crystals (MeOH), mp 216~218°C,

$[\alpha]_D^{22.7} = -116.3^\circ$  ( $c = 0.432$ , pyridine). Pharm: Cytotoxic (K562,  $IC_{50} = 138.84\mu\text{g/mL}$ , control Mitoxantrone,  $IC_{50} = 0.29\mu\text{g/mL}$ ; HL-60,  $IC_{50} = 3.93\mu\text{g/mL}$ , Mitoxantrone,  $IC_{50} = 0.29\mu\text{g/mL}$ )<sup>[5182]</sup>. Source: HAN SHENG XIANG CHA CAI *Isodon xerophilus* (leaf). Ref: 894, 4067, 5182.

**22793 Xerophilusin I**

1 $\beta$ ,6 $\beta$ ,7 $\beta$ -Trihydroxy-7 $\alpha$ ,20-epoxy-ent-kaur-16-en-15-one  $C_{20}H_{28}O_5$  (348.44).

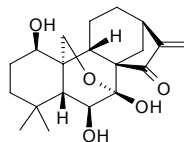
White Amorphous powder,  $[\alpha]_D^{22.7} = -146.3^\circ$  ( $c = 0.405$ , pyridine). Pharm:

Cytotoxic (K562,  $IC_{50} = 2.75\mu\text{g/mL}$ , control Mitoxantrone,  $IC_{50} = 0.29\mu\text{g/mL}$ ;

HL-60,  $IC_{50} = 0.19\mu\text{g/mL}$ , Mitoxantrone,  $IC_{50} = 0.29\mu\text{g/mL}$ ; MKN28,  $IC_{50} =$

$0.07\mu\text{g/mL}$ , Mitoxantrone,  $IC_{50} = 0.02\mu\text{g/mL}$ )<sup>[5182]</sup>. Source: HAN SHENG

XIANG CHA CAI *Isodon xerophilus* (leaf). Ref: 894, 4067, 5182.

**22794 Xerophilusin J**

$C_{22}H_{30}O_8$  (422.48). Colorless needles (MeOH), mp 165~166°C,  $[\alpha]_D^{23} = -80.7^\circ$

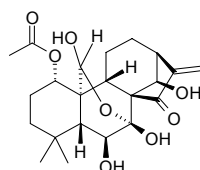
( $c = 0.41$ ,  $C_5H_5N$ ); mp 165~166°C,  $[\alpha]_D^{22.9} = -80.7^\circ$  ( $c = 0.409$ , pyridine).

Pharm: Cytotoxic (K562,  $IC_{50} = 4.26\mu\text{g/mL}$ , control Mitoxantrone,  $IC_{50} =$

$0.29\mu\text{g/mL}$ ; HL-60,  $IC_{50} = 2.08\mu\text{g/mL}$ , Mitoxantrone,  $IC_{50} = 0.29\mu\text{g/mL}$ ;

MKN28,  $IC_{50} = 1.54\mu\text{g/mL}$ , Mitoxantrone,  $IC_{50} = 0.02\mu\text{g/mL}$ )<sup>[5182]</sup>. Source: HAN

SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067, 5182.

**22795 Xerophilusin K**

$C_{22}H_{30}O_7$  (406.48). Colorless needles (MeOH), mp 189~190°C,  $[\alpha]_D^{23} =$

$-44.3^\circ$  ( $c = 0.30$ ,  $C_5H_5N$ ); mp 189~190°C,  $[\alpha]_D^{23} = -44.3^\circ$  ( $c = 0.299$ ,

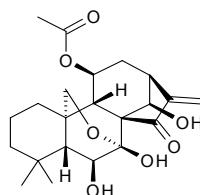
pyridine). Pharm: Cytotoxic (K562,  $IC_{50} = 2.95\mu\text{g/mL}$ , control Mitoxantrone,

$IC_{50} = 0.29\mu\text{g/mL}$ ; HL-60,  $IC_{50} = 2.29\mu\text{g/mL}$ , Mitoxantrone,  $IC_{50} =$

$0.29\mu\text{g/mL}$ ; HCT,  $IC_{50} = 15.35\mu\text{g/mL}$ , Mitoxantrone,  $IC_{50} = 1.54\mu\text{g/mL}$ ;

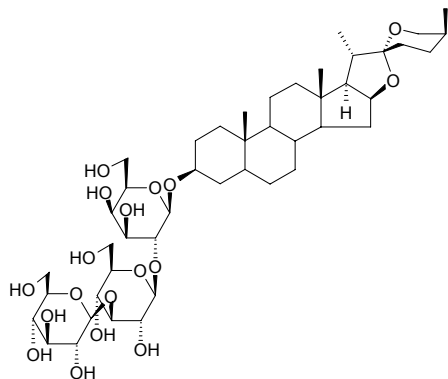
MKN28,  $IC_{50} = 2.23\mu\text{g/mL}$ , Mitoxantrone,  $IC_{50} = 0.02\mu\text{g/mL}$ )<sup>[5182]</sup>. Source:

HAN SHENG XIANG CHA CAI *Isodon xerophilus*. Ref: 4067, 5182.

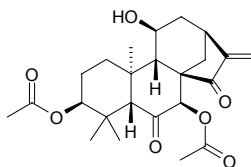


**22796 Xilingsaponin B**

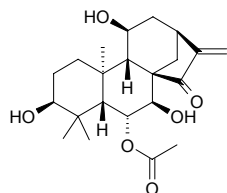
Sarsasapogenin-3-*O*- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 3)- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -*D*-galactopyranoside C<sub>45</sub>H<sub>74</sub>O<sub>18</sub> (903.08). White amorphous powder crystals, mp 178~180°C (dec),  $[\alpha]_D^{20} = -22.96^\circ$  ( $c = 0.6$ , MeOH). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 679.

**22797 Xindongnin A**

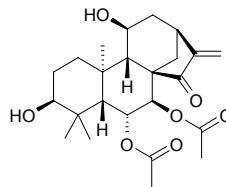
C<sub>24</sub>H<sub>32</sub>O<sub>7</sub> (432.52). mp 212~214°C,  $[\alpha]_D^{13} = -44.2^\circ$  ( $c = 0.86$ , C<sub>5</sub>H<sub>5</sub>N),  $[\alpha]_D^{25.7} = -11.8^\circ$  ( $c = 0.338$ , MeOH). Pharm: Cytotoxic (hmn tumor K562 cells, IC<sub>50</sub> = 0.9 μg/mL, control *cis*-Platin IC<sub>50</sub> = 1.1 μg/mL)<sup>[4299,4955]</sup>. Source: DONG LING CAO *Rabdosia rubescens*. Ref: 4067, 4299, 4955.

**22798 Xindongnin B**

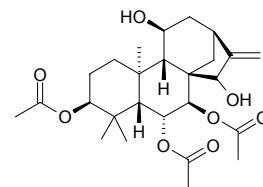
C<sub>22</sub>H<sub>32</sub>O<sub>6</sub> (392.50). mp 269~271°C,  $[\alpha]_D = -72.5^\circ$  ( $c = 0.69$ , C<sub>5</sub>H<sub>5</sub>N),  $[\alpha]_D^{25.8} = -67.8^\circ$  ( $c = 0.369$ , MeOH). Pharm: Cytotoxic (hmn tumor K562 cells, IC<sub>50</sub> = 1.2 μg/mL, control *cis*-Platin IC<sub>50</sub> = 1.1 μg/mL)<sup>[4299,4955]</sup>; cytotoxic (*in vitro*, BGC823 hmn tumor cells, IC<sub>50</sub> = 9.45 μg/mL, control VCR, IC<sub>50</sub> = 0.066 μg/mL)<sup>[4760]</sup>. Source: BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.0026% dw)<sup>[4760]</sup>, DONG LING CAO *Rabdosia rubescens*. Ref: 4067, 4299, 4760, 4955.

**22799 Xindongnin C**

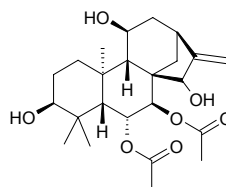
C<sub>24</sub>H<sub>34</sub>O<sub>7</sub> (434.53). Colorless crystals (MeOH), mp 304~306°C,  $[\alpha]_D^{21.7} = -72.5^\circ$  ( $c = 0.401$ , acetone). Pharm: Cytotoxic (hmn tumor K562 cells, IC<sub>50</sub> = 5.6 μg/mL, control *cis*-Platin IC<sub>50</sub> = 1.1 μg/mL). Source: DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4955.

**22800 Xindongnin D**

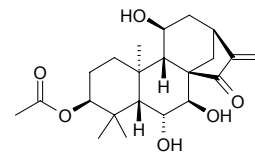
C<sub>26</sub>H<sub>38</sub>O<sub>8</sub> (478.59). White amorphous powder,  $[\alpha]_D^{22} = -9.26^\circ$  ( $c = 0.108$ , acetone). Pharm: Cytotoxic inactive (hmn tumor K562 cells). Source: DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4955.

**22801 Xindongnin E**

C<sub>24</sub>H<sub>36</sub>O<sub>7</sub> (436.55). White amorphous powder,  $[\alpha]_D^{24.5} = -3.1^\circ$  ( $c = 0.324$ , MeOH). Pharm: Cytotoxic inactive (hmn tumor K562 cells). Source: DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4955.

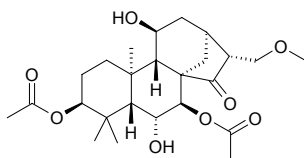
**22802 Xindongnin F**

C<sub>22</sub>H<sub>32</sub>O<sub>6</sub> (392.90). White amorphous powder,  $[\alpha]_D^{22} = -17.0^\circ$  ( $c = 0.470$ , MeOH). Pharm: Cytotoxic (hmn tumor K562 cells, IC<sub>50</sub> = 7.3 μg/mL, control *cis*-Platin, IC<sub>50</sub> = 1.1 μg/mL). Source: DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4955.

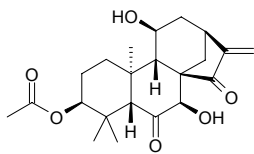


**22803 Xindongnin G**

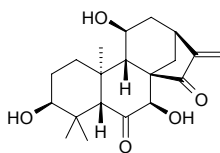
$C_{25}H_{38}O_8$  (466.58). White amorphous powder,  $[\alpha]_D^{22.2} = -17.0^\circ$  ( $c = 0.470$ , MeOH). **Pharm:** Cytotoxic inactive (hmn tumor K562 cells). **Source:** DONG LING CAO *Rabdosia rubescens* (leaf). **Ref:** 4955.

**22804 Xindongnin H**

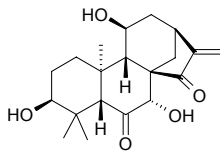
$C_{22}H_{30}O_6$  (390.48). White amorphous powder,  $[\alpha]_D^{25} = -11.6^\circ$  ( $c = 0.30$ , MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22805 Xindongnin I**

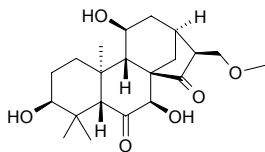
$C_{26}H_{28}O_5$  (348.44). White amorphous powder,  $[\alpha]_D^{25} = -51.6^\circ$  ( $c = 0.19$ , MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22806 Xindongnin J**

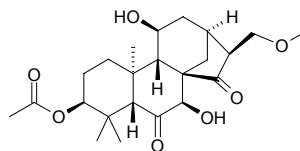
$C_{20}H_{28}O_5$  (348.44). White amorphous powder,  $[\alpha]_D^{25} = -54.1^\circ$  ( $c = 0.22$ , MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22807 Xindongnin K**

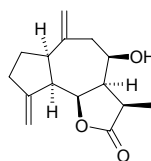
$C_{21}H_{32}O_6$  (380.49). White amorphous powder,  $[\alpha]_D^{25} = -30.7^\circ$  ( $c = 0.29$ , MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22808 Xindongnin L**

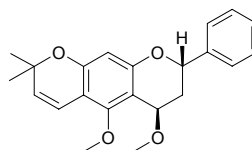
$C_{23}H_{34}O_7$  (422.52). White amorphous powder,  $[\alpha]_D^{25} = -11.8^\circ$  ( $c = 0.21$ , MeOH). **Source:** DONG LING CAO *Rabdosia rubescens*. **Ref:** 4299.

**22809 Xuelianlactone**

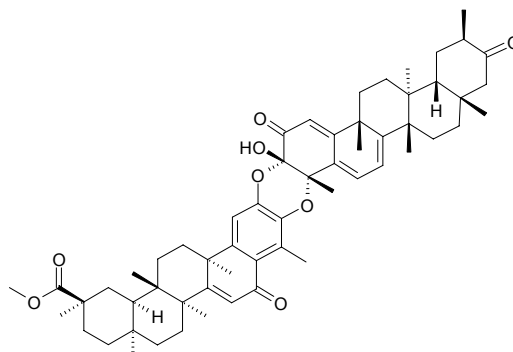
$C_{15}H_{20}O_3$  (248.32). Colorless acicular crystals, mp 129–131°C,  $[\alpha]_D = +32.34^\circ$ . **Source:** XUE LIAN *Saussurea involucrata*. **Ref:** 62.

**22810 Xuulanin**

4 $\beta$ ,5-Dimethoxy-6''-dimethyl-2H-pyrano-(2'',3'':7,6)-flavan  $C_{22}H_{24}O_4$  (352.43). Yellow oil. **Source:** *Lonchocarpus xuul* (stem cortex). **Ref:** 3973.

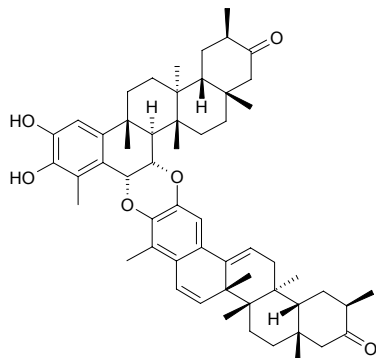
**22811 Xuxuarine Fa**

$C_{58}H_{74}O_8$  (899.23). Yellow amorphous solid. **Source:** QIU SHI MEI DENG *Maytenus chuchuhuasca*(bark). **Ref:** 4295.

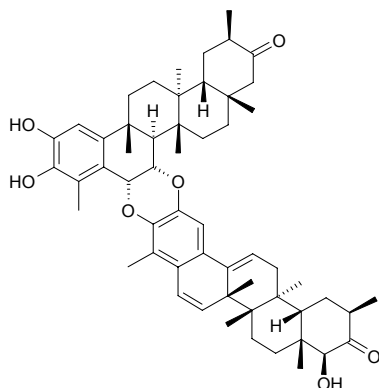


**22812 Xuxuasin A**

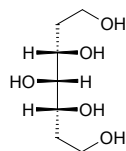
$C_{56}H_{72}O_6$  (841.19). Colorless amorphous solid. Source: QIU SHI MEI DENG *MU Maytenus chuchuhuasca*. Ref: 2586.

**22813 Xuxuasin B**

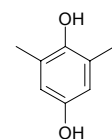
$C_{56}H_{72}O_7$  (857.19). Colorless amorphous solid. Source: QIU SHI MEI DENG *MU Maytenus chuchuhuasca*. Ref: 2586.

**22814 Xylitol**

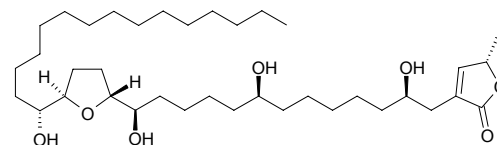
Klinit [87-99-0]  $C_7H_{16}O_5$  (180.20). mp 93–94°C, bp 215–217°C/1mmHg. Source: MO GU *Agaricus campestris*. Ref: 6.

**22815 m-Xylohydroquinone**

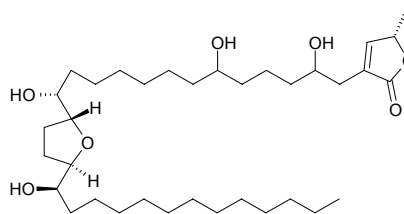
[654-42-2]  $C_8H_{10}O_2$  (138.16). Acicular crystals (dimethyl benzene), mp 149–150°C. Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 62.5 µg/mL; *Enterococcus* sp., MIC = 62.5 µg/mL; *Bacillus typhosus*, MIC = 500 µg/mL); anti-fertility agent (rat); pesticide. Source: WAN DOU *Pisum sativum*. Ref: 661.

**22816 Xylomaticin**

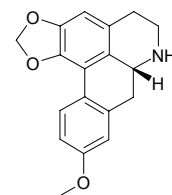
[155969-86-1]  $C_{37}H_{68}O_7$  (624.95). Source: CI GUO FAN LI ZHI *Annona muricata* (seed: yield = 0.0015%dw), FANG XIANG MU BAN SHU *Xylopiya aromatica*. Ref: 1521, 4617.

**22817 Xylopianan**

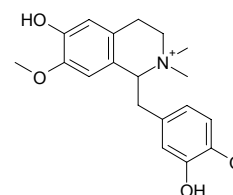
$C_{35}H_{64}O_7$  (596.90). Source: FANG XIANG MU BAN SHU *Xylopiya aromatica*, SHAN FAN LI ZHI *Annona montana* (seed). Ref: 1521, 5035.

**22818 Xylopine**

*O*-Methylanolobine [517-71-5]  $C_{18}H_{17}NO_3$  (295.34). mp 124–125°C,  $[\alpha]_D^{25} = -23.4^\circ$  ( $c = 1.92$ , methanol);  $[\alpha]_D^{22} = -28.18^\circ$  ( $c = 0.001$ , MeOH). Pharm: Adrenergic  $\alpha_1$ -receptor blocker; analgesic; antibacterial (*Bacillus cereus*, *Micrococcus* sp., *Staphylococcus aureus*); antimalarial (*Plasmodium falciparum*, chloroquine-sensitive strain D6, EC = 440ng/mL, chloroquine-endured strain W2, ED<sub>50</sub> = 2270ng/mL); cytotoxic; CNS depressant; platelet aggregation inhibitor (due to collagen, ADP and arachidonic acid); antileishmanial (*Leishmania panamensis*, IC<sub>50</sub> = (6±0.07) µmol/L, control Amphotericin B, IC<sub>50</sub> = (0.1±0.004) µmol/L; *Leishmania mexicana*, IC<sub>50</sub> = (3±0.27) µmol/L, Amphotericin B, IC<sub>50</sub> = (0.1±0.004) µmol/L; macrophage, IC<sub>50</sub> = (112±0.2) µmol/L, SI = 37.3; HFF, IC<sub>50</sub> = (115±0.1) µmol/L, SI = 38.3)<sup>[5424]</sup>. Source: DA YE GUA TAI MU *Guatteria amplifolia*, NIU XIN FAN LI ZHI *Annona reticulata*, XI SHU MU BAN SHU *Xylopiya discreta*. Ref: 658, 900, 5424.

**22819 Xylopinidine**

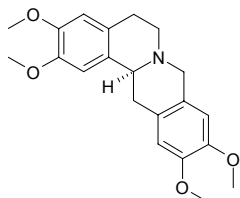
6,7,3',4'-Tetrasubstituted tetrahydrobenzylisoquinoline alkaloid  $C_{20}H_{26}NO_4^+$  (344.43). Colorless amorphous powder,  $[\alpha]_D^{22} = 0^\circ$  ( $c = 0.36$ , MeOH). Source: XIAO HUA MU BAN SHU *Xylopiya parviflora* (bark and root). Ref: 3794.



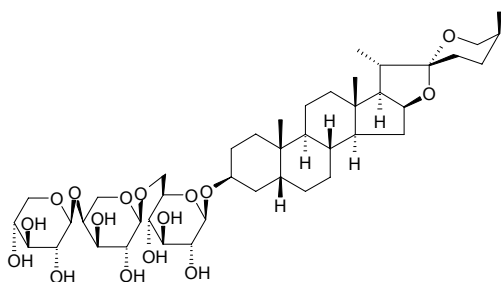


**22820 Xylopinine**

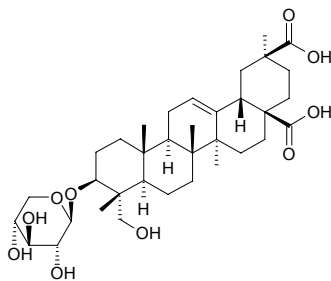
[4126-86-8] C<sub>21</sub>H<sub>25</sub>NO<sub>4</sub> (355.44). Crystals (ethanol), mp 181~182°C, [ $\alpha$ ]<sub>D</sub><sup>15</sup> = -177.2° (*c* = 4.07, chloroform). Pharm: Adrenergic  $\alpha$ -receptor blocker; hypnotic (hypnotic synergism with chloral hydrate, rat, 20mg/kg); LD<sub>50</sub> (mus, sc) = 108mg/kg, LD<sub>50</sub> (mus, iv) = 51.5mg/kg. Source: HUANG YE DI BU RONG *Stephania viridiflavens*. Ref: 661, 658.

**22821 3-O-{\beta-D-Xylopyranosyl(1→4)}[α-L-arabinopyranosyl(1→6)]-β-D-glucopyranosyl-(25S)-5β-spirostan-3β-ol**

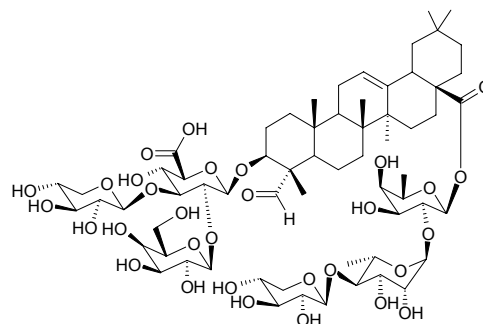
C<sub>43</sub>H<sub>70</sub>O<sub>16</sub> (843.03). [ $\alpha$ ]<sub>D</sub><sup>21</sup> = -28° (*c* = 0.50, MeOH). Source: GE BI TIAN MEN *Asparagus gobicus* (root). Ref: 4975.

**22822 3-O-β-D-Xylopyranosyl-esculentic acid**

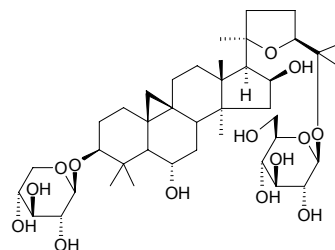
C<sub>35</sub>H<sub>54</sub>O<sub>10</sub> (634.85). White acicular crystals, mp 219~221°C. Source: MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*]. Ref: 169.

**22823 3-O-β-D-Xylopyranosyl-(1→3)-[β-D-galactopyranosyl-(1→2)]-β-D-glucuronopyranosylgypsogenin-28-O-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-β-D-fucopyranoside**

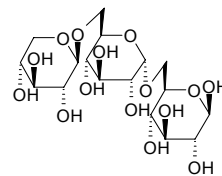
C<sub>64</sub>H<sub>100</sub>O<sub>31</sub> (1365.49). White amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +13° (*c* = 0.10, MeOH). Source: LAO NIU JIN *Arenaria juncea* (root). Ref: 3095.

**22824 3-O-β-D-Xylopyranosyl-25-O-β-D-glucopyranosyl cycloastragenol**

C<sub>41</sub>H<sub>68</sub>O<sub>14</sub> (784.99). Source: MENG GU HUANG QI *Astragalus mongholicus*. Ref: 660.

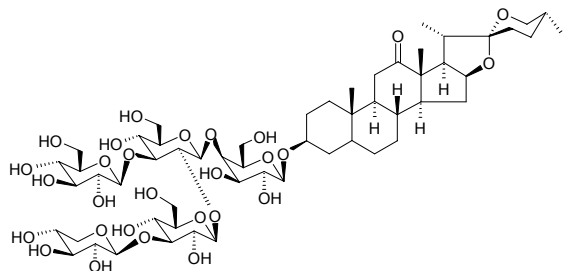
**22825 β-D-Xylopyranosyl-(1→6)-α-D-glucopyranosyl-(1→6)-β-D-glucopyranoside**

C<sub>17</sub>H<sub>30</sub>O<sub>15</sub> (474.42). Colorless powder. Source: XI YANG SHEN *Panax quinquefolium*. Ref: 788.



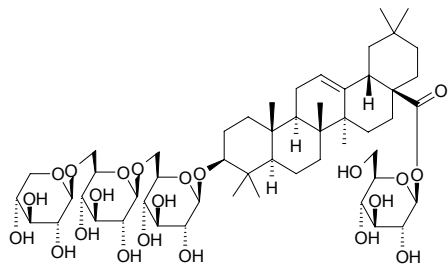
**22826 (25R)-3β-[(O-β-D-Xylopyranosyl-(1→3)-β-D-glucopyranosyl-(1→2)-O-β-D-glucopyranosyl-(1→3)]-O-β-D-glucopyranosyl-(1→4)-β-D-galactopyranosyl]oxy]-5α-spirostan-12-one**

C<sub>56</sub>H<sub>90</sub>O<sub>28</sub> (1211.32). Amorphous solid,  $[\alpha]_D^{26} = -34.0^\circ$  ( $c = 0.10$ , MeOH). **Pharm:** Cytotoxic (*in vitro*, HL-60, IC<sub>50</sub> = 3.9 μg/mL; HSC-2, IC<sub>50</sub> = 7.8 μg/mL; control Etoposide: HL-60, IC<sub>50</sub> = 0.3 μg/mL; HSC-2, IC<sub>50</sub> = 24.4 μg/mL). **Source:** WAN XIANG YU *Polianthes tuberosa* (underground part: yield = 0.0060% dw). **Ref:** 4651.



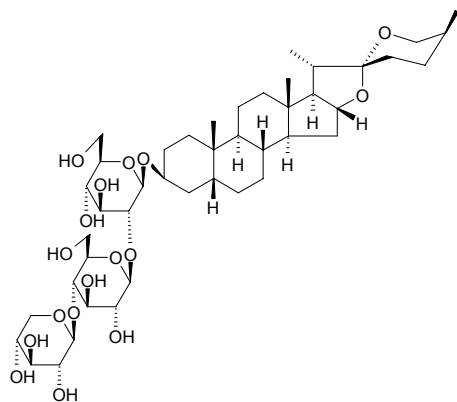
**22827 3-O-β-D-Xylopyranosyl-(1→6)-β-D-glucopyranosyl-(1→6)-β-D-glucopyranosyl oleanolic acid 28-O-β-D-glucopyranosyl ester**

C<sub>53</sub>H<sub>86</sub>O<sub>22</sub> (1075.26). Amorphous powder, mp 212~215°C,  $[\alpha]_D^{20} = -9.6^\circ$  ( $c = 0.2$ , MeOH). **Source:** CHI GENG TENG *Gymnema sylvestre*. **Ref:** 766.



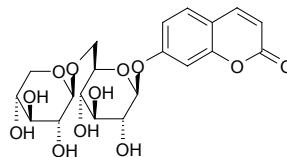
**22828 3-O-β-D-Xylopyranosyl(1→4)-β-D-glucopyranosyl(1→2)-β-D-glucopyranosyl]- (25S)-5β-spirostan-3β-ol**

C<sub>44</sub>H<sub>72</sub>O<sub>17</sub> (873.05). White amorphous powder, mp 274~275°C (MeOH),  $[\alpha]_D^{21} = -40.0^\circ$  ( $c = 0.25$ , C<sub>5</sub>H<sub>5</sub>N). **Pharm:** Cytotoxic (*in vitro*, HO-8910, IC<sub>50</sub> = (5.2±0.1) μmol/L, Vincristine, IC<sub>50</sub> = (25.1±1.9) μmol/L; Bel7405, IC<sub>50</sub> = (5.2±0.3) μmol/L, Vincristine, IC<sub>50</sub> = (31.4±3.4) μmol/L). **Source:** GE BI TIAN MEN *Asparagus gobicus* (root). **Ref:** 4975.



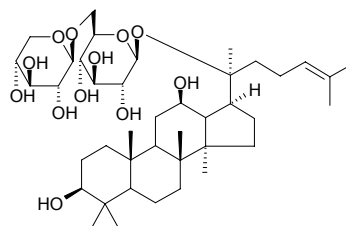
**22829 O-β-D-Xylopyranosyl(1→6)-β-D-glucopyranosyl] 7-hydroxycoumarin**

C<sub>20</sub>H<sub>24</sub>O<sub>12</sub> (456.41). White amorphous powder,  $[\alpha]_D^{26} = -83.4^\circ$  ( $c = 1.0$ , H<sub>2</sub>O). **Source:** LANG DU *Stellera chamaejasme*. **Ref:** 4159.



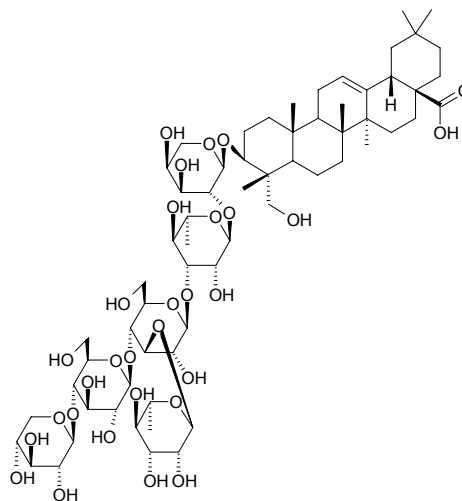
**22830 20-O-β-D-Xylopyranosyl(1→6)-β-D-glucopyranosyl-20(S)-protopanaxadiol**

C<sub>41</sub>H<sub>70</sub>O<sub>12</sub> (755.01). Amorphous powder (MeOH-EtOAc), mp 162.5~165°C,  $[\alpha]_D^{24} = +12.6^\circ$  ( $c = 0.3$ , MeOH). **Pharm:** Cytotoxic and partial reversal of doxorubicin resistance (hmn breast cancer cell line MCF7, IC<sub>50</sub> = (48.5±7.27) μg/mL, resistant subline MCF7/ADM, IC<sub>50</sub> = (58.2±8.57) μg/mL). **Source:** SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (leaf). **Ref:** 4433.

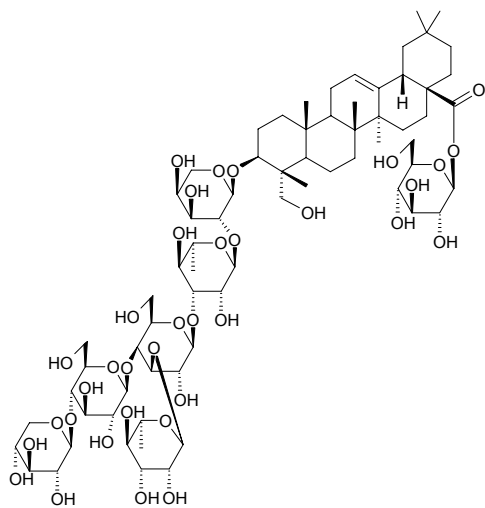


**22831 3-O-β-D-Xylopyranosyl (1→4)-β-D-glucopyranosyl (1→4)]-α-L-rhamnopyranosyl (1→3)-β-D-glucopyranosyl (1→3)-α-L-rhamnopyranosyl (1→2)-α-L-arabinopyranosyl hederagenin**

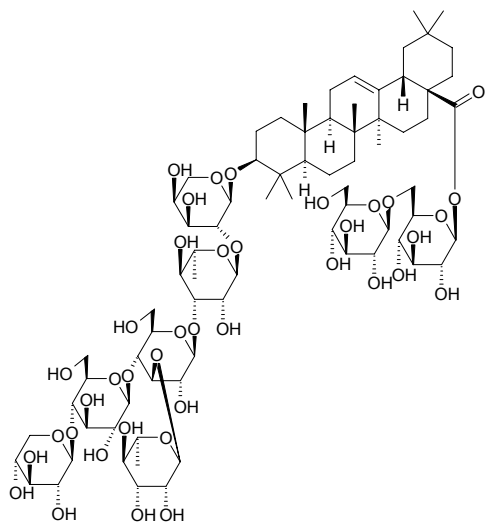
C<sub>64</sub>H<sub>104</sub>O<sub>30</sub> (1353.52). **Source:** CHUAN XU DUAN *Dipsacus asperoides*. **Ref:** 660.



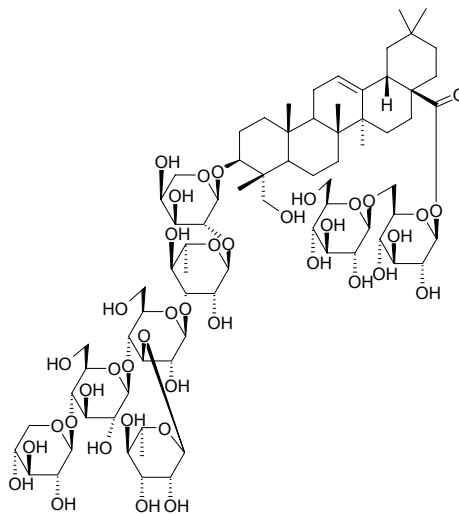
**22832** 3-*O*-[ $\beta$ -*D*-Xylopyranosyl(1 $\rightarrow$ 4)- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 4)] [ $\alpha$ -*L*-rhamnopyranosyl(1 $\rightarrow$ 3)]- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 3)- $\alpha$ -*L*-rhamnopyranosyl(1 $\rightarrow$ 2)- $\alpha$ -*L*-arabinopyranosyl hederagenin-28-*O*- $\beta$ -*D*-glucopyranoside  
 $C_{70}H_{114}O_{35}$  (1515.67). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 660.



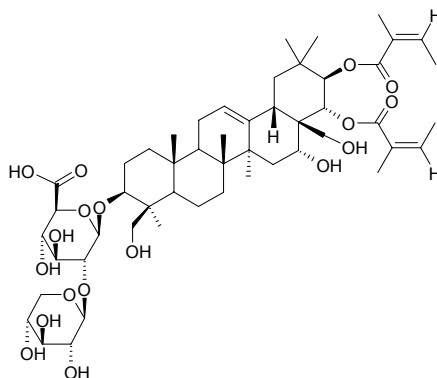
**22833** 3-*O*-[ $\beta$ -*D*-Xylopyranosyl(1 $\rightarrow$ 4)- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 4)] [ $\alpha$ -*L*-rhamnopyranosyl(1 $\rightarrow$ 3)]- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 3)- $\alpha$ -*L*-rhamnopyranosyl(1 $\rightarrow$ 2)- $\alpha$ -*L*-arabinopyranosyl oleanolic acid-28-*O*- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranoside  
 $C_{76}H_{124}O_{39}$  (1661.81). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 660.



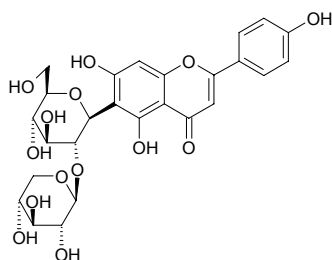
**22834** 3-*O*-[ $\beta$ -*D*-Xylopyranosyl(1 $\rightarrow$ 4)- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 4)] [ $\alpha$ -*L*-rhamnopyranosyl(1 $\rightarrow$ 3)]- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 3)- $\alpha$ -*L*-rhamnopyranosyl(1 $\rightarrow$ 2)- $\alpha$ -*L*-arabinopyranosyl hederagenin-28-*O*- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranoside  
 $C_{76}H_{124}O_{40}$  (1677.81). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 660.



**22835** 3-*O*- $\beta$ -*D*-Xylopyranosyl(1 $\rightarrow$ 2)- $\beta$ -*D*-glucuronopyranosyl-21 $\beta$ ,22 $\alpha$ -di-*O*-angeloylprotoaescigenin  
 $C_{51}H_{78}O_{18}$  (979.18).  $[\alpha]_D^{21} = -3.76^\circ$  ( $c = 0.13$ , MeOH). Source: NAN SU GE LAN JIA SHAN LUO *Harpullia austro-caledonica* (stem cortex). Ref: 5269.

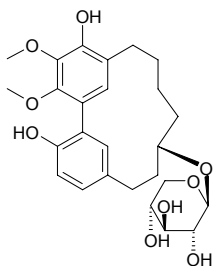


**22836** 2''-*O*- $\beta$ -*D*-Xylopyranosylisovitexin  
 $C_{26}H_{28}O_{14}$  (564.50).  $[\alpha]_D^{27} = -22.3^\circ$  ( $c = 1.03$ , pyridine). Source: RI BEN SHUANG HU DIE *Tripterospermum japonicum*. Ref: 3533.

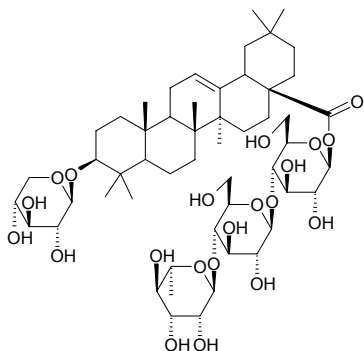


**22837 11-O-β-D-Xylopyranosylmyricanol**

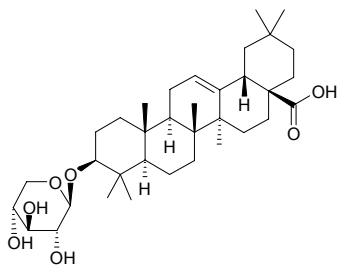
C<sub>26</sub>H<sub>34</sub>O<sub>9</sub> (490.56). Colorless needles (CH<sub>2</sub>Cl<sub>2</sub>), mp 229–231°C, [α]<sub>D</sub><sup>22</sup> = –46° (c = 0.55, MeOH). **Source:** QIAO MU ZHUANG YANG MEI *Myrica arborea* (stem and root cortex). **Ref:** 5079.

**22838 3β-D-O-(β-D-Xylopyranosyl)-olean-12-ene-28-O-(α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→4)-β-D-glucopyranosyl) ester**

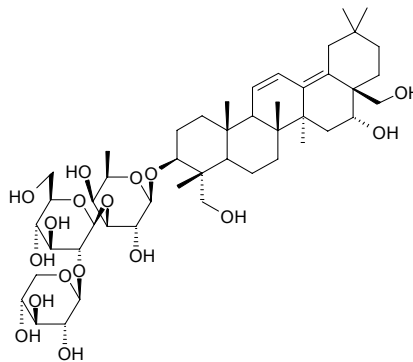
C<sub>53</sub>H<sub>86</sub>O<sub>21</sub> (1059.26). White powder, [α]<sub>D</sub><sup>25</sup> = +68°, (c = 1, MeOH). **Pharm:** Cytotoxic (antiproliferative *in vitro*: J774.A1 cell line, IC<sub>50</sub> = 0.52 μmol/L, HEK-293 cell line, IC<sub>50</sub> = 1.3 μmol/L, WEHI-164 cell line, IC<sub>50</sub> = 2.1 μmol/L; control 6-Mercaptopurine, J774.A1 cell line, IC<sub>50</sub> = 0.003 μmol/L, HEK-293 cell line, IC<sub>50</sub> = 0.007 μmol/L, WEHI-164 cell line, IC<sub>50</sub> = 0.015 μmol/L). **Source:** YUAN YE E ZHANG CHAI *Schefflera rotundifolia* (aerial parts). **Ref:** 5036.

**22839 3-O-β-D-Xylopyranosyloleanolic acid**

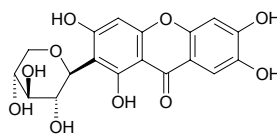
C<sub>35</sub>H<sub>56</sub>O<sub>7</sub> (588.83). **Pharm:** Cytotoxic (A2780, IC<sub>50</sub> = (8.9±0.6) μg/mL; control Actinomycin D, IC<sub>50</sub> = 2–5 ng/mL). **Source:** ZHUN GE ER LAN PEN HUA *Scabiosa soongorica*, *Dialium guineense*. **Ref:** 5397.

**22840 2''-O-β-D-Xylopyranosylsaikosaponin b<sub>2</sub>**

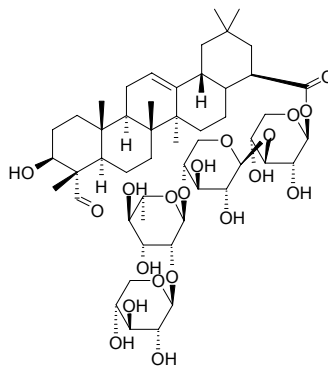
C<sub>47</sub>H<sub>76</sub>O<sub>17</sub> (913.12). **Source:** WEN CHUAN CHAI HU *Bupleurum wenchuanense*. **Ref:** 2247.

**22841 2-C-β-D-Xylopyranosyl-1,3,6,7-tetrahydroxyxanthone**

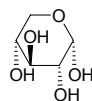
C<sub>18</sub>H<sub>16</sub>O<sub>10</sub> (392.32). **Source:** KUO YE GU SUI BU *Davallia solida*. **Ref:** 2422.

**22842 β-D-Xylopyranosyl-(1→3)-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-β-D-xylopyranosyl gypsogenin**

C<sub>51</sub>H<sub>80</sub>O<sub>20</sub> (1013.19). White crystals, mp 210–215°C. **Source:** XIN YE CHI BO *Thladiantha cordifolia*. **Ref:** 425.

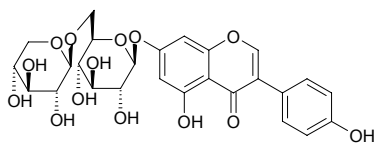
**22843 Xylose**

*D*-Xylose [58-86-6] C<sub>5</sub>H<sub>10</sub>O<sub>5</sub> (150.13). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula*, GUAN HUA DANG SHEN *Codonopsis tubulosa*, HUI MAO DANG SHEN *Codonopsis canescens*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], QIU HUA DANG SHEN *Codonopsis subglobosa*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], XIA YE XIANG PU *Typha angustifolia*. **Ref:** 2, 660.

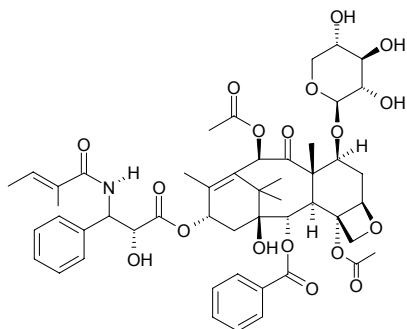


**22844 6''-β-D-Xylose-genistin**

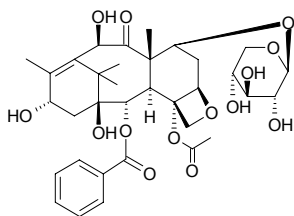
C<sub>26</sub>H<sub>28</sub>O<sub>14</sub> (564.50). Amaranth powder, easily soluble in methanol and alcohol, soluble in water. Source: HEI DA DOU *Glycine max*. Ref: 2457.

**22845 7-(β-Xylosyl)cephalomannine**

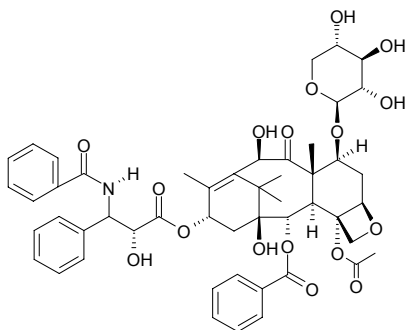
[90352-19-5] C<sub>50</sub>H<sub>61</sub>NO<sub>18</sub> (964.04). [α]<sub>D</sub> = -26° (pyridine). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**22846 7-(β-Xylosyl)-10-deacetylbaaccatin III**

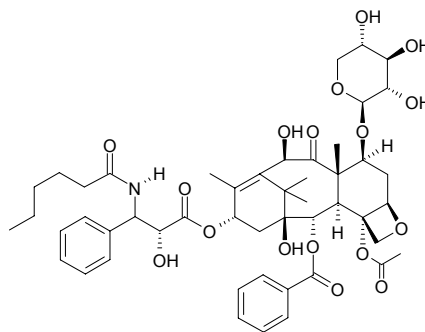
C<sub>34</sub>H<sub>44</sub>O<sub>14</sub> (676.72). White crystalline powder, mp 244~246°C (methanol), [α]<sub>D</sub><sup>30</sup> = -26.9° (methanol). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 296, 662.

**22847 7-(β-Xylosyl)-10-deacetyltaxol**

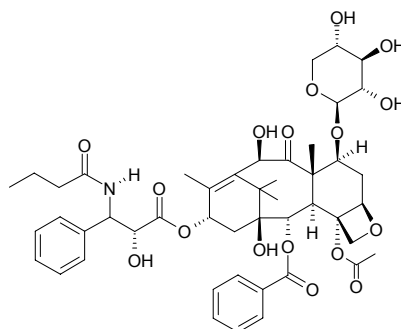
C<sub>50</sub>H<sub>57</sub>NO<sub>17</sub> (944.01). [α]<sub>D</sub> = -2° (pyridine), mp 246~248°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**22848 7-(β-Xylosyl)-10-deacetyltaxol C**

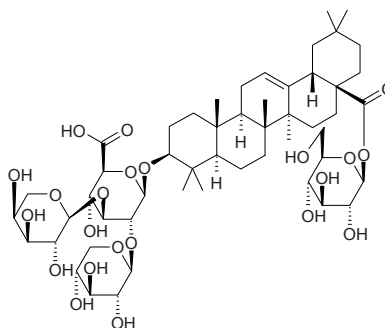
C<sub>49</sub>H<sub>63</sub>NO<sub>17</sub> (938.04). [α]<sub>D</sub> = +3° (pyridine), mp 215~217°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

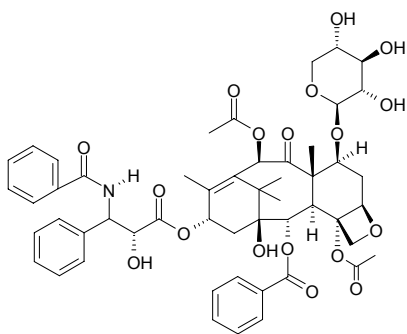
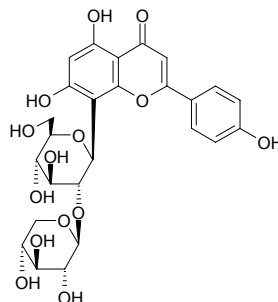
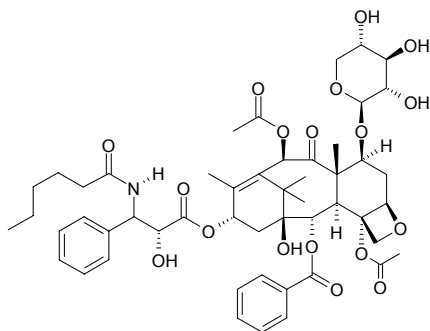
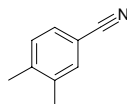
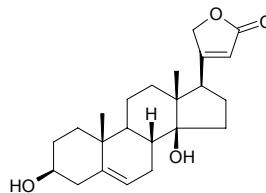
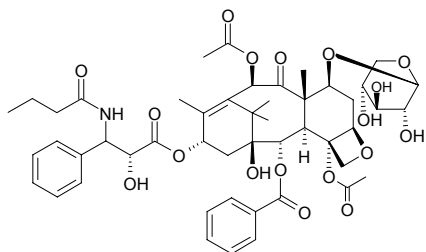
**22849 7-(β-xylosyl)-10-deacetyltaxol D**

[172486-23-6] C<sub>47</sub>H<sub>59</sub>NO<sub>17</sub> (909.99). [α]<sub>D</sub> = -14.3° (MeOH). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**22850 3-O-[(2'-O-Xylosyl)-(3'-O-arabinosyl)]-glucuronyloleanolic acid-28-O-β-D-glucopyranoside**

C<sub>52</sub>H<sub>82</sub>O<sub>22</sub> (1059.22). Source: HOU TOU JUN *Hericium erinaceus* [Syn. *Hydnum erinaceus*]. Ref: 660.

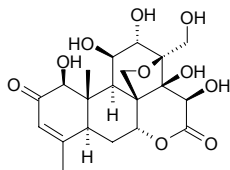


**22851 7-( $\beta$ -Xylosyl)taxol**[90332-66-4] C<sub>52</sub>H<sub>59</sub>NO<sub>18</sub> (986.05). [ $\alpha$ ]<sub>D</sub> = -23° (pyridine), mp 236~238°C.Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.**22854 O-D-Xylosylvitexin**C<sub>26</sub>H<sub>28</sub>O<sub>14</sub> (564.50). mp 210°C. Source: TIAN CHENG *Citrus sinensis*. Ref: 6.**22852 7-( $\beta$ -Xylosyl)taxol C**[90332-67-5] C<sub>51</sub>H<sub>65</sub>NO<sub>18</sub> (980.08). [ $\alpha$ ]<sub>D</sub> = -4° (pyridine), mp 229~231°C.Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.**22855 Xylylic acid nitrile**[22884-95-3] C<sub>9</sub>H<sub>9</sub>N (131.18). mp 66°C. Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6.**22856 Xysmalogenin**C<sub>23</sub>H<sub>32</sub>O<sub>4</sub> (372.51). Crystals, mp 235~237°C, [ $\alpha$ ]<sub>D</sub><sup>22</sup> = 21° (c = 0.8, EtOH).Source: XIANG JIA PI *Periploca sepium*. Ref: 660, 1521, 2498.**22853 7-( $\beta$ -Xylosyl)taxol D**C<sub>49</sub>H<sub>61</sub>NO<sub>18</sub> (952.03). White powder, [ $\alpha$ ]<sub>D</sub><sup>28</sup> = -25.0° (c = 0.25, MeOH).Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). Ref: 5188.

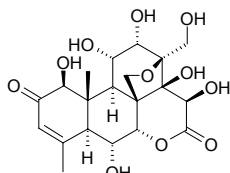
## Y

**22857 Yadanzliolide A**

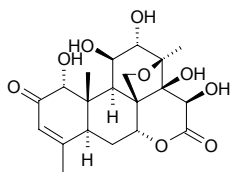
$C_{20}H_{26}O_{11}$  (426.42). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00018%dw). **Ref:** 660, 4748.

**22858 Yadanzliolide B**

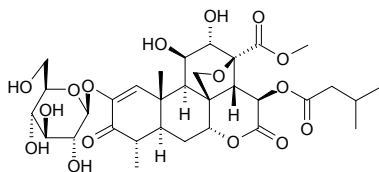
$C_{20}H_{26}O_{11}$  (442.42). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 660.

**22859 Yadanzliolide C**

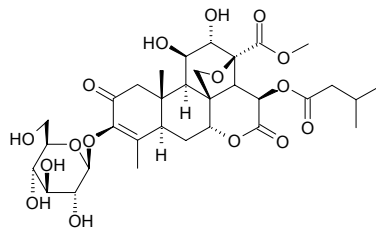
[95258-12-1]  $C_{20}H_{26}O_9$  (410.42). Colorless prismatic crystals (methanol–diethyl ether), mp 292–297°C (dec),  $[\alpha]_D^{23} = +29^\circ$  ( $c = 1.2$ , methanol). **Pharm:** Induces cell differentiation (hmn premyelocytic leukemia and HL-60,  $ED_{50} = 0.6\mu\text{g/mL}$ ). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000015%dw)<sup>[4748]</sup>. **Ref:** 660, 935, 1108, 4748.

**22860 Yadanzioside A**

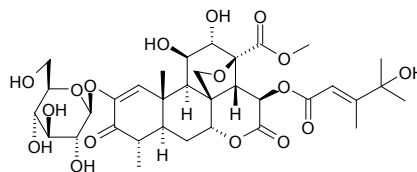
2-*O*-( $\beta$ -*D*-Glucosyl) brucein A [95258-15-4]  $C_{32}H_{44}O_{16}$  (684.69). Amorphous solid, mp 200–204°C (dec),  $[\alpha]_D^{26} = +3^\circ$  ( $c = 1.8$ , ethanol). **Pharm:** Antineoplastic (mouse  $P_{388}$ , 10mg/kg, biotic prolonged rate = 7.1%); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (dried fruit: content scope = 0.5%–1.43%<sup>[5501]</sup>, mean content = 0.96%<sup>[5508]</sup>). **Ref:** 660, 937, 4748, 5501, 5508.

**22861 Yadanzioside B**

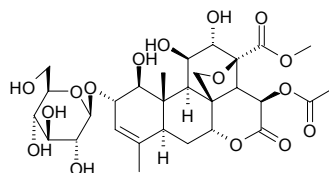
3-*O*-( $\beta$ -*D*-Glucopyranosyl) brucein A [95258-18-7]  $C_{32}H_{44}O_{16}$  (684.69). Amorphous solid, mp 189–195°C (dec),  $[\alpha]_D^{26} = -8.1^\circ$  ( $c = 0.84$ , ethanol). **Pharm:** Antineoplastic (mouse  $P_{388}$ , 10mg/kg, biotic prolonged rate = 4.1%); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0007%dw)<sup>[4748]</sup>. **Ref:** 660, 937, 4748.

**22862 Yadanzioside C**

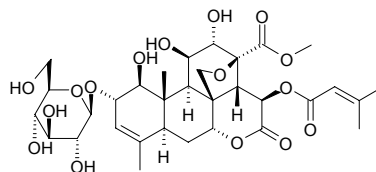
2-*O*-( $\beta$ -*D*-Glucopyranosyl) brucein C [95258-16-5]  $C_{34}H_{46}O_{17}$  (726.73). Amorphous solid, mp 204–209°C (dec),  $[\alpha]_D^{26} = +20^\circ$  ( $c = 0.92$ , ethanol). **Pharm:** Antineoplastic (mouse  $P_{388}$ , 10mg/kg, biotic prolonged rate = 2.0%); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00013%dw)<sup>[4748]</sup>. **Ref:** 660, 937, 4748.

**22863 Yadanzioside D**

[95258-19-8]  $C_{29}H_{40}O_{16}$  (644.63). Amorphous solid, mp 207–212°C (dec),  $[\alpha]_D^{20} = +38^\circ$  ( $c = 0.98$ , ethanol). **Pharm:** Antineoplastic (mouse  $P_{388}$ , 10mg/kg, biotic prolonged rate = 9.2%); antiviral. **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00039%dw)<sup>[4748]</sup>. **Ref:** 660, 937, 4748.

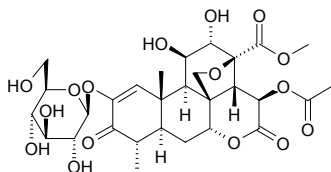
**22864 Yadanzioside E**

[95258-20-1]  $C_{32}H_{44}O_{16}$  (684.70). Amorphous solid, mp 190–195°C (dec),  $[\alpha]_D^{23} = +59^\circ$  ( $c = 1.6$ , ethanol). **Pharm:** Antineoplastic (mouse  $P_{388}$ , 10mg/kg, biotic prolonged rate = 7.1%). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0011%dw)<sup>[4748]</sup>. **Ref:** 660, 937, 4748.

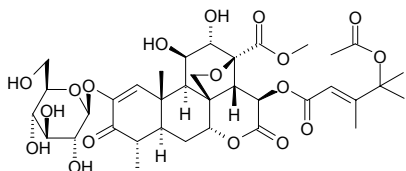


**22865 Yadanzioideside F**

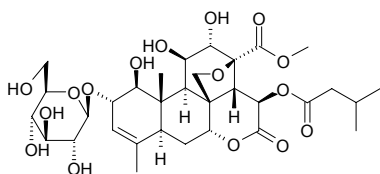
2-*O*-( $\beta$ -*D*-Glucosyl) brucein B [95258-11-0] C<sub>29</sub>H<sub>38</sub>O<sub>16</sub> (642.61). White powder (methanol), mp 190–195°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +8.2° (c = 1.1, methanol). **Pharm:** Antineoplastic (mouse P<sub>388</sub>); insect antifeedant (*Plutella xylostella*); reduces normal body temperature of mus. **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0011%dw)<sup>[4748]</sup>. **Ref:** 660, 900, 4748.

**22866 Yadanzioideside G**

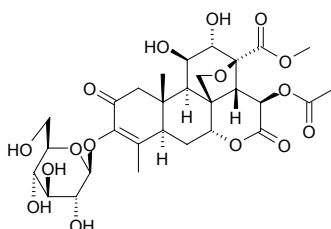
2-*O*-( $\beta$ -*D*-Glucopyranosyl) bruceantolin [95258-17-6] C<sub>36</sub>H<sub>48</sub>O<sub>18</sub> (768.77). Amorphous solid, mp 180–185°C (dec), [ $\alpha$ ]<sub>D</sub><sup>22</sup> = +19° (c = 1.2, ethanol). **Pharm:** Antineoplastic (mouse P<sub>388</sub>, 10mg/kg, biotic prolonged rate = 4.1%); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0155%dw). **Ref:** 660, 937, 4748.

**22867 Yadanzioideside H**

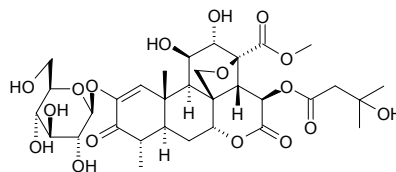
C<sub>32</sub>H<sub>46</sub>O<sub>16</sub> (686.71). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 660.

**22868 Yadanzioideside I**

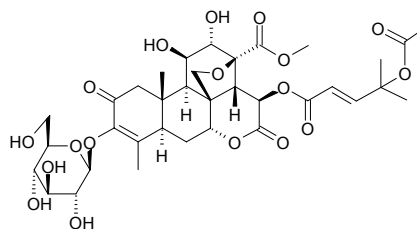
3-*O*-( $\beta$ -*D*-Glucosyl) brucein B [99132-95-3] C<sub>29</sub>H<sub>38</sub>O<sub>16</sub> (642.62). Colorless rhombic crystals (ethanol), mp 287–290°C, [ $\alpha$ ]<sub>D</sub><sup>28</sup> = –21° (c = 1.0, methanol). **Pharm:** Antineoplastic (mouse P<sub>388</sub>). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.0001%dw)<sup>[4748]</sup>. **Ref:** 660, 935, 4748.

**22869 Yadanzioideside J**

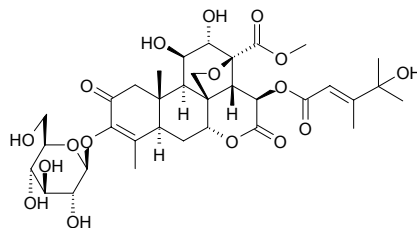
[99132-96-4] C<sub>32</sub>H<sub>44</sub>O<sub>17</sub> (700.69). Amorphous solid, mp 198–202°C, [ $\alpha$ ]<sub>D</sub><sup>22</sup> = –6.4° (c = 2.8, methanol). **Pharm:** Antineoplastic (mouse P<sub>388</sub>). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*]. **Ref:** 660, 935.

**22870 Yadanzioideside K**

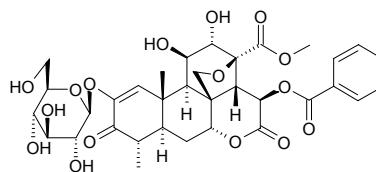
[101559-98-2] C<sub>35</sub>H<sub>46</sub>O<sub>18</sub> (754.75). Crystals (methanol), mp 214.5–216.5°C, [ $\alpha$ ]<sub>D</sub><sup>23</sup> = +15° (c = 1.0, ethanol); [ $\alpha$ ]<sub>D</sub><sup>18</sup> = –31° (c = 0.9, pyridine). **Pharm:** Antineoplastic (mouse P<sub>388</sub>). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00051%dw)<sup>[4748]</sup>. **Ref:** 660, 900, 1521, 4748.

**22871 Yadanzioideside L**

3-*O*-( $\beta$ -*D*-Glucosyl) brucein C [99132-97-5] C<sub>34</sub>H<sub>46</sub>O<sub>17</sub> (726.73). Colorless rhombic crystals (ethanol–diethyl ether), mp 199–204°C, [ $\alpha$ ]<sub>D</sub><sup>26</sup> = –0.7° (c = 6.2, methanol). **Pharm:** Antineoplastic (mouse P<sub>388</sub>); insecticidal (*Plutella xylostella*). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000942%dw)<sup>[4748]</sup>. **Ref:** 660, 935, 4748.

**22872 Yadanzioideside M**

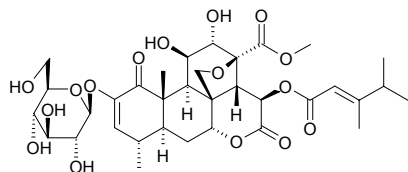
[101559-99-3] C<sub>34</sub>H<sub>40</sub>O<sub>16</sub> (704.69). **Source:** YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00057%dw)<sup>[4748]</sup>. **Ref:** 2, 660, 4748.



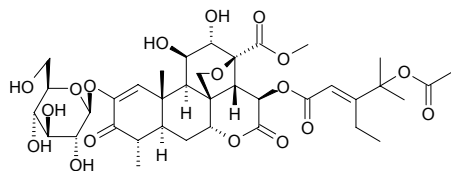


**22873 Yadanzioside N**

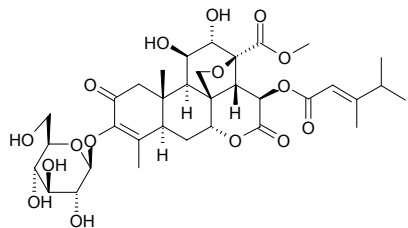
[101560-00-3] C<sub>34</sub>H<sub>46</sub>O<sub>16</sub> (710.74). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.000062%dw)<sup>[4748]</sup>. Ref: 2, 660, 4748.

**22874 Yadanzioside O**

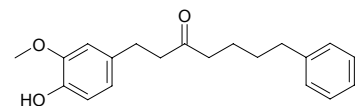
[101560-01-4] C<sub>37</sub>H<sub>50</sub>O<sub>18</sub> (782.80). Source: YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00048%dw)<sup>[4748]</sup>. Ref: 2, 660, 1521, 4748.

**22875 Yadanzioside P**

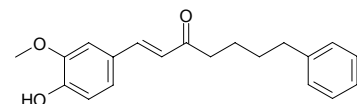
Bruceantioside B [79439-84-2] C<sub>34</sub>H<sub>46</sub>O<sub>16</sub> (710.74). Colorless amorphous powder, mp 193–198°C, mp 200°C (dec), [α]<sub>D</sub><sup>23</sup> = +7.0° (c = 0.57, ethanol); [α]<sub>D</sub><sup>25</sup> = –45° (c = 1.7, pyridine), [α]<sub>D</sub><sup>25</sup> = –3.6° (c = 0.5, pyridine). Pharm: Antineoplastic (mouse P<sub>388</sub>, 5mg/(kg-d), survival rate = 15.5%, 10mg/(kg-d), survival rate = 28.9%). Source: KANG LI YA DAN ZI *Brucea antidysenterica*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (seed: yield = 0.00029%dw)<sup>[4748]</sup>. Ref: 2, 658, 660, 661, 1012, 1064, 4748.

**22876 Yakuchinone A**

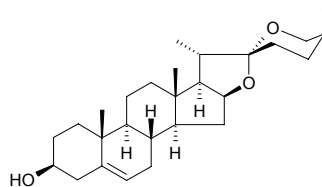
C<sub>20</sub>H<sub>24</sub>O<sub>3</sub> (312.41). Pharm: Anti-inflammatory (NO production inhibitor)<sup>[4415]</sup>. Source: YI ZHI REN *Alpinia oxyphylla*. Ref: 1521, 4415.

**22877 Yakuchinone B**

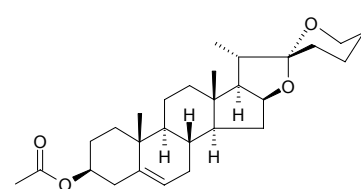
1-4-(Hydroxy-3-methoxyphenyl)-7-phenyl-1-hepten-3-one C<sub>20</sub>H<sub>22</sub>O<sub>3</sub> (310.40). Pharm: Anti-inflammatory (NO production inhibitor)<sup>[4415]</sup>. Source: YI ZHI REN *Alpinia oxyphylla*. Ref: 660, 1521, 4415.

**22878 Yamogenin**

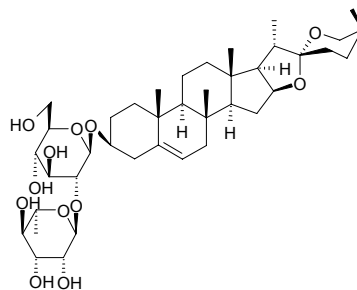
[512-06-1] C<sub>27</sub>H<sub>42</sub>O<sub>3</sub> (414.63). Source: BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*], CHA RUI SHU YU *Dioscorea colletii*, HU LU BA *Trigonella foenum-graecum*, QIAN NIAN BU LAN XIN *Solanum dulcamara*, SHAN BI XIE *Dioscorea tokoro*, XIAN XI SHU YU *Dioscorea gracillima*, XIAO HUA DUN YE SHU YU *Dioscorea parviflora*. Ref: 6, 10, 660.

**22879 Yamogenin acetate**

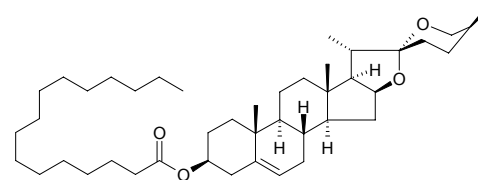
C<sub>29</sub>H<sub>44</sub>O<sub>4</sub> (456.67). Source: BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*]. Ref: 10, 660.

**22880 Yamogenin 3-O-neohesperidoside**

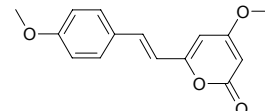
C<sub>40</sub>H<sub>64</sub>O<sub>12</sub> (736.95). Pharm: Molluscicide (*Biomphalaria glabrata* snail, LD<sub>100</sub> = 25mg/L). Source: WEN ZHU *Asparagus setaceus* [Syn. *Asparagus plumosus*]. Ref: 658.

**22881 Yamogenin palmitate**

C<sub>43</sub>H<sub>72</sub>O<sub>4</sub> (653.05). Source: CHA RUI SHU YU *Dioscorea colletii*, BI XIE *Dioscorea hypoglauca* [Syn. *Dioscorea colletii* var. *hypoglauca*]. Ref: 10, 660.

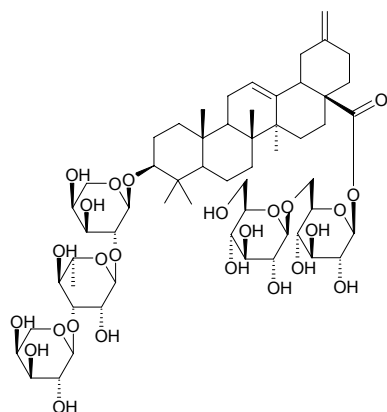
**22882 Yangonin**

[500-62-9] C<sub>15</sub>H<sub>14</sub>O<sub>4</sub> (258.28). Pharm: Antispasmodic. Source: KA WA HU JIAO *Piper methysticum*. Ref: 658.

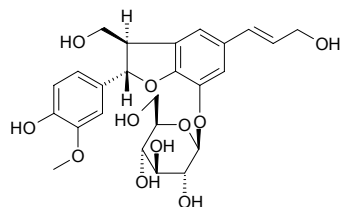


**22883 Yemuoside I**

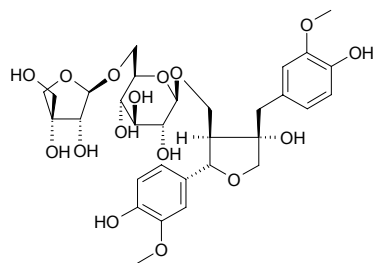
$C_{57}H_{90}O_{25}$  (1175.34). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22884 Yemuoside YM<sub>1</sub>**

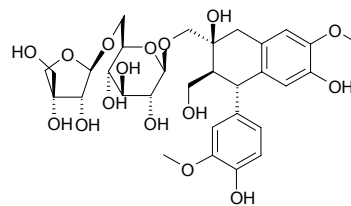
$C_{25}H_{30}O_{11}$  (506.51). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22885 Yemuoside YM<sub>2</sub>**

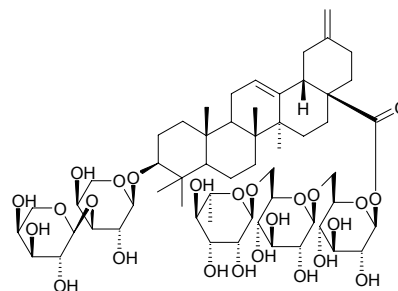
$C_{31}H_{42}O_{16}$  (670.67). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22886 Yemuoside YM<sub>6</sub>**

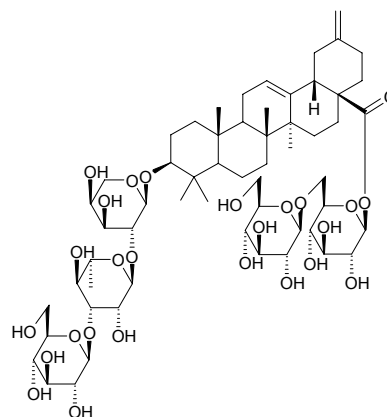
$C_{31}H_{42}O_{16}$  (670.67). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22887 Yemuoside YM<sub>7</sub>**

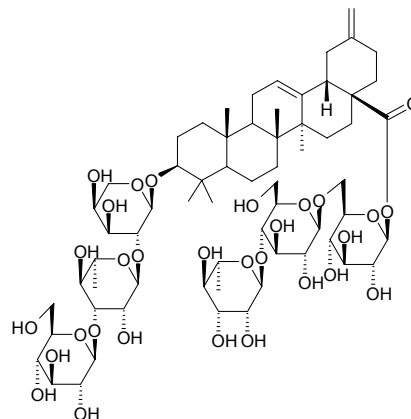
$C_{57}H_{90}O_{25}$  (1175.34). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22888 Yemuoside YM<sub>8</sub>**

$C_{58}H_{92}O_{26}$  (1205.36). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

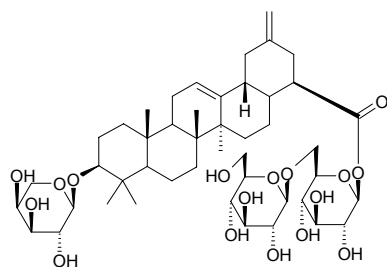
**22889 Yemuoside YM<sub>9</sub>**

$C_{64}H_{102}O_{30}$  (1351.51). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

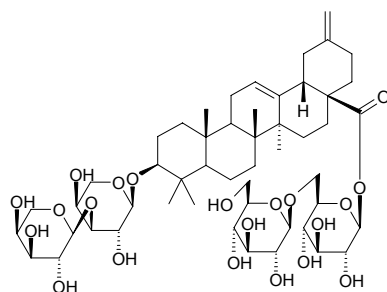


**22890 Yemuoside YM<sub>11</sub>**

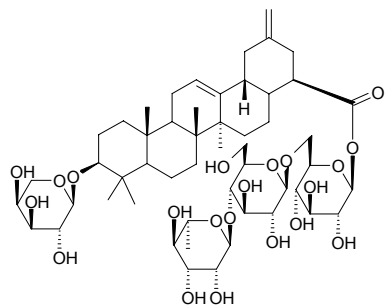
C<sub>46</sub>H<sub>72</sub>O<sub>17</sub> (897.08). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22891 Yemuoside YM<sub>13</sub>**

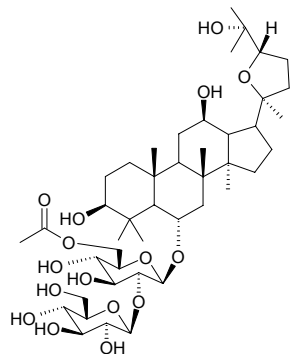
C<sub>51</sub>H<sub>80</sub>O<sub>21</sub> (1029.19). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22892 Yemuoside YM<sub>14</sub>**

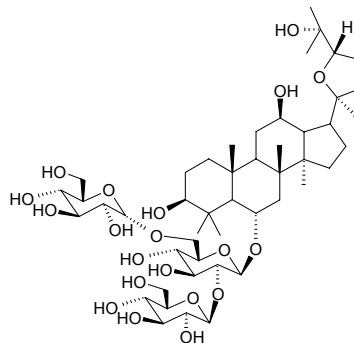
C<sub>52</sub>H<sub>82</sub>O<sub>21</sub> (1043.22). Source: YE MU GUA *Stauntonia chinensis*. Ref: 660.

**22893 Yesanchinoside A**

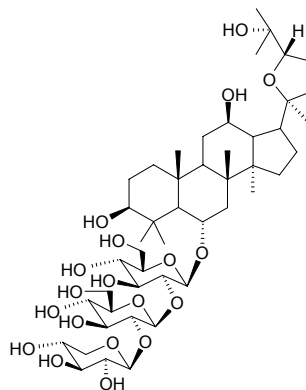
6-*O*-β-*D*-Glucopyranosyl-(1→2)-6-*O*-acetyl-β-*D*-glucopyranosyl 20(*S*),24(*S*)-epoxydammane-3β,6α,12β,25-tetrol C<sub>44</sub>H<sub>74</sub>O<sub>16</sub> (859.07). White amorphous powder, [α]<sub>D</sub><sup>20</sup> = +7.1° (*c* = 0.1, 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.002%dw). Ref: 4610.

**22894 Yesanchinoside B**

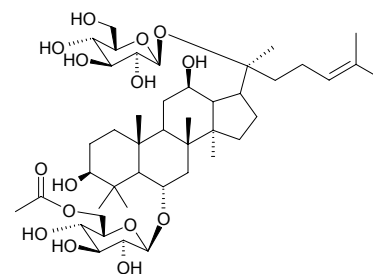
6-*O*-[α-*D*-Glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl-(1→2)-β-*D*-glucopyranosyl 20(*S*),24(*S*)-epoxydammane-3β,6α,12β,25-tetrol C<sub>48</sub>H<sub>82</sub>O<sub>20</sub> (979.18). White amorphous powder, [α]<sub>D</sub><sup>20</sup> = +11.3° (*c* = 0.1, 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0044%dw). Ref: 4610.

**22895 Yesanchinoside C**

6-*O*-β-*D*-Xylopyranosyl-(1→2)-β-*D*-glucopyranosyl-(1→2)-β-*D*-glucopyranosyl 20(*S*),24(*S*)-epoxydammane-3β,6α,12β,25-tetrol C<sub>47</sub>H<sub>80</sub>O<sub>19</sub> (848.15). White amorphous powder, [α]<sub>D</sub><sup>20</sup> = +5.9° (*c* = 0.1, 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0047%dw). Ref: 4610.

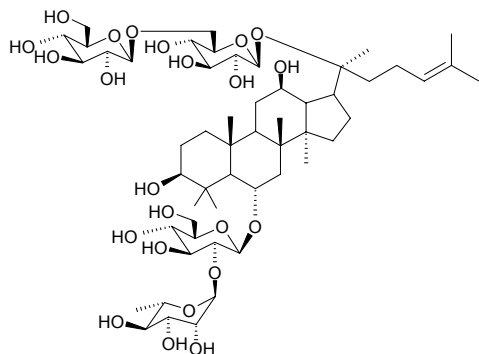
**22896 Yesanchinoside D**

6-*O*-[6-*O*-Acetyl-β-*D*-glucopyranosyl]-20-*O*-(β-*D*-glucopyranosyl)-20(*S*)-propanaxatriol C<sub>44</sub>H<sub>74</sub>O<sub>15</sub> (843.07). White amorphous powder, [α]<sub>D</sub><sup>20</sup> = +13.6° (*c* = 0.1, 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0016%dw). Ref: 4610.

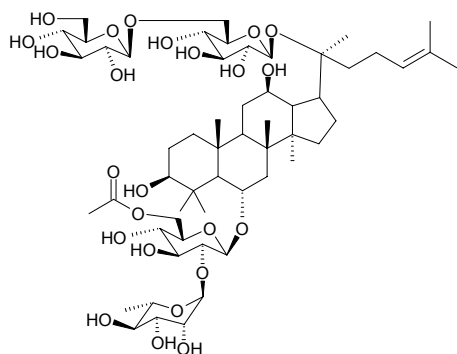


**22897 Yesaninoside E**

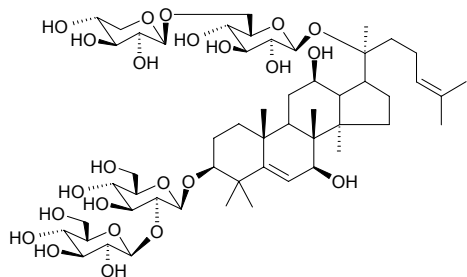
6-*O*-[ $\alpha$ -*L*-Rhamnopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -*D*-glucopyranosyl]-20-*O*-[ $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl]-20(*S*)-protopanaxatriol C<sub>54</sub>H<sub>92</sub>O<sub>23</sub> (1109.32). White amorphous powder,  $[\alpha]_D^{20} = +1.5^\circ$  ( $c = 0.1$ , 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0049%dw). Ref: 4610.

**22898 Yesaninoside F**

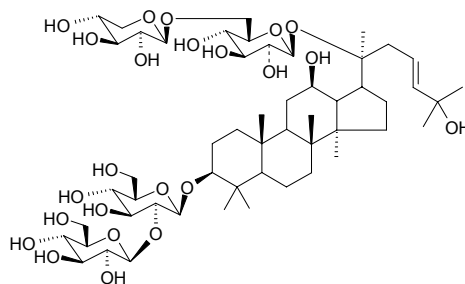
6-*O*-[ $\alpha$ -*L*-Rhamnopyranosyl-(1 $\rightarrow$ 2)-6-*O*-acetyl- $\beta$ -*D*-glucopyranosyl]-20-*O*-[ $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl]-20(*S*)-protopanaxatriol C<sub>56</sub>H<sub>94</sub>O<sub>24</sub> (1151.36). White amorphous powder,  $[\alpha]_D^{20} = +3.3^\circ$  ( $c = 0.1$ , 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0014%dw). Ref: 4610.

**22899 Yesaninoside G**

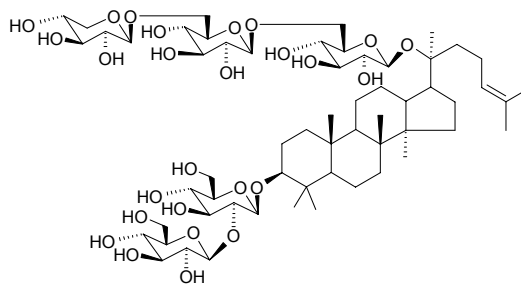
3-*O*-[ $\beta$ -*D*-Glucopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -*D*-glucopyranosyl]-20-*O*-[ $\beta$ -*D*-xylopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl-3 $\beta$ ,7 $\beta$ ,12 $\beta$ ,20(*S*)-tetrahydroxydammar-5,24-diene C<sub>53</sub>H<sub>88</sub>O<sub>23</sub> (1093.28). White amorphous powder,  $[\alpha]_D^{20} = +28.6^\circ$  ( $c = 0.1$ , 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0035%dw). Ref: 4647.

**22900 Yesaninoside H**

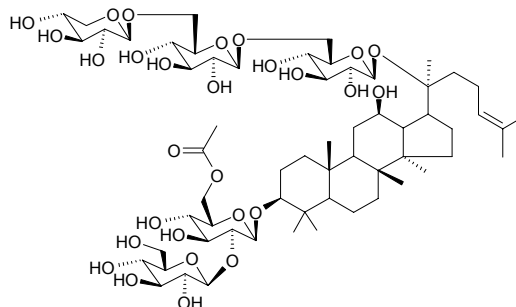
3-*O*-[ $\beta$ -*D*-Glucopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -*D*-glucopyranosyl]-20-*O*-[ $\beta$ -*D*-xylopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl-3 $\beta$ ,12 $\beta$ ,20(*S*),25-tetrahydroxydammar-23-ene C<sub>53</sub>H<sub>90</sub>O<sub>23</sub> (1095.29). White amorphous powder,  $[\alpha]_D^{20} = +35.5^\circ$  ( $c = 0.1$ , 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0014%dw). Ref: 4647.

**22901 Yesaninoside I**

3-*O*-[ $\beta$ -*D*-Glucopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -*D*-glucopyranosyl]-20-*O*-[ $\beta$ -*D*-xylopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl-3 $\beta$ ,20(*S*)-dihydroxy dammar-24-ene C<sub>59</sub>H<sub>100</sub>O<sub>26</sub> (1225.44). White amorphous powder,  $[\alpha]_D^{20} = -2.2^\circ$  ( $c = 0.1$ , 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0017%dw). Ref: 4647.

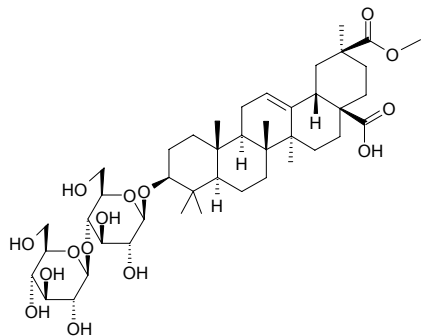
**22902 Yesaninoside J**

3-*O*-[ $\beta$ -*D*-Glucopyranosyl-(1 $\rightarrow$ 2)-6-*O*-acetyl- $\beta$ -*D*-glucopyranosyl]-20-*O*-[ $\beta$ -*D*-xylopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl-3 $\beta$ ,12 $\beta$ ,20(*S*)-trihydroxydammar-24-ene C<sub>61</sub>H<sub>102</sub>O<sub>28</sub> (1283.48). White amorphous powder,  $[\alpha]_D^{20} = +0.73^\circ$  ( $c = 0.1$ , 40% CH<sub>3</sub>CN). Source: ZHU JIE SAN QI *Panax pseudo-ginseng* var. *japonicus* (underground part: yield = 0.0081%dw). Ref: 4647.

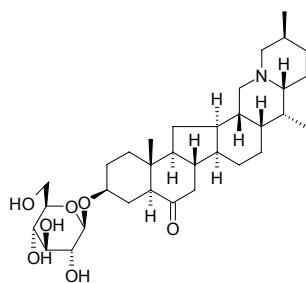


**22903 Yiamolosite B**

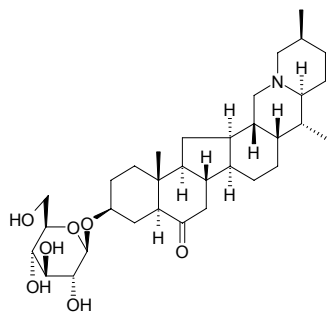
[80311-28-0] C<sub>43</sub>H<sub>68</sub>O<sub>15</sub> (825.01). **Pharm:** Antifungal. **Source:** AO ZHOU SHANG LU *Phytolacca octandra*. **Ref:** 658.

**22904 Yibeinoside A**

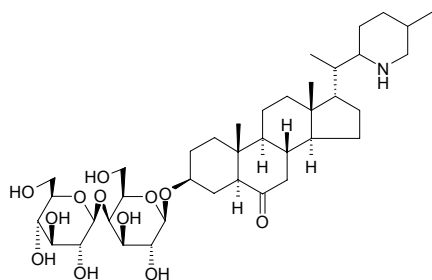
Sinpeinine-3-*O*- $\beta$ -glucoside C<sub>33</sub>H<sub>53</sub>NO<sub>7</sub> (575.79). Colorless acicular crystals, mp 248–250°C, [ $\alpha$ ]<sub>D</sub><sup>15</sup> = –59° (*c* = 0.1, methanol). **Source:** YI BEI MU *Fritillaria pallidiflora*. **Ref:** 172.

**22905 Yibeinoside B**

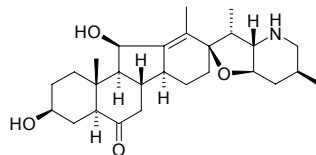
C<sub>33</sub>H<sub>53</sub>NO<sub>7</sub> (575.79). Colorless acicular crystals (MeOH), mp 202–204°C. **Source:** YI BEI MU *Fritillaria pallidiflora*. **Ref:** 259.

**22906 Yibeinoside C**

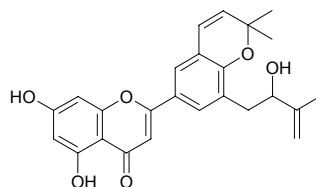
22,26-Epiminocholest-6-one-3-*O*- $\beta$ -*D*-glucopyranosyl-(1→4)- $\beta$ -*D*-galactopyranoside C<sub>39</sub>H<sub>65</sub>NO<sub>12</sub> (739.95). Colorless acicular crystals, mp 209–211°C. **Source:** YI BEI MU *Fritillaria pallidiflora*. **Ref:** 656.

**22907 Yibeissine**

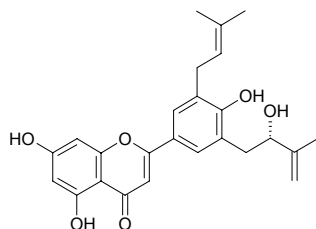
22,26-Imino-17,23-oxidojerv-12-en-6-oxo-3 $\beta$ ,11 $\alpha$ -diol C<sub>27</sub>H<sub>41</sub>NO<sub>4</sub> (443.63). Colorless acicular crystals, mp 164.5–166.0°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = –47.6° (*c* = 0.13, ethanol). **Source:** YI BEI MU *Fritillaria pallidiflora*. **Ref:** 219.

**22908 Yinyanghuo A**

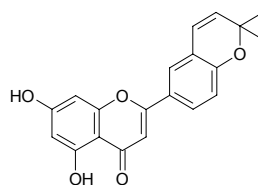
C<sub>25</sub>H<sub>24</sub>O<sub>6</sub> (420.47). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 635.

**22909 Yinyanghuo B**

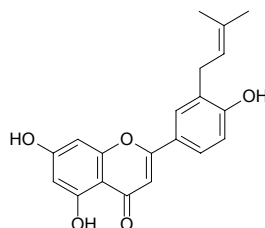
C<sub>25</sub>H<sub>26</sub>O<sub>6</sub> (422.48). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 635.

**22910 Yinyanghuo C**

C<sub>20</sub>H<sub>16</sub>O<sub>5</sub> (336.35). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 635.

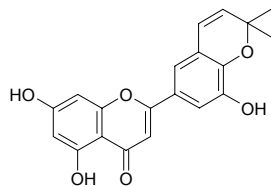
**22911 Yinyanghuo D**

C<sub>20</sub>H<sub>18</sub>O<sub>5</sub> (338.36). **Source:** YIN YANG HUO *Epimedium brevicornum*. **Ref:** 635.

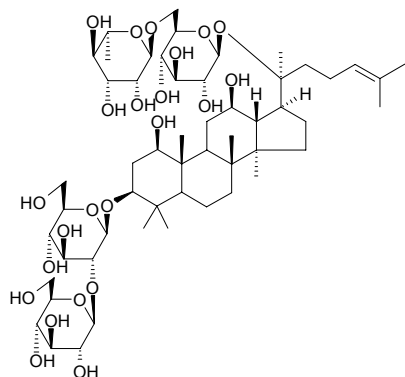


**22912 Yinyanghuo E**

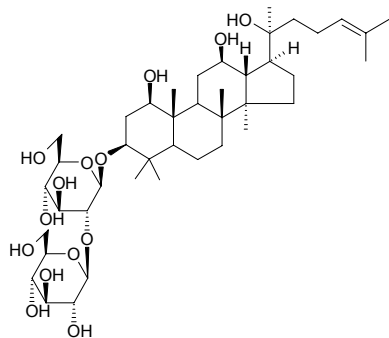
$C_{20}H_{16}O_6$  (352.35). Source: YIN YANG HUO *Epimedium brevicornum*. Ref: 635.

**22913 Yixinoside A**

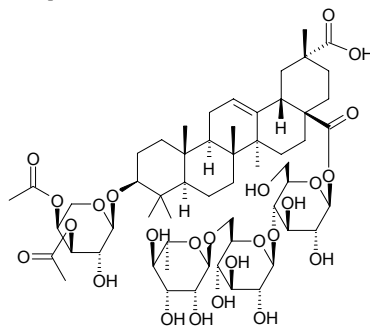
$C_{54}H_{92}O_{23}$  (1109.32). White powder, mp 201~202°C,  $[\alpha]_D^{14} = +11.28^\circ$  ( $c = 0.98$ , methanol). Source: HUI GUO JIAO GU LAN *Gynostemma yixingense*. Ref: 329.

**22914 Yixinoside B**

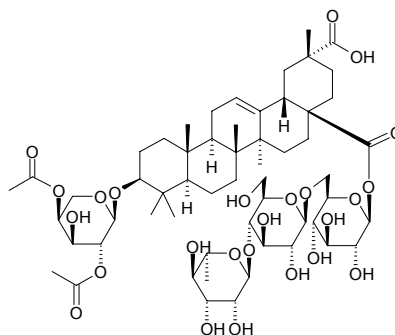
$C_{42}H_{72}O_{14}$  (801.03). White powder, mp 181~184°C. Source: HUI GUO JIAO GU LAN *Gynostemma yixingense*. Ref: 329.

**22915 Yiyeliangwanoside I**

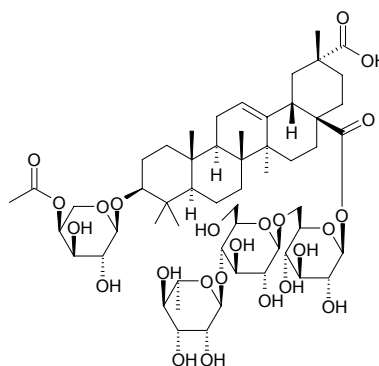
3-*O*- $\alpha$ -(3',4'-*O*-Dioic-acetyl)-*L*-arabino-pyranosyl-3 $\beta$ -hydroxyolean-12-ene-28, 29-dioic acid-28-*O*-[ $\alpha$ -*L*-rhamnopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glycopyranosyl(1 $\rightarrow$ 4)- $\beta$ -*D*-glycopyranosyl] ester  $C_{57}H_{88}O_{25}$  (1173.32). White powder, mp 203~205°C,  $[\alpha]_D^{25} = -3.47^\circ$  ( $c = 0.1$ , methanol). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 187.

**22916 Yiyeliangwanoside III**

3-*O*- $\alpha$ -(2',4'-*O*-Diacetyl)-*L*-arabinopyranosyl-3 $\beta$ -hydroxyolean-12-ene-28,29-dioic acid-28-*O*-[ $\alpha$ -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl] ester  $C_{57}H_{88}O_{25}$  (1173.32). White powder (methanol), mp 206~210°C,  $[\alpha]_D^{22} = +2.37^\circ$  ( $c = 0.1$ , methanol). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 216.

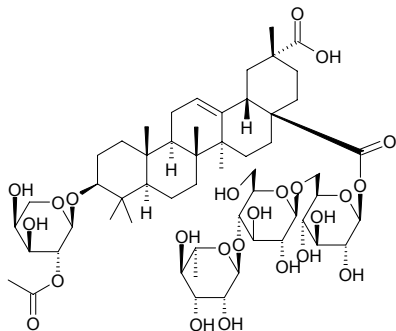
**22917 Yiyeliangwanoside IX**

[162795-92-8]  $C_{55}H_{86}O_{24}$  (1131.28). Powder, mp 228~230°C (dec),  $[\alpha]_D^{12} = -9.43^\circ$  ( $c = 0.053$ , MeOH). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 708.

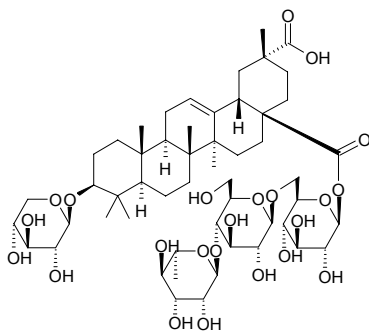


**22918 Yiyeliangwenoside X**

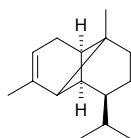
[162762-98-3] C<sub>55</sub>H<sub>86</sub>O<sub>24</sub> (1131.28). Powder, mp 210~212°C (dec), [α]<sub>D</sub><sup>20</sup> = -3.9° (c = 0.1, MeOH). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 708.

**22919 Yiyeliangwenoside XI**

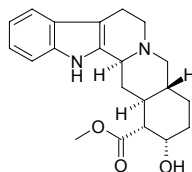
(-)-Yiyeliangwenoside XI [162811-51-0] C<sub>53</sub>H<sub>84</sub>O<sub>23</sub> (1089.25). Powder, mp 219~224°C, [α]<sub>D</sub><sup>12</sup> = -21.62° (c = 0.093, MeOH). Source: YI YE LIANG WANG CHA *Nothopanax davidii*. Ref: 708.

**22920 α-Ylangene**

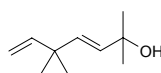
[14912-44-8] C<sub>15</sub>H<sub>24</sub> (204.36). Pharm: Flavorant. Source: CI GUI *Juniperus oxycedrus*, XIANG YUAN *Citrus wilsonii*, YI LAN *Cananga odorata*, *Betula* sp. Ref: 658, 660.

**22921 Yohimbine**

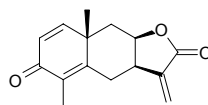
Corinine; Aphrodine; Quebrachine [146-48-5] C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub> (354.45). Colorless acicular crystals, mp 241°C, [α]<sub>D</sub><sup>20</sup> = +50.9° ~62.2° (ethanol), slightly soluble in water, soluble in ethanol, chloroform, hot benzene.<sup>[5507]</sup> Pharm: Anti-diuretic; anti-adrenaline; mydriatic; serotonin antagonist. Source: CUI TU LUO FU MU *Rauwolfia vomitoria*, GUANG LIANG LUO FU MU *Rauwolfia nitida*, KE NAN SHU *Corynanthe johimbe* (in 1896, isolated from the plant for the first time)<sup>[5507]</sup>, YIN DU LUO FU MU *Rauwolfia serpentina*, YUN NAN LUO FU MU *Rauwolfia yunnanensis*. Ref: 6, 658, 660, 1521, 5507.

**22922 Yomogi alcohol A**

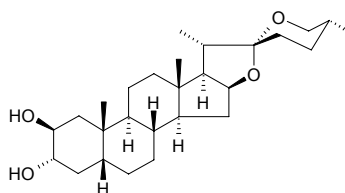
[26127-98-0] C<sub>10</sub>H<sub>18</sub>O (154.25). Source: AI YE *Artemisia argyi*. Ref: 6.

**22923 Yomogin**

[10067-18-2] C<sub>15</sub>H<sub>16</sub>O<sub>3</sub> (244.29). Colorless acicular crystals, mp 202~204°C. Pharm: Cytotoxic (A549 IC<sub>50</sub> = 0.14 μg/mL, HCT IC<sub>50</sub> = 1.3 μg/mL). Source: MAO LIAN HAO *Artemisia vestita*. Ref: 474, 1685.

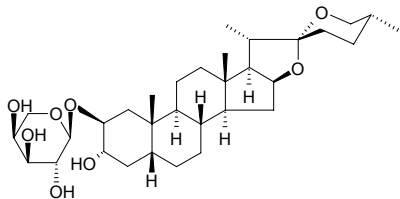
**22924 Yonogenin**

[2460-96-0] C<sub>27</sub>H<sub>44</sub>O<sub>4</sub> (432.65). mp 210~213°C. Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660.

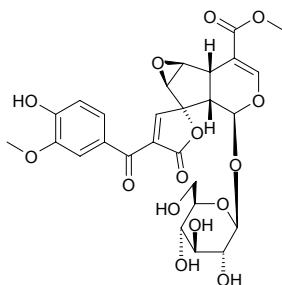


**22925 Yononin**

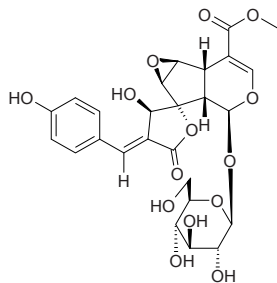
$C_{32}H_{52}O_8$  (564.77). mp 238~240°C (dec). Source: SHAN BI XIE *Dioscorea tokoro*. Ref: 6, 660.

**22926 Yopaoside A**

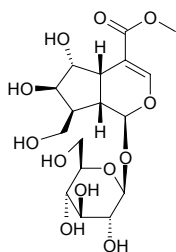
$C_{27}H_{28}O_{15}$  (592.52). Yellow amorphous powder,  $[\alpha]_D^{19} = -19.3^\circ$  ( $c = 2.1$ , MeOH). Source: TAI GUO BA JI *Morinda coreia*. Ref: 2002.

**22927 Yopaoside B**

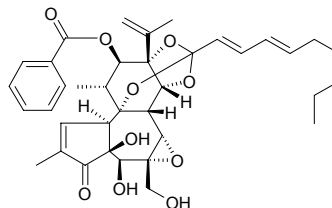
$C_{26}H_{28}O_{14}$  (564.50). Yellow amorphous powder,  $[\alpha]_D^{19} = -66.1^\circ$  ( $c = 1.6$ , MeOH). Source: TAI GUO BA JI *Morinda coreia*. Ref: 2002.

**22928 Yopaoside C**

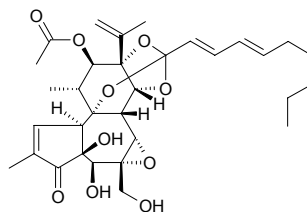
$C_{17}H_{26}O_{12}$  (422.39). Amorphous powder,  $[\alpha]_D^{19} = -128.5^\circ$  ( $c = 0.6$ , MeOH). Source: TAI GUO BA JI *Morinda coreia*. Ref: 2002.

**22929 Yuanhuacin**

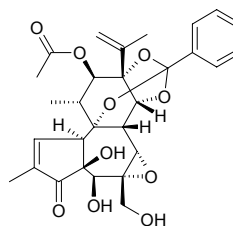
Yuanhuacin A  $C_{37}H_{44}O_{10}$  (648.76). Pharm: Uterine stimulant (mus, *in vitro*); inhibits biosynthesis of DNA (mus embryo, *in vitro*, 20 $\mu$ g/mL); antineoplastic (mus, P<sub>388</sub>). Source: HE SHUO YAO HUA *Wikstroemia chamaedaphne*, YUAN HUA *Daphne genkwa* (dried bud: content scope of 4 origins = 0.0022%~0.0094%, mean content = 0.0070%<sup>[5508]</sup>), YUAN HUA GEN *Daphne genkwa*. Ref: 660, 5501, 5508.

**22930 Yuanhuadin**

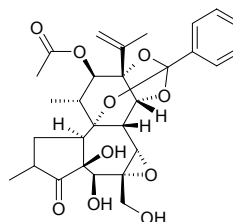
Yuanhuadin B  $C_{32}H_{42}O_{10}$  (586.69). Source: YUAN HUA *Daphne genkwa*, YUAN HUA GEN *Daphne genkwa*. Ref: 660.

**22931 Yuanhuafin**

$C_{29}H_{32}O_{10}$  (540.57). Source: YUAN HUA *Daphne genkwa*. Ref: 660.

**22932 Yuanhuapin**

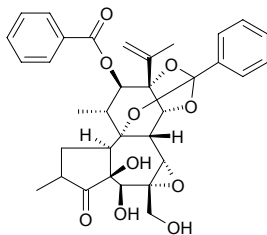
[104901-03-]  $C_{29}H_{34}O_{10}$  (542.59). Source: YUAN HUA *Daphne genkwa*. Ref: 660.



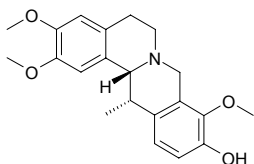


**22933 Yuanhuatin**

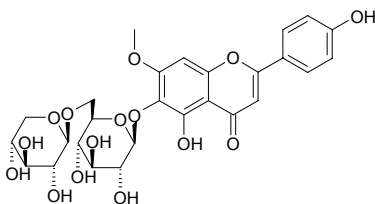
$C_{34}H_{36}O_{10}$  (604.66). Source: YUAN HUA *Daphne genkwa*. Ref: 660.

**22934 Yuanhunine**

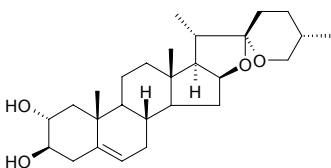
[104387-15-7]  $C_{21}H_{25}NO_4$  (355.44). Colorless rhomboid crystals, mp 166~168°C,  $[\alpha]_D^{23} = +229.7^\circ$  ( $c = 0.16$ , 95% ethanol). Source: YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. Ref: 56, 1521.

**22935 Yuankanin**

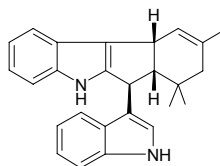
Genkwanin-5-O-xylosylglucoside  $C_{27}H_{30}O_{15}$  (594.53). Source: ZONG BAO GE NI DI MU *Gnidia involucrata* (aerial parts). Ref: 3996.

**22936 Yuccagenin**

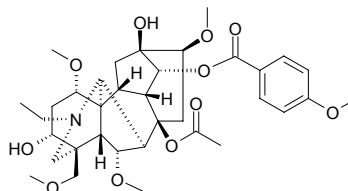
$C_{27}H_{42}O_4$  (430.63). mp 245°C. Source: HU LU BA *Trigonella foenum-graecum*, XIAN MAO *Curculigo orchoides*, Agave lecheguilla. Ref: 660, 2458, 2503.

**22937 Yuechukene**

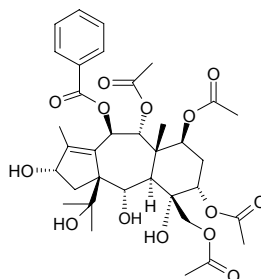
[96624-37-2]  $C_{26}H_{26}N_2$  (366.51). White amorphous powder, mp 127°C,  $[\alpha]_D = 0^\circ$ . Pharm: Antiestrogenic; pregnancy terminator (pregnant rat, 2.5mg/kg orl). Source: JIU LI XIANG *Murraya paniculata* [Syn. *Chalcas paniculata*], JIU LI XIANG GEN *Murraya paniculata* [Syn. *Chalcas paniculata*], XIAO GAN *Micromelum falcatum*. Ref: 600, 660, 900, 5501.

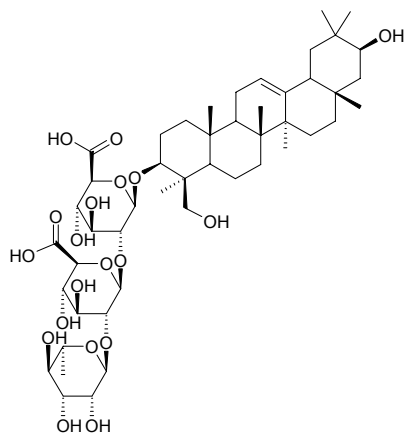
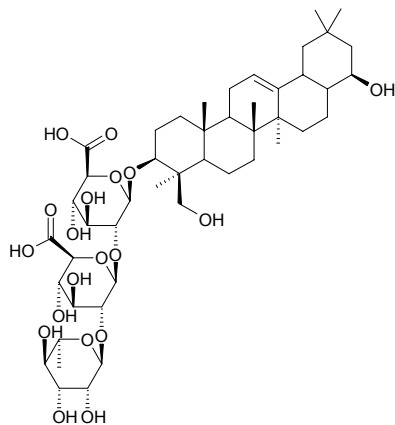
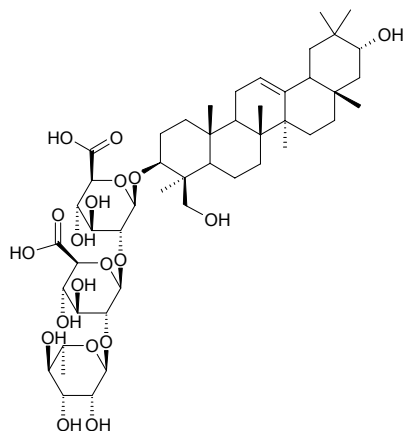
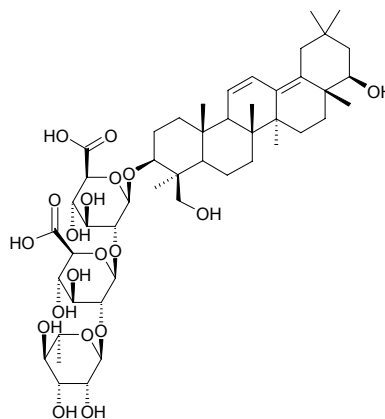
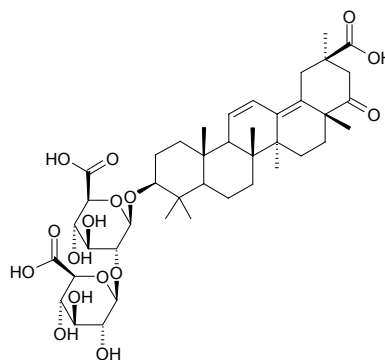
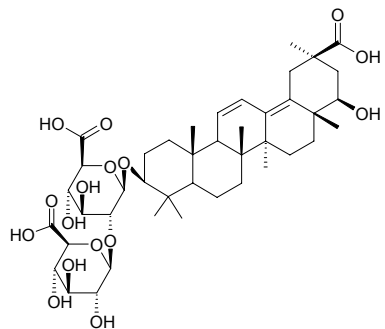
**22938 Yunaconitine**

[70578-24-4]  $C_{35}H_{49}NO_{11}$  (659.78). Pharm: Anti-inflammatory (mus, swollen foot model, tampon granuloma model, inhibits blood capillary permeability and plano-leucocyte); analgesic (weak action); antipyretic (rat, yeast-induced); immunoenhancer (mus, ip, 50µg/kg, extends planted myocardial survival time in ear region); local anesthetic; LD<sub>50</sub> (mus, orl) = 2.97mg/kg, (rat, orl) = 540µg/kg. Source: BEI WU TOU *Aconitum kusnezoffii*, DIAN XI WU TOU *Aconitum bulleyanum*, GAO WU TOU *Aconitum sinomontanum*, GUA YE WU TOU *Aconitum hemsleyanum*, LI JIANG WU TOU *Aconitum forrestii* [Syn. *Aconitum likiangense*], SONG PAN WU TOU *Aconitum sungpanense*, XI BAN WU TOU *Aconitum geniculatum*. Ref: 618, 660, 1587, 1588.

**22939 Yunantaxusin A**

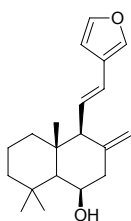
[160928-37-0]  $C_{35}H_{46}O_{14}$  (690.75). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.



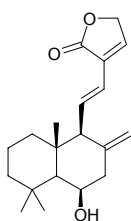
**22940 Yunganoside A<sub>1</sub>**C<sub>48</sub>H<sub>76</sub>O<sub>19</sub> (957.13). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22941 Yunganoside B<sub>1</sub>**C<sub>47</sub>H<sub>74</sub>O<sub>19</sub> (943.10). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22942 Yunganoside C<sub>1</sub>**C<sub>48</sub>H<sub>76</sub>O<sub>19</sub> (957.13). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22943 Yunganoside D<sub>1</sub>**C<sub>48</sub>H<sub>74</sub>O<sub>19</sub> (955.11). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22944 Yunganoside E<sub>2</sub>**C<sub>42</sub>H<sub>60</sub>O<sub>16</sub> (820.94). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.**22945 Yunganoside F<sub>2</sub>**C<sub>42</sub>H<sub>62</sub>O<sub>16</sub> (822.95). Source: YUN NAN GAN CAO *Glycyrrhiza yunnanensis*.Ref: 660.

**22946 Yunnancoronarin A**

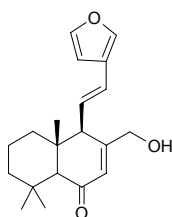
$C_{20}H_{28}O_2$  (300.44). Source: DIAN JIANG HUA *Hedychium yunnanense*. Ref: 1521.

**22947 Yunnancoronarin B**

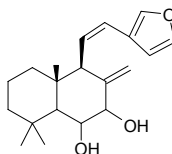
$C_{20}H_{28}O_3$  (316.44). Source: DIAN JIANG HUA *Hedychium yunnanense*. Ref: 1521.

**22948 Yunnancoronarin D**

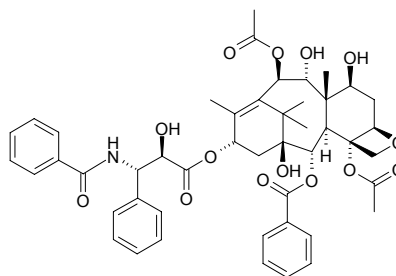
$C_{20}H_{26}O_3$  (314.43). Source: DIAN JIANG HUA *Hedychium yunnanense*. Ref: 1521.

**22949 Yunnancoronarin E**

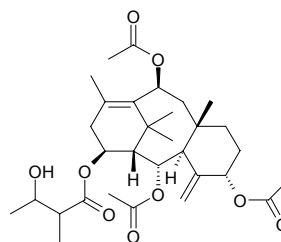
13 $\beta$ -Furanolabda-8(17),11-dien-6 $\beta$ ,7 $\alpha$ -diol  $C_{20}H_{28}O_3$  (316.44). Colorless oil. Source: DIAN JIANG HUA *Hedychium yunnanense*. Ref: 892.

**22950 Yunnanxamine**

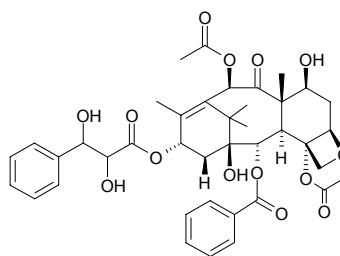
9-Deoxo-9 $\alpha$ -hydroxytaxol [148584-53-6]  $C_{47}H_{53}NO_{14}$  (855.94). White powder, mp 174~176°C,  $[\alpha]_D^{22} = -13.1^\circ$  ( $c = 0.08$ , chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 316.

**22951 Yunnanxane**

Taxa-4(20),11-diene-2 $\alpha$ ,5 $\alpha$ ,10 $\beta$ ,14 $\beta$ -tetraol-2 $\alpha$ ,5 $\alpha$ ,10 $\beta$ -triacetate-14 $\beta$ - $\alpha$ -methyl- $\beta$ -hydroxyl butyrate [139713-81-8]  $C_{31}H_{46}O_9$  (562.71). Colorless transparent massive crystals, mp 165~167°C,  $[\alpha]_D^{17} = +41.6^\circ$  (methanol). Pharm: Anti-neoplastic. Source: MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). Ref: 202, 900, 4611.

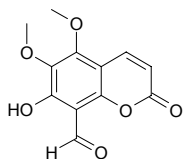
**22952 Yunnanxol**

13(2',3'-Dihydroxy-3'-phenyl)propionyl baccatin III  $C_{40}H_{46}O_{14}$  (750.80). White powder, mp 154~157°C,  $[\alpha]_D^{12} = -75.2^\circ$  ( $c = 0.055$ , chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 316, 662.

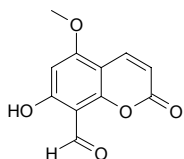


**22953 Yunngnin A**

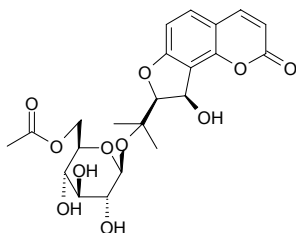
8-Formyl-7-hydroxy-5,6-dimethoxy coumarin C<sub>12</sub>H<sub>10</sub>O<sub>6</sub> (250.21). Colorless crystalline powder, mp 158~160°C. Source: YONG NING DU HUO *Heracleum yungningense* (root). Ref: 4472.

**22954 Yunngnin B**

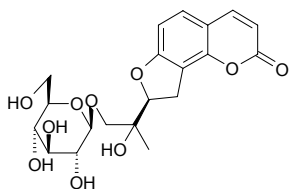
C<sub>11</sub>H<sub>8</sub>O<sub>5</sub> (220.18). Colorless crystalline powder, mp 179~180°C. Source: YONG NING DU HUO *Heracleum yungningense* (root). Ref: 4472.

**22955 Yunngnoside A**

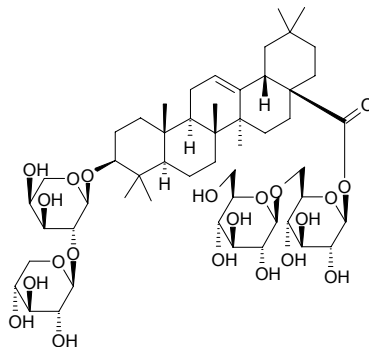
C<sub>22</sub>H<sub>26</sub>O<sub>11</sub> (466.45). Colorless crystalline powder, mp 240~242°C. Source: YONG NING DU HUO *Heracleum yungningense* (root). Ref: 4472.

**22956 Yunngnoside B**

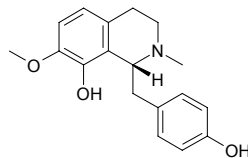
C<sub>20</sub>H<sub>24</sub>O<sub>10</sub> (424.41). Pale yellow viscous oil. Source: YONG NING DU HUO *Heracleum yungningense* (root). Ref: 4472.

**22957 Yuzhizioside**

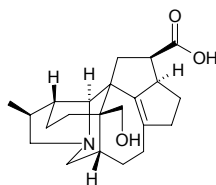
3-*O*-β-*D*-xylopyranosyl-(1→2)-α-*L*-arabinopyranosyl oleanolic acid 28-*O*-β-*D*-glucopyranosyl-(1→6)-β-*D*-glucopyranoside C<sub>52</sub>H<sub>84</sub>O<sub>21</sub> (1045.24). White acicular crystals, mp 213~216°C. Source: BAI MU TONG *Akebia trifoliata* var. *australis*. Ref: 299.

**22958 Yuziphine**

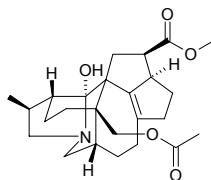
Juziphine C<sub>18</sub>H<sub>21</sub>NO<sub>3</sub> (299.37). Source: KU DI DING *Corydalis bungeana*. Ref: 660.

**22959 Yuzurimic acid B**

C<sub>22</sub>H<sub>31</sub>NO<sub>3</sub> (357.5). Microcrystals (MeOH), mp 253~255°C, [α]<sub>D</sub><sup>22</sup> = +11° (c = 0.3, MeOH). Source: NIU ER FENG ZI *Daphniphyllum calycinum* (fruit: yield = 0.0013%). Ref: 4754.

**22960 Yuzurimine E**

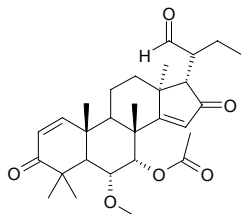
C<sub>25</sub>H<sub>35</sub>NO<sub>5</sub> (429.56). Colorless amorphous solid, [α]<sub>D</sub><sup>22</sup> = -33° (c = 0.3, MeOH). Source: NIU ER FENG ZI *Daphniphyllum calycinum* (fruit: yield = 0.00042%). Ref: 4754.



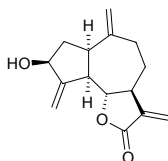
## Z

**22961 Zafaral**

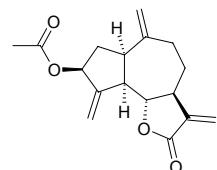
[24,25,26,27-Tetranorapotirucalla-(apoeupha)-6 $\alpha$ -methoxy-7 $\alpha$ -acetoxy-1,14-dien-3,16-dione-21-yl] C<sub>29</sub>H<sub>40</sub>O<sub>6</sub> (484.64). Crystalline, mp 71~72°C, [ $\alpha$ ]<sub>D</sub><sup>27</sup> = +41.0° (*c* = 0.02, CHCl<sub>3</sub>). Source: YIN DU LIAN *Azadiractica indica* (leaf). Ref: 3844.

**22962 Zaluzanin C**

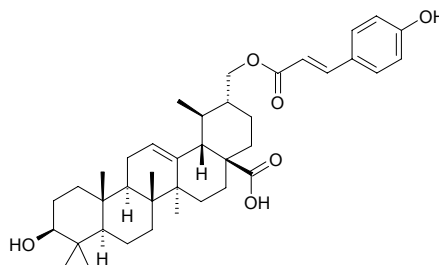
[16838-87-2] C<sub>15</sub>H<sub>18</sub>O<sub>3</sub> (246.31). mp 94–95°C. Pharm: Antineoplastic (mus P<sub>388</sub>, 150mg/kg, biotic prolonged rate = 61%); cytotoxic (*in vitro*, HepG<sub>2</sub>, CD<sub>50</sub> = 34 $\mu$ g/mL; HeLa, CD<sub>50</sub> = 22 $\mu$ g/mL; OVCAR-3, CD<sub>50</sub> = 15 $\mu$ g/mL; control Cisplatin, HepG<sub>2</sub>, CD<sub>50</sub> = 2.8 $\mu$ g/mL; HeLa, CD<sub>50</sub> = 5.2 $\mu$ g/mL; OVCAR-3, CD<sub>50</sub> = 3 $\mu$ g/mL; without significant antibacterial effect)<sup>[4720]</sup>. Source: MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: yield = 0.0023%dw)<sup>[4720]</sup>, SHE TAI *Conocephalum conicum*. Ref: 5, 658, 4720.

**22963 Zaluzanin D**

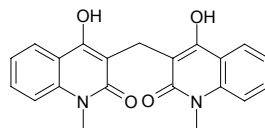
C<sub>17</sub>H<sub>20</sub>O<sub>4</sub> (288.35). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 2.5 $\mu$ mol/L)<sup>[4248]</sup>. Source: SHE TAI *Conocephalum conicum*, YUE GUI YE *Laurus nobilis*. Ref: 660, 4248.

**22964 Zamanic acid**

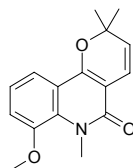
C<sub>39</sub>H<sub>54</sub>O<sub>6</sub> (618.86). [ $\alpha$ ]<sub>D</sub><sup>27</sup> = +26° (*c* = 0.15, CHCl<sub>3</sub>). Source: DUN XING JI DAN HUA *Plumeria obtusa* (leaf). Ref: 2385.

**22965 Zanthobisquinolone**

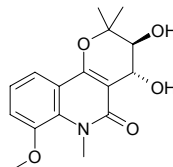
C<sub>21</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub> (362.39). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: *Zanthoxylum* sp. Ref: 2176.

**22966 Zanthobungeanine**

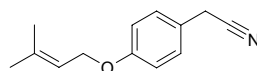
[64190-94-9] C<sub>16</sub>H<sub>17</sub>NO<sub>3</sub> (271.30). Pharm: Antifungal (yeast-like pathogenic bacteria, subcutaneous pathogenic bacteria, skin pathogenic bacteria). Source: HUA JIAO *Zanthoxylum bungeanum*. Ref: 658.

**22967 Zanthodioline**

C<sub>16</sub>H<sub>19</sub>NO<sub>5</sub> (305.33). Source: YE HUA JIAO YE *Zanthoxylum simulans*. Ref: 2176.

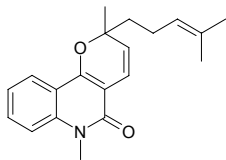
**22968 Zanthonitrile**

C<sub>13</sub>H<sub>13</sub>NO (201.27). Source: *Zanthoxylum* sp. Ref: 2176.

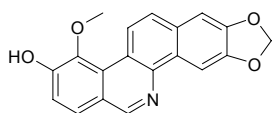


**22969 Zanthosimuline**

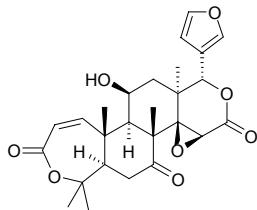
[155416-20-9] C<sub>20</sub>H<sub>23</sub>NO<sub>2</sub> (309.41). Oil, [ $\alpha$ ]<sub>D</sub> = +7° (c = 0.1, chloroform). **Pharm:** Cytotoxic (ED<sub>50</sub> = 5.2–30.4 μmol/L); platelet aggregation inhibitor; DNA isomerase inhibitor. **Source:** YE HUA JIAO YE *Zanthoxylum simulans*, HUA JIAO *Zanthoxylum bungeanum*. **Ref:** 1052, 1120, 2176.

**22970 Zanthoxyline**

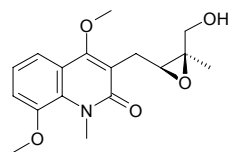
C<sub>19</sub>H<sub>13</sub>NO<sub>4</sub> (319.32). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**22971 Zapoterin**

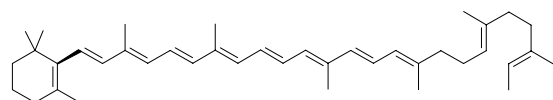
11-β-Hydroxybacunone. [35796-71-5] C<sub>26</sub>H<sub>30</sub>O<sub>8</sub> (470.52). **Source:** SHAN HUANG PI *Clausena excavata*. **Ref:** 703.

**22972 Zascanol epoxide**

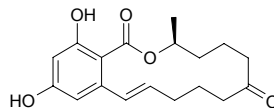
C<sub>17</sub>H<sub>21</sub>NO<sub>5</sub> (319.36). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** *Zanthoxylum* sp. **Ref:** 2176.

**22973 β-Zeacarotene**

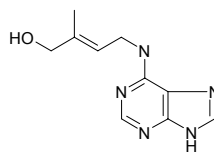
C<sub>40</sub>H<sub>58</sub> (538.91). **Source:** HAI YUN *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*]. **Ref:** 660.

**22974 Zearalenone**

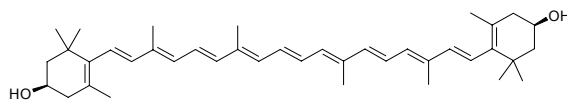
C<sub>18</sub>H<sub>22</sub>O<sub>5</sub> (318.37). **Pharm:** Induces geno-defect (animal model). **Source:** DAO CHI MEI JUN *Gibberella zeae*. **Ref:** 658.

**22975 Zeatin**

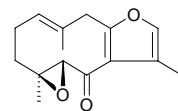
[1637-39-4] C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O (219.25). mp 207–208°C. **Pharm:** Anti-caducity of plants; plant growth regulator; promotes cell division of plants; used in treatment of hepatitis virus. **Source:** HUO MA REN *Cannabis sativa*, MI HOU TAO *Actinidia chinensis*, BIAN DOU *Dolichos lablab*, TAO NAN GUA *Cucurbita pepo* var. *akoda*, XI HU LU *Cucurbita pepo*, YI NIAN SHENG SHAN DIAN *Mercurialis annua*, YU SHU SHU *Zea mays*. **Ref:** 6, 660, 658.

**22976 Zeaxanthin**

[144-68-3] C<sub>40</sub>H<sub>56</sub>O<sub>2</sub> (568.89). mp 215.5°C. **Pharm:** Yellow pigment. **Source:** CU LIU GUO *Hippophae rhamnoides*, GOU QI ZI *Lycium chinense*, HONG HAI JIAO *Capsicum annuum*, HUANG BAI HE *Lilium hansonii*, JIN YU *Carassius auratus*, JU PI *Citrus reticulata*, NING XIA GOU QI ZI *Lycium barbarum*, SU TIE SHU GUO *Cycas revoluta*, YU SHU SHU *Zea mays*, ZANG HONG HUA *Crocus sativus*, ZHI KE *Citrus aurantium*. **Ref:** 2, 658.

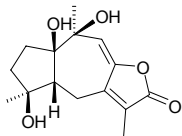
**22977 Zederone**

[7727-79-9] C<sub>15</sub>H<sub>18</sub>O<sub>3</sub> (246.31). mp 153.5–154.0°C. **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS, 100 μmol/L, InRt = (29.9±2.4)%, control L-NMMA, 100 μmol/L, InRt = (79.2±0.9)%, p<0.01)<sup>[4150]</sup>. **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 6, 1521, 4150.

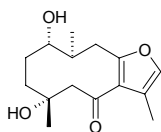


**22978 Zedoalactone B**

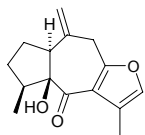
$C_{15}H_{20}O_5$  (280.32). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 $\mu$ mol/L, InRt = (7.1 $\pm$ 7.6)%, control *L*-NMMA, 100 $\mu$ mol/L, InRt = (79.2 $\pm$ 0.9)%). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**22979 Zedoarofuran**

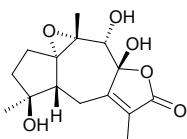
$C_{15}H_{22}O_4$  (266.34). Colorless oil,  $[\alpha]_D^{24} = +26.0^\circ$  ( $c = 0.10$ ,  $CHCl_3$ ). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**22980 Zedoarol**

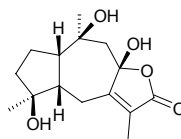
$C_{15}H_{18}O_3$  (246.31). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 660.

**22981 Zedoarolide A**

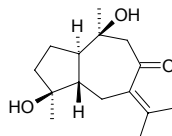
$C_{15}H_{20}O_6$  (296.32). Colorless oil,  $[\alpha]_D^{18} = -32.5^\circ$  ( $c = 0.10$ ,  $CHCl_3$ ). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 $\mu$ mol/L, InRt = (-3.9 $\pm$ 4.3)%, control *L*-NMMA, 100 $\mu$ mol/L, InRt = (79.2 $\pm$ 0.9)%). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**22982 Zedoarolide B**

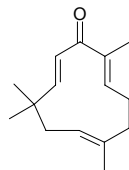
$C_{15}H_{22}O_5$  (282.34). Colorless oil,  $[\alpha]_D^{21} = -20.6^\circ$  ( $c = 1.80$ , MeOH). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 $\mu$ mol/L, InRt = (10.9 $\pm$ 4.4)%, control *L*-NMMA, 100 $\mu$ mol/L, InRt = (79.2 $\pm$ 0.9)%). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**22983 Zedoarondiol**

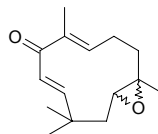
$C_{15}H_{24}O_3$  (252.36). **Pharm:** NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100 $\mu$ mol/L, InRt = (10.3 $\pm$ 2.0)%, control *L*-NMMA, 100 $\mu$ mol/L, InRt = (79.2 $\pm$ 0.9)%,  $p < 0.01$ )<sup>[4150]</sup>. **Source:** JIANG HUANG *Curcuma longa*, PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], YU JIN *Curcuma aromatica*. **Ref:** 660, 4150.

**22984 Zerumbone**

2,6,9-Humulatrien-8-one  $C_{15}H_{22}O$  (218.34). **Pharm:** NO production inhibitor (cultured RAW264.7 macrophages, induced by LPS,  $IC_{50} = 5.4\mu$ mol/L, control *L*-NMMA,  $IC_{50} = 21.3\mu$ mol/L)<sup>[4481]</sup>, CYP3A4 inhibitor ( $IC_{50} = 21.8\mu$ mol/L, control Ketoconazole,  $IC_{50} = 0.245\mu$ mol/L)<sup>[4669]</sup>, CYP2D6 inhibitor inactive ( $IC_{50} > 100\mu$ mol/L, control Quinidine,  $IC_{50} = 0.078\mu$ mol/L)<sup>[4669]</sup>, antineoplastic (inhibits growth of P388D1 cells,  $IC_{50} = 22.6\mu$ g/mL, control Adriamycin,  $IC_{50} = 0.20\mu$ g/mL)<sup>[5067]</sup>. **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.0025%dw), HONG QIU JIANG *Zingiber zerumbet* (rhizome), YU YE DING XIANG *Syringa pinnatifolia*. **Ref:** 1521, 4481, 4669, 5067.

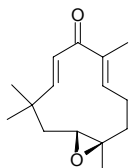
**22985 Zerumbone epoxide**

2,3-Epoxy-6,9-humuladien-8-one  $C_{15}H_{22}O_2$  (234.34). **Pharm:** CYP3A4 inhibitor ( $IC_{50} = 48.4\mu$ mol/L, control Ketoconazole,  $IC_{50} = 0.245\mu$ mol/L)<sup>[4669]</sup>; CYP2D6 inhibitor inactive ( $IC_{50} > 100\mu$ mol/L, control Quinidine,  $IC_{50} = 0.078\mu$ mol/L)<sup>[4669]</sup>. **Source:** FANG XIANG JIANG *Zingiber aromaticum* (rhizome: yield = 0.0050%dw), HONG QIU JIANG *Zingiber zerumbet*. **Ref:** 1521, 4669.

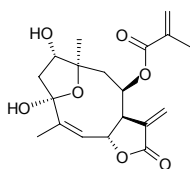


**22986 Zerumboneoxide**

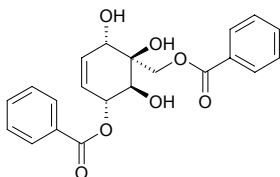
$C_{15}H_{22}O_2$  (234.34). Colorless crystals, mp 96–97°C,  $[\alpha]_D^{20} = 0.0^\circ$  ( $c = 0.24$ ,  $CHCl_3$ ). **Pharm:** NO production inhibitor (cultured RAW264.7 macrophages, induced by LPS,  $IC_{50} = 23.5\mu\text{mol/L}$ , control *L*-NMMA,  $IC_{50} = 21.3\mu\text{mol/L}$ )<sup>1</sup>. **Source:** HONG QIU JIANG *Zingiber zerumbet* (rhizome). **Ref:** 4481.

**22987 Zexbrevin B**

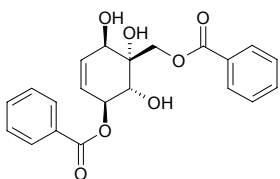
[34302-19-7]  $C_{19}H_{24}O_7$  (364.40). **Pharm:** Antineoplastic; cytotoxic. **Source:** DUAN YE PENG QI JU *Zexmenia brevifolia*. **Ref:** 658.

**22988 Zeylenol**

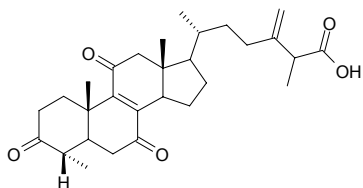
$C_{21}H_{20}O_7$  (384.39). **Pharm:** Cytotoxic (MTT assay, A549 bronchogenic carcinoma cell,  $IC_{50} = 25\mu\text{g/mL}$ , SK-MES-1 bronchogenic carcinoma cell,  $IC_{50} = 23\mu\text{g/mL}$ , NCI-H446 bronchogenic carcinoma cell,  $IC_{50} = 26\mu\text{g/mL}$ ). **Source:** LIU GUO ZI YU PAN *Uvaria kweichowensis* (leaf). **Ref:** 4481.

**22989 (+)-Zeylenol**

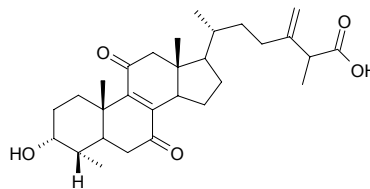
$C_{21}H_{20}O_7$  (384.39). **Source:** BI CHENG QIE *Piper cubeba*. **Ref:** 660.

**22990 Zhankuic acid A**

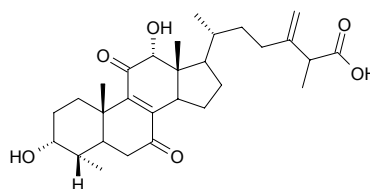
$C_{29}H_{40}O_5$  (468.64). **Pharm:** Anti-inflammatory. **Source:** *Antrodia camphorata* (fruit body). **Ref:** 4960.

**22991 Zhankuic acid B**

$C_{29}H_{42}O_5$  (470.66). **Source:** *Antrodia camphorata* (fruit body). **Ref:** 4960.

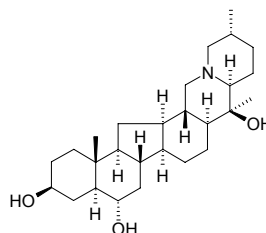
**22992 Zhankuic acid C**

$C_{29}H_{42}O_6$  (486.65). **Source:** *Antrodia camphorata* (fruit body). **Ref:** 4960.

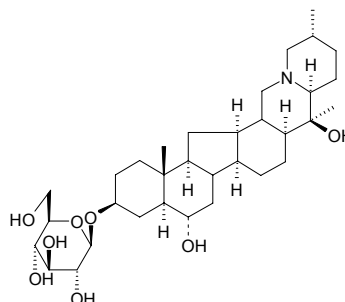
**22993 Zhebeinine**

5 $\alpha$ ,14 $\alpha$ -22 $\alpha$ -Cevanine-3 $\beta$ ,6 $\alpha$ ,20 $\beta$ -triol [135636-54-3]  $C_{27}H_{45}NO_3$  (431.66). White acicular crystals, mp 222–224°C,  $[\alpha]_D^{25} = -21.3^\circ$  ( $c = 0.5$ , ethanol).

**Source:** ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 186, 528.

**22994 Zhebeininoside**

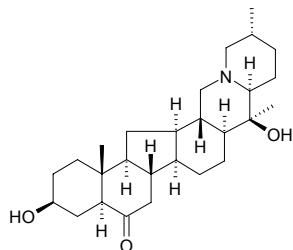
$C_{33}H_{55}NO_8$  (593.81). **Source:** ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. **Ref:** 660.



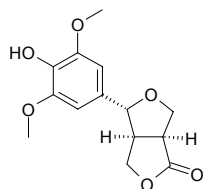


**22995 Zhebeinone**

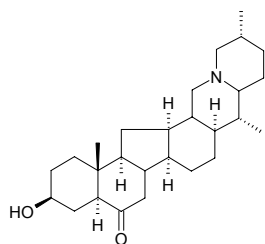
5 $\alpha$ ,14 $\alpha$ -Cevanine-3 $\beta$ ,20 $\beta$ -dihydroxy-6-one C<sub>27</sub>H<sub>43</sub>NO<sub>3</sub> (429.65). Colorless crystals (acetone), mp 181~183°C, [ $\alpha$ ]<sub>D</sub><sup>10</sup> = -48.76° (c = 0.035, chloroform). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 233, 660

**22996 Zhebeiresinol**

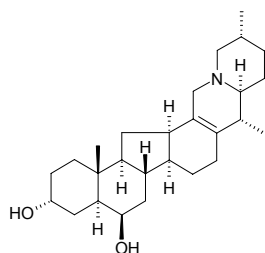
2-(3',5'-Dimethoxy-4'-hydroxyphenyl)-3,7-dioxabicyclo[3.3.0]octan-6-one. C<sub>14</sub>H<sub>16</sub>O<sub>6</sub> (280.28). Yellowish prismatic crystals, mp 193~194°C. Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 262.

**22997 Zhebeirine**

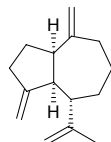
C<sub>27</sub>H<sub>43</sub>NO<sub>2</sub> (413.65). Source: ZHE BEI MU *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*]. Ref: 660.

**22998 Ziebeimine**

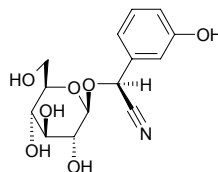
5 $\alpha$ ,14 $\alpha$ -Cevanine-13,17-dehydro-3 $\alpha$ ,6 $\beta$ -diol C<sub>27</sub>H<sub>43</sub>NO<sub>2</sub> (413.65). Colorless crystals, mp 186~188°C, [ $\alpha$ ]<sub>D</sub><sup>23</sup> = +10.6° (c = 0.09 CHCl<sub>3</sub>). Source: ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 136.

**22999 Zierene**

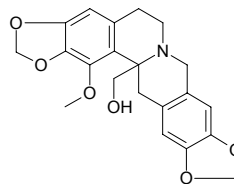
(+)-(1*R*\*,5*R*\*,6*S*\*)-Zierene C<sub>15</sub>H<sub>22</sub> (202.34). Source: *Saccogyna viticulosa* (essential oil). Ref: 3839.

**23000 Zierin**

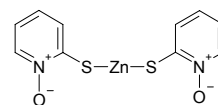
[645-02-3] C<sub>14</sub>H<sub>17</sub>NO<sub>7</sub> (311.30). Pharm: Toxin. Source: TUN CAO ZI WAN *Aster ptarmicoides*, TIAN YE JI DOU *Oxytropis campestris*, XI YANG JIE GU MU *Sambucus nigra*. Ref: 658.

**23001 Zijinlongine**

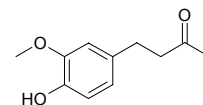
[133086-83-6] C<sub>21</sub>H<sub>21</sub>NO<sub>6</sub> (383.40). Colorless lamellar crystals, mp 166~167°C. Source: ZI HUA E BEI BEI MU *Fritillaria ebeiensis* var. *purpurea*. Ref: 162.

**23002 Zincpolyanemine**

[13463-41-7] C<sub>10</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>Zn (317.69). Pharm: Antibacterial; antifungal; antimalarial (rat malaria, ED = 50mg/kg). Source: LING SHUI AN LUO *Polyalthia nemoralis*. Ref: 658, 1271.

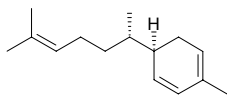
**23003 Zingerone**

[122-48-5] C<sub>11</sub>H<sub>14</sub>O<sub>3</sub> (194.23). mp 40~41°C, bp 190°C/16mmHg. Pharm: Anesthetic; antemetic; antipyretic (rat, 100~150mg/kg, body temperature goes down 2~3°C); paralyzes motor nerve (iv). Source: GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale* (rhizome: content = 0.48%<sup>[5508]</sup>). Ref: 2, 658, 5508.

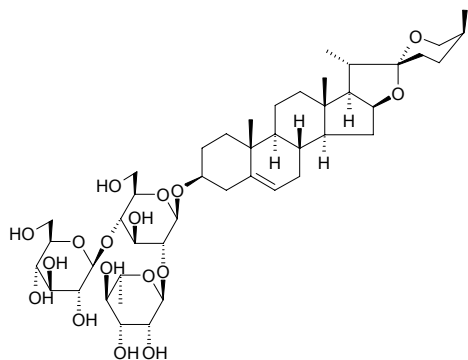


**23004 Zingiberene**

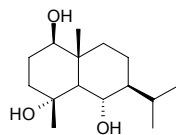
[*S*-(*R*\*,*S*\*)]-5-(1,5-Dimethyl-4-hexenyl)-2-methyl-1,3-cyclohexadiene.  
[495-60-3] C<sub>15</sub>H<sub>24</sub> (204.36). (–) bp 134°C/14mmHg. **Pharm:** Analgesic.  
**Source:** GAN JIANG *Zingiber officinale*, SHENG JIANG *Zingiber officinale*,  
*Curcuma* sp. **Ref:** 2, 658.

**23005 Zingiberoside A<sub>3</sub>**

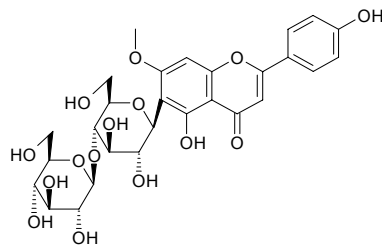
Balanitin 6 [99661-97-9] C<sub>45</sub>H<sub>72</sub>O<sub>17</sub> (885.05). Acicular crystals (ethanol), mp 278–280°C; 282–289°C, [ $\alpha$ ]<sub>D</sub><sup>29</sup> = –89° (*c* = 0.67, pyridine). **Pharm:** Cytotoxic (mus P<sub>388</sub>, ED<sub>50</sub> = 0.21 µg/mL). **Source:** DUN YE SHU YU *Dioscorea zingiberensis*. **Ref:** 901, 1051.

**23006 Zingibertriol**

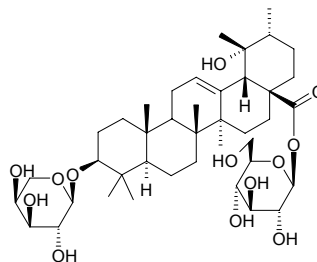
C<sub>15</sub>H<sub>28</sub>O<sub>3</sub> (256.39). **Source:** ZHOU YE MU LAN *Magnolia praecoccissima* (seed). **Ref:** 4181.

**23007 Zivulgarin**

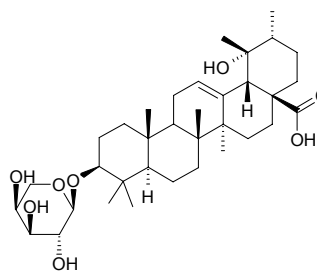
4"-β-D-Glucopyranosyl swertisin [108657-24-5] C<sub>28</sub>H<sub>32</sub>O<sub>15</sub> (608.56).  
Yellowish acicular crystals, mp 275–277°C (methanol). **Source:** SUAN ZAO  
REN *Ziziphus jujuba* var. *spinosa*. **Ref:** 73.

**23008 Ziyu glycoside I**

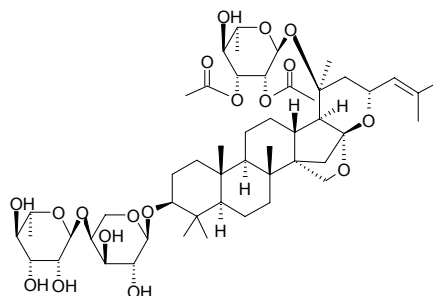
C<sub>41</sub>H<sub>66</sub>O<sub>13</sub> (766.98). mp 256–260°C. **Source:** DI YU *Sanguisorba officinalis*.  
**Ref:** 6.

**23009 Ziyu glycoside II**

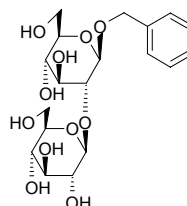
C<sub>35</sub>H<sub>56</sub>O<sub>8</sub> (604.83). **Source:** DI YU *Sanguisorba officinalis*. **Ref:** 6.

**23010 Ziziphin**

[73667-51-3] C<sub>51</sub>H<sub>80</sub>O<sub>18</sub> (981.20). **Pharm:** Flavorant, conditioning agent.  
**Source:** DA ZAO *Ziziphus jujuba*. **Ref:** 658, 1521.

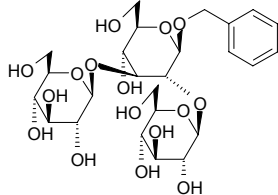
**23011 Zizybeoside I**

[76819-28-8] C<sub>19</sub>H<sub>28</sub>O<sub>11</sub> (432.43). **Source:** CHA RU SHI WAN CUO  
*Asystasia intrusa*, WU CI ZAO *Ziziphus jujuba* var. *inermis*. **Ref:** 2, 2589.

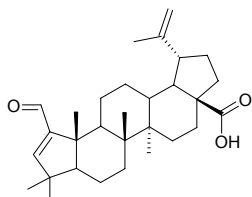


**23012 Zizybeoside II**

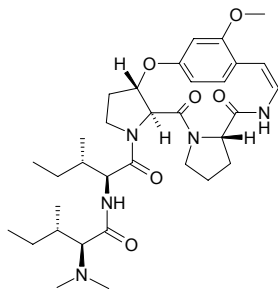
[81417-79-0] C<sub>25</sub>H<sub>38</sub>O<sub>16</sub> (594.57). Source: WU CI ZAO *Ziziphus jujuba* var. *inermis*. Ref: 2.

**23013 Zizyberenic acid**

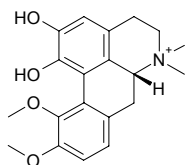
C<sub>30</sub>H<sub>44</sub>O<sub>3</sub> (452.68). White powder, mp 214~216°C, [α]<sub>D</sub><sup>18</sup> = +24° (c = 0.5, MeOH). Pharm: Cytotoxic (K562, ED<sub>50</sub> > 20 μmol/L, control Adriamycin, ED<sub>50</sub> = (0.09±0.03) μmol/L; B16(F-10), ED<sub>50</sub> > 20 μmol/L, Adriamycin, ED<sub>50</sub> = (0.06±0.10) μmol/L; SK-MEL-2, ED<sub>50</sub> > 20 μmol/L, Adriamycin, ED<sub>50</sub> = (0.09±0.3) μmol/L; PC3, ED<sub>50</sub> = (19.9±0.9) μmol/L, Adriamycin, ED<sub>50</sub> = (0.83±0.18) μmol/L; LOX-IMVI, ED<sub>50</sub> = (15.0±1.3) μmol/L, Adriamycin, ED<sub>50</sub> = (0.38±0.33) μmol/L; A549, ED<sub>50</sub> > 20 μmol/L, Adriamycin, ED<sub>50</sub> = (0.67±0.21) μmol/L). Source: DA ZAO *Ziziphus jujuba*. Ref: 5479.

**23014 Zizyphine A**

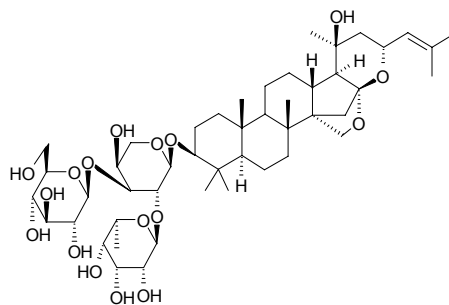
[51059-42-8] C<sub>33</sub>H<sub>49</sub>N<sub>5</sub>O<sub>6</sub> (611.79). Pharm: Antibacterial (gram-positive bacteria and low fungi); inhibits oxidative phosphorylation (plants). Source: XIAO GUO ZAO *Ziziphus oenoplia* (in 1965, the compound was isolated from the plant by E.Zbiral et al.)<sup>[5505]</sup>. Ref: 658, 5505.

**23015 (R)-Zizyphusine**

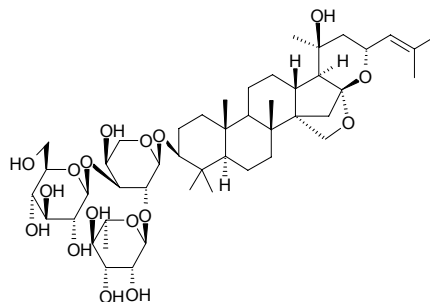
C<sub>20</sub>H<sub>24</sub>NO<sub>4</sub><sup>+</sup> (342.42). Source: DA ZAO *Ziziphus jujuba*, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*. Ref: 660.

**23016 Zizyphussaponin I**

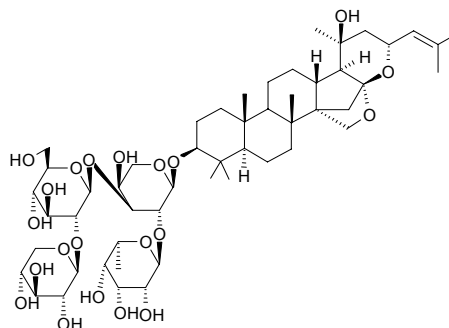
[77943-56-7] C<sub>47</sub>H<sub>76</sub>O<sub>17</sub> (913.12). Colorless acicular crystals, mp 269~272°C (methanol). Pharm: Anti-sweetener (1 mmol/L, inhibits 0.1 mol/L sugar). Source: DA ZAO *Ziziphus jujuba*. Ref: 2, 970, 992.

**23017 Zizyphussaponin II**

[77943-83-0] C<sub>47</sub>H<sub>76</sub>O<sub>17</sub> (913.12). Pharm: Anti-sweetener (1 mmol/L, inhibits 0.1 mol/L sugar). Source: DA ZAO *Ziziphus jujuba*. Ref: 2, 1754.

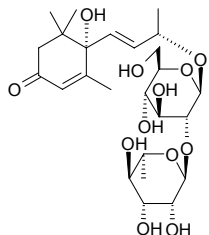
**23018 Zizyphussaponin III**

[77943-54-5] C<sub>52</sub>H<sub>84</sub>O<sub>21</sub> (1045.24). Colorless lamellar crystals, mp 229~233°C (pyridine-water). Pharm: Anti-sweetener (1 mmol/L, inhibits 0.2 mol/L sugar). Source: DA ZAO *Ziziphus jujuba*. Ref: 2, 970, 992.

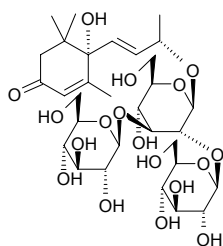


**23019 Zizyoside I**

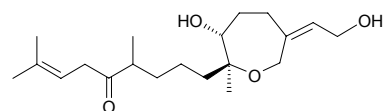
[425-28-7] C<sub>25</sub>H<sub>40</sub>O<sub>12</sub> (532.59). Source: HAI JIN BI XIE *Dioscorea spongiosa* (Rhizome: yield = 0.00020%)<sup>[4692]</sup>, WU CI ZAO *Ziziphus jujuba* var. *inermis*. Ref: 2, 4692.

**23020 Zizyoside II**

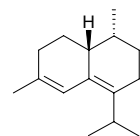
[81425-29-8] C<sub>31</sub>H<sub>50</sub>O<sub>18</sub> (710.73). Source: WU CI ZAO *Ziziphus jujuba* var. *inermis*. Ref: 2.

**23021 Zoapatanol**

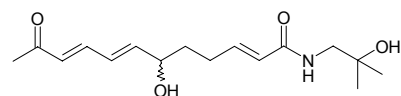
[71117-51-6] C<sub>20</sub>H<sub>34</sub>O<sub>4</sub> (338.49). Pharm: Anti-pregnancy. Source: *Montanoa tomentosa*. Ref: 658.

**23022 Zonarene**

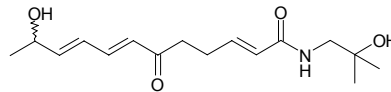
[41929-05-9] C<sub>15</sub>H<sub>24</sub> (204.36). Source: SHENG JIANG *Zingiber officinale*. Ref: 2.

**23023 ZP-amide A**

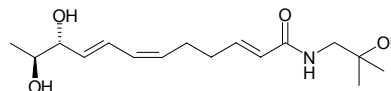
(6*RS*)-(2*E*,7*E*,9*E*)-6-Hydroxy-*N*-(2-hydroxy-2-methylpropyl)-11-oxo-2,7,9-dodecatrienamide C<sub>16</sub>H<sub>25</sub>NO<sub>4</sub> (295.38). Unstable colorless syrup, [α]<sub>D</sub> = 0° (c = 2, acetone). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

**23024 ZP-amide B**

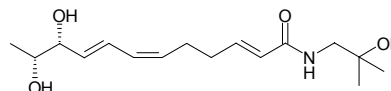
(11*RS*)-(2*E*,7*E*,9*E*)-11-Hydroxy-*N*-(2-hydroxy-2-methylpropyl)-6-oxo-2,7,9-dodecatrienamide C<sub>16</sub>H<sub>25</sub>NO<sub>4</sub> (295.38). Unstable colorless syrup, [α]<sub>D</sub> = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

**23025 ZP-amide C**

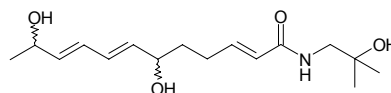
(10*RS*,11*RS*)-(2*E*,6*Z*,8*E*)-10,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,6,8-dodecatrienamide C<sub>16</sub>H<sub>27</sub>NO<sub>4</sub> (297.40). Unstable colorless syrup, [α]<sub>D</sub> = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

**23026 ZP-amide D**

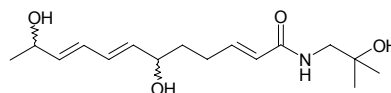
(10*RS*,11*RS*)-(2*E*,6*Z*,8*E*)-10,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,6,8-dodecatrienamide C<sub>16</sub>H<sub>27</sub>NO<sub>4</sub> (297.40). Unstable colorless syrup, [α]<sub>D</sub> = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

**23027 ZP-amide E**

(6*RS*,11*RS*)-(2*E*,7*E*,9*E*)-6,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,7,9-dodecatrienamides C<sub>16</sub>H<sub>27</sub>NO<sub>4</sub> (297.40). Unstable colorless syrup, [α]<sub>D</sub> = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

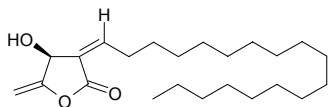
**23028 ZP-amide F**

(6*RS*,11*RS*)-(2*E*,7*E*,9*E*)-6,11-Dihydroxy-*N*-(2-hydroxy-2-methylpropyl)-2,7,9-dodecatrienamides C<sub>16</sub>H<sub>27</sub>NO<sub>4</sub> (297.40). Unstable colorless syrup, [α]<sub>D</sub> = 0° (c = 1, MeOH). Source: HU JIAO HUA JIAO *Zanthoxylum piperitum* (fruit). Ref: 3862.

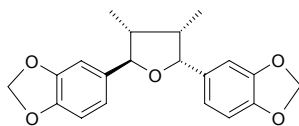


**23029 Zuihoenalide**

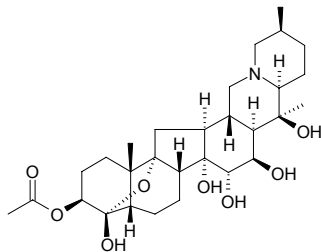
(4*S*,3*Z*)-4-Hydroxy-5-methylene-3-octadecylidene-di-hydro-furan-2-one  
 $C_{23}H_{40}O_3$  (364.57). Colorless oil,  $[\alpha]_D^{25} = -50.2^\circ$  ( $c = 0.015$ ,  $CHCl_3$ ). **Pharm:**  
 Cytotoxic inactive (*in vitro*, 20  $\mu g/mL$ , NUGC-3 cell line, HONE-1 cancer cell  
 line). **Source:** TAI WAN RUI FANG RUN NAN *Machilus zuihoensis* (stem  
 wood). **Ref:** 5287.

**23030 (-)-Zuonin A**

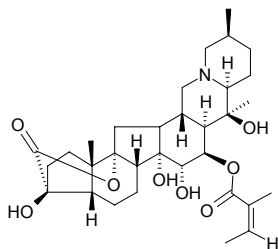
$C_{20}H_{20}O_5$  (340.38). **Pharm:** NO production inhibitor (mus, macrophage-like  
 cell line RAW264.7 activated by LPS/IFN,  $IC_{50} = 88.5 \mu mol/L$ , control  
 Quercetin,  $IC_{50} = 26.8 \mu mol/L$ ). **Source:** HAI FENG TENG *Piper kadsura* [Syn.  
*Piper futokadsura*]. **Ref:** 2537.

**23031 Zygacine**

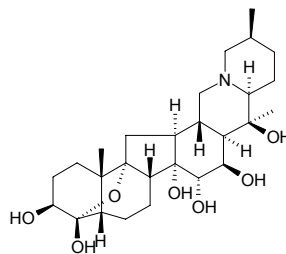
[2777-79-9]  $C_{29}H_{45}NO_8$  (535.68). **Source:** LI LU *Veratrum nigrum*. **Ref:** 6.

**23032 Zygadenilic acid  $\delta$ -lactone-16-angelate**

$C_{32}H_{47}NO_8$  (573.73). mp 235°C. **Source:** LI LU *Veratrum nigrum*. **Ref:** 6.

**23033 Zygadenine**

[545-45-9]  $C_{27}H_{43}NO_7$  (493.65). **Pharm:** Antineoplastic; antihypertensive.  
**Source:** BAI LI LU *Veratrum album*. **Ref:** 658.



(The end of isolated compounds)

# References for Isolated Compounds

## Abbreviations:

*ABY* = *Acta Botanica Yunnanica* (Yunnan Zhiwu Yanjiu)

*APS* = *Acta Pharmaceutica Sinica* (Yaoxue Xuebao)

*CCMM* = *China Journal of Chinese Materia Medica* (Zhongguo Zhongyao Zazhi)

*CTHD* = *Chinese Traditional and Herbal Drugs* (Zhongcaoyao)

*JNP* = *Journal of Natural Products*

*NPRD* = *Natural Product Research and Development* (Tianran Chanwu Yanjiu Yu Kaifa)

*ZYZ* = *Chinese Pharmaceutical Journal* (Zhongguo Yaoxue Zazhi)

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## TCM Plants and Congeners

In this part of the encyclopedia, 2923 TCM original plants (including a few of animals) and 4003 their congeners (with small number of other medicinal plants) list in alphabetical order of *Latin names*. Total number of plants described in the encyclopedia are 6926, which are coded as T0001 to T6926.

For each TCM plant entry in 2923 TCM plants, data terms are listed as following format:

Plant code (a specific code from T0001 to T6926)  
*Latin name* (family); PIN-YIN name; English name.  
 Equivalent plant: if any, a sequence of Latin names.  
Used part: a particular description for the plant.  
TCM Effects: a sequence of traditional TCM effects terms.  
TCM Indications: a sequence of traditional TCM indications terms.  
Isolated compounds: a sequence of compounds codes.

For each congeneric plant and other medicinal plant entry in 4003 plants, data terms are listed as following format:

Plant code (a specific code from T0001 to T6926)  
*Latin name* (family); PIN-YIN name; English name.  
Isolated compounds: a sequence of compounds codes.

### A

- T0001 *Abelmoschus manihot* (Malvaceae); HUANG SHU KUI HUA; Setose Abelmoschus. Used part: flower. TCM Effects: To disinhibit urine and free strangury, quicken blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Strangury syndrome, blood ejection, spontaneous external bleeding, flooding and spotting [= metrorrhagia and metrostaxis], retention of afterbirth, swollen welling abscess and sore toxin, burns and scalds. Isolated compounds: 10887, 11642, 15170, 18317, 18390.
- T0002 *Abelmoschus moschatus* [Syn. *Hibiscus abelmoschus*] (Malvaceae); HUANG KUI; Musk-mallow. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, promote lactation and free stool. TCM Indications: Ardent fever incessant, lung heat cough, dysentery, constipation, postpartum galactostasis, fracture, welling abscess with pus swelling, innominate toxin swelling, burns and scalds. Isolated compounds: 1027, 7734, 19987.
- T0003 *Abies alba* (Pinaceae); OU ZHOU LENG SHAN; European Silver Fir. Isolated compounds: 12843.
- T0004 *Abies balsamea* (Pinaceae); XIANG ZHI LENG SHAN; Balsam Fir. Isolated compounds: 3241, 3242, 3243, 4935, 7751, 9669, 11987.
- T0005 *Abies koreana* (Pinaceae); CHAO XIAN LENG SHAN; Korean Fir. Isolated compounds: 16370, 19622, 19983, 19987.
- T0006 *Abies nephrolepis* (Pinaceae); CHOU LENG SHAN; Khingan Fir. Used part: leaf and bark. TCM Effects: To dispel damp and relieve pain. TCM Indications: Pain in lumbus and legs. Isolated compounds: 1935, 6201.
- T0007 *Abies sibirica* (Pinaceae); XI BO LI YA LENG SHAN; Siberian Fir. Isolated compounds: 1935, 15332.
- T0008 *Abies* sp. (Pinaceae). Isolated compounds: 3194, 3981, 13594, 18003.
- T0009 *Abies tazaotana* (Pinaceae). Isolated compounds: 16088.  
*Abrus cantoniensis* = *Abrus fruticosus*
- T0010 *Abrus fruticosus* [Syn. *Abrus cantoniensis*] (Fabaceae); JI GU CAO; Canton Abrus. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, dissipate stasis and relieve pain. TCM Indications:

- Icterohepatitis, stomachache, wind-damp bone pain, stasis pain from knocks and falls, mammary welling abscess. Isolated compounds: 13, 14, 15, 16, 17, 18, 19, 20, 22, 31, 12113, 12307, 20083, 20127.
- T0011 *Abrus precatorius* (Fabaceae); XIANG SI TENG; Coralhead Plant Vine. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Common cold, swelling pain in throat, lung heat cough, mammary welling abscess, sore and boil, hepatitis. Isolated compounds: 11, 24, 26, 27, 30, 32, 33, 34, 35, 18576, 18582.
- T0012 *Abrus precatorius* (Fabaceae); XIANG SI ZI; Coralhead Plant. Used part: ripe seed. TCM Effects: To clear heat and resolve toxin, dispel phlegm, kill worms, check vomiting. TCM Indications: Vomiting, welling abscess, parotitis, scab and lichen, wind-damp bone pain. Isolated compounds: 12, 13, 21, 23, 24, 25, 27, 28, 29, 30, 31, 36, 1113, 3040, 3575, 4473, 8095, 8846, 9267, 10877, 12114, 14428, 17772, 20083, 20084, 20237, 20369, 21662, 21978.
- T0013 *Abuta imene* (Menispermaceae); YI MEI NI A BU TA CAO. Isolated compounds: 15792.
- T0014 *Abuta rufescens* (Menispermaceae); HONG A BU TA CAO. Isolated compounds: 15792.
- T0015 *Abutilon indicum* (Malvaceae); MO PAN CAO; Indian Abutilon. Used part: whole herb. TCM Effects: To course wind and clear heat, relieve cough and transform phlegm, resolve toxin and disperse swelling. TCM Indications: Common cold, fever, cough, diarrhea, otitis media, deafness, pharyngitis, parotitis, urinary tract infection, swelling toxin of sore and welling abscess, knocks and falls. Isolated compounds: 4446, 8965, 8966.
- T0016 *Acacia arabica* (Fabaceae); A LA BO JIN HE HUAN; Arabian Acacia. Isolated compounds: 7441, 8095, 12714, 17174.
- T0017 *Acacia auriculaeformis* (Fabaceae); ER XING JIN HE HUAN; Auriculate Acacia. Isolated compounds: 2016.
- T0018 *Acacia caffra* (Fabaceae). Isolated compounds: 6982, 6984, 6986, 16197.
- T0019 *Acacia catechu* (Fabaceae); HAI ER CHA; Catechu. Used part: dry decocted paste of branch and trunk without bark. TCM Effects: To contract damp, close sores and engender flesh. TCM Indications: Enduring sores, eczema, mouth sore, painful wound from knocks and falls, bleeding due to external injury, suppurative infection. Isolated compounds: 677, 3308, 6853, 6854, 7802, 18305.
- T0020 *Acacia dealbata* (Fabaceae); YIN BAI JIN HE HUAN; Silver Wattle. Isolated compounds: 7821.
- T0021 *Acacia galpinii* (Fabaceae). Isolated compounds: 6982, 6983, 6984, 6985, 6986, 6987, 16197, 16198.
- T0022 *Acacia karroo* (Fabaceae); KA LUO JIN HE HUAN; Karroo Acacia. Isolated compounds: 22122.
- T0023 *Acacia luederitzii* (Fabaceae); LE SHI JIN HE HUAN; Luederitz Acacia\*. Isolated compounds: 9079.
- T0024 *Acacia mearnsii* (Fabaceae); HEI JING SHU; Wattle. Isolated compounds: 18857, 18858.
- T0025 *Acacia melanoxylon* (Fabaceae); HEI MU JIN HE HUAN; Australian Blackwood. Isolated compounds: 62, 10887.
- T0026 *Acacia mellifera* (Fabaceae); JU MI JIN HE HUAN; Honeyed Acacia. Isolated compounds: 2331, 2334, 2338, 10340, 10342, 10573, 13097, 13098, 16373.
- T0027 *Acacia mollissima* (Fabaceae); ROU JIN HE HUAN; Black Wattle. Isolated compounds: 14899.
- T0028 *Acacia nilotica* (Fabaceae); A LA BO JIAO JIN HE HUAN; Gum-arabic Tree. Isolated compounds: 205, 3308, 3551, 5510, 6853, 6921, 12715, 18317, 18856.
- T0029 *Acacia sieberiana* (Fabaceae); XI BO JIN HE HUAN; Sieber Acacia\*. Isolated compounds: 9467, 17863.
- T0030 *Acacia* sp. (Fabaceae). Isolated compounds: 862, 1057, 1282, 5351, 6533, 7482, 9467, 13296.
- T0031 *Acacia spirorbis* (Fabaceae); LUO XUAN JIN HE HUAN; Spiral Acacia\*. Isolated compounds: 9646.
- T0032 *Acacia* spp. (Fabaceae). Isolated compounds: 59, 9598, 17083.
- T0033 *Acacia tortilis* ssp. *raddiana* (Fabaceae); NIU XUAN JIN HE HUAN; Tortile Acacia\*. Isolated compounds: 18454, 18455.
- T0034 *Acacia victoria* (Fabaceae); WEI DUO LI YA JIN HE HUAN; Bramble Acacia. Isolated compounds: 2036, 2038.
- T0035 *Acalypha hispida* (Euphorbiaceae); CU YING MAO TIE XIAN CAI; Chenille Plant, Red-hot Cat's-tail. Isolated compounds: 4440.
- T0036 *Acanthopanax giraldii* [Syn. *Acanthopanax giraldii* var. *inermis*; *Eleutherococcus giraldii*] (Araliaceae); HONG MAO WU JIA PI; Girald Acanthopanax Root-bark. Used part: stem cortex or root cortex. TCM Effects: To dispel wind-damp, strengthen sinews and bones, quicken blood and disinhibit water. TCM Indications: Wind-cold-damp impediment, hypertonicity and pain, limp wilting sinew and bone, inability of legs and knees, pain in heart and abdomen, mounting *qi* [=hernia], knocks and falls, fracture, vacuity and edema. Isolated compounds: 618, 3342, 9276, 16053, 20569.
- T0037 *Acanthopanax giraldii* var. *hispidus* (Araliaceae); MAO GENG HONG MAO WU JIA; Hispidus Girald Acanthopanax. Isolated compounds: 11465.
- Acanthopanax giraldii* var. *inermis* = *Acanthopanax giraldii*
- T0038 *Acanthopanax gracilistylus* (Araliaceae); WU JIA PI; Slenderstyle Acanthopanax Root-bark. Equivalent plant: *Acanthopanax sessiliflorus*, *Acanthopanax senticosus*. Used part: root cortex. TCM Effects: To dispel wind-damp, supplement liver and kidney, strengthen sinews and bones, quicken blood and vessels. TCM Indications: Wind-cold-damp impediment, pain in lumbus and knees, limp wilting sinew and bone, infant retardation of walking, vacuity and marked emaciation, knocks and falls, fracture, edema, beriberi, damp itchy in genitals. Isolated compounds: 6754, 12893, 14717, 19777, 19983, 20280, 20569.
- T0039 *Acanthopanax japonicus* (Araliaceae); RI BEN WU JIA; Japanese Acanthopanax\*. Isolated compounds: 64, 65, 66, 67, 68, 69, 70, 71, 72.
- T0040 *Acanthopanax koreanum* (Araliaceae); CHAO XIAN WU JIA; Korean Acanthopanax\*. Isolated compounds: 73, 74, 75, 79, 82, 83, 20486.
- T0041 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (Araliaceae); CI WU JIA; Manyprickle Acanthopanax. Used part: root and rhizome. TCM Effects: To boost *qi* and fortify spleen, supplement kidney and quiet spirit, increase appetite. TCM Indications: Spleen-kidney *yang* vacuity, vacuity and hypodynamia, inappetence, aching in lumbus and knees, insomnia and frequent dreaming. Isolated

- compounds: 1102, 1576, 3781, 3782, 3783, 4680, 6115, 6204, 6756, 7439, 9265, 11428, 11429, 11503, 12916, 13641, 15942, 17412, 18317, 18734, 19777, 19983, 20280, 20446, 20569.
- T0042 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (Araliaceae); CI WU JIA PI; Manyprickle Acanthopanax Root-bark. Used part: root cortex. TCM Effects: See *Acanthopanax gracilistylus*. TCM Indications: See *Acanthopanax gracilistylus*. Isolated compounds: 7439.
- T0043 *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*] (Araliaceae); CI WU JIA YE; Manyprickle Acanthopanax Leaf. Isolated compounds: 819, 3519, 3520, 6755, 6756, 15365, 16050, 19983, 22270.
- T0044 *Acanthopanax sessiliflorus* (Araliaceae); WU GENG WU JIA PI; Sessileflower Acanthopanax Root-bark. Used part: root cortex. TCM Effects: See *Acanthopanax gracilistylus*. TCM Indications: See *Acanthopanax gracilistylus*. Isolated compounds: 85, 86, 87, 88, 3040, 3519, 3520, 4680, 16050, 19427, 19777, 19983, 19983, 20369, 20556, 22270.
- T0045 *Acanthopanax trifoliatum* (Araliaceae); CI SAN JIA; Trifoliolate Acanthopanax. Used part: root or root cortex. TCM Effects: To clear heat and resolve toxin, dispel wind and disinherit damp, soothe sinews and quicken blood. TCM Indications: Common cold with fever, sore pharynx, headache, chest pain due to cough, pain in stomach duct, diarrhea and dysentery, pain in rib-side, jaundice, stone strangury, vaginal discharge, wind-damp impediment pain, aching in lumbus and legs, hypertonicity of sinews and bones, fracture due to knocks and falls, epidemic parotitis, mammary welling abscess, toxin swelling of sores, snake or insect bites. Isolated compounds: 91, 92, 93, 11753, 12178, 13264, 17371, 20713.
- T0046 *Acanthospermum glabratum* (Asteraceae); GUANG CI BAO JU; Glabrous Acanthospermum\*. Isolated compounds: 76, 78, 84, 89, 90, 5537, 8489, 10148.
- T0047 *Acanthus ebracteatus* (Acanthaceae); XIAO HUA LAO SHU LE; Smallflower Acanthus\*. Used part: fruit. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: sore and boil with swelling of clove. Isolated compounds: 3815, 6663, 6664, 6665, 6666.
- T0048 *Acanthus ilicifolius* (Acanthaceae); LAO SHU LE; Hollyleaf Acanthus. Used part: root or branch-leaf. TCM Effects: To clear heat and resolve toxin, transform phlegm and disinherit damp, dissipate stasis and relieve pain. TCM Indications: Mumps, scrofula, liver spleen enlargement, stomachache, taxation damage in lumbar muscle, phlegm-heat cough asthma, jaundice, white turbidity, acute hepatitis, chronic hepatitis. Isolated compounds: 63, 77, 1476, 1494, 1557, 2229, 3554, 4136, 4137, 5765, 5766, 8666, 10988, 10989, 10990, 11642, 15935, 18317.
- T0049 *Acer ginnala* (Aceraceae); CHA TIAO QI; Amur Maple. Used part: tender leaf. TCM Effects: To clear liver and brighten eyes. TCM Indications: Headache due to externally contracted wind-heat, liver fire and red eyes, clouded flowery vision. Isolated compounds: 95, 7441.
- T0050 *Acer nikoense* (Aceraceae); MAO GUO QI; Nikoo Maple. Isolated compounds: 96, 97, 98, 100, 101, 102, 103, 104, 105, 106, 1522, 2296, 3308, 3399, 3831, 3832, 4055, 5786, 6233, 6853, 6923, 7007, 7942, 7944, 8311, 10384, 10614, 15595, 18740, 18795, 18797, 19175, 19542, 21897, 21923, 22332.
- T0051 *Acer okamotoanum* (Aceraceae); CHAO XIAN WU JIAO FENG; Okamoto Maple. Isolated compounds: 18340.
- T0052 *Acer platanoides* (Aceraceae); NUO WEI QI; Norway Maple. Isolated compounds: 16836.
- T0053 *Acer pseudoplatanus* (Aceraceae); OU YA QI; Great Maple. Isolated compounds: 14358.
- T0054 *Acer rubrum* (Aceraceae); HONG HUA QI; Red Maple. Isolated compounds: 8118, 8971.
- T0055 *Acer saccharinum* (Aceraceae); YIN BAI QI; Silver Maple. Isolated compounds: 3983, 8971, 19910.
- T0056 *Acer saccharum* (Aceraceae); TANG QI; Sugar Maple. Isolated compounds: 20446.
- T0057 *Acer* sp. (Aceraceae). Isolated compounds: 4055, 8311.
- T0058 *Achillea ageratifolia* (Asteraceae); XI LA SHI CAO; Greek Yarrow. Isolated compounds: 14692.
- T0059 *Achillea alexandri-regis* (Asteraceae); SAI ER WEI YA SHI CAO; Serbian Yarrow. Isolated compounds: 1110, 1113, 1750, 1751, 1752, 1753, 3695, 5414, 10346, 10347, 10348, 10349, 13497, 13498, 13499, 13500, 17415, 19087, 19983.
- T0060 *Achillea alpina* [Syn. *Achillea sibirica*] (Asteraceae); YI ZHI HAO; Alpine Yarrow. Used part: herb. TCM Effects: To dispel wind and relieve pain, quicken blood, resolve toxin. TCM Indications: Bleeding of digestive tract, bleeding from hemorrhoids, acute enteritis, infection from wounds, gastrointestinal ulcer, common cold with fever, head wind headache, toothache, wind-damp impediment pain, abdominal pain, amenorrhea due to blood stasis, abdominal lump glomus, knocks and falls, swelling toxin of welling abscess and sore, snake bite. Isolated compounds: 538, 552, 553, 3048, 3464, 4749, 8228.
- T0061 *Achillea asiatica* (Asteraceae); YA ZHOU SHI; Asiatic Yarrow. Isolated compounds: 1201, 1202, 1203.
- T0062 *Achillea fragrantissima* (Asteraceae); JI XIANG SHI CAO; Extreme-fragrant Yarrow\*. Isolated compounds: 3743.
- T0063 *Achillea holosericea* (Asteraceae); XI LA SI MAO SHI; Greek Silk-hair Yarrow\*. Isolated compounds: 287, 16432.
- T0064 *Achillea leptophylla* (Asteraceae); XI YE SHI; Fine-leaved Yarrow. Isolated compounds: 20505.
- T0065 *Achillea millefolium* (Asteraceae); YANG SHI CAO; Common Yarrow. Used part: whole herb. TCM Effects: To dispel wind, quicken blood, relieve pain, resolve toxin. TCM Indications: Wind-damp impediment pain, knocks and falls, amenorrhea due to blood stasis, swelling toxin of welling abscess and sore, bleeding from hemorrhoids. Isolated compounds: 538, 1476, 1792, 2071, 2325, 2550, 2555, 2557, 2887, 3241, 3242, 4550, 4749, 7521, 7557, 7881, 8031, 11754, 14757, 14854, 19211, 20369, 21331, 21350, 21618, 21662, 22461.
- T0066 *Achillea moschata* (Asteraceae); SHE XIANG SHI CAO; Musky Yarrow. Isolated compounds: 2325, 3464, 7521.  
*Achillea sibirica* = *Achillea alpina*
- T0067 *Achillea* sp. (Asteraceae). Isolated compounds: 552, 2044, 5236, 13605.
- T0068 *Achillea* spp. (Asteraceae). Isolated compounds: 17719, 19312.
- T0069 *Achillea wilsoniana* (Asteraceae); YUN NAN SHI; Wilson Yarrow.

- Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-damp pain, stomachache, toothache, stasis swelling from knocks and falls, amenorrhea and dysmenorrhea, swelling toxin of welling abscess and sore, snake or insect bites. Isolated compounds: 538.
- T0070 *Achras* spp. (Sapotaceae). Isolated compounds: 13098.
- T0071 *Achyranthes aspera* (Amaranthaceae); TU NIU XI; Common Achyranthes. Equivalent plant: *Achyranthes aspera* var. *indica*. Used part: root and rhizome. TCM Effects: To quicken blood and dissipate stasis, dispel damp and disinhibit urine, clear heat and resolve toxin. TCM Indications: Amenorrhea, dysmenorrhea, menstrual disorder, knocks and falls, pain in joints due to rheumatism, strangury, edema, fever due to external contraction, malaria, dysentery, sore pharynx, swollen welling abscess and clove sores. Isolated compounds: 539, 540, 541, 542, 6679, 22044.
- T0072 *Achyranthes aspera* var. *indica* (Amaranthaceae); DUN YE TU NIU XI; Obtuseleaf Achyranthes. Used part: root and rhizome. TCM Effects: See *Achyranthes aspera*. TCM Indications: See *Achyranthes aspera*. Isolated compounds: 6679.
- T0073 *Achyranthes bidentata* (Amaranthaceae); NIU XI; Twotooth Achyranthes. Used part: root. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, quicken blood and regulate menstruation, disinhibit urine and free strangury. TCM Indications: Aching in lumbus and knees, amenorrhea due to blood stasis, dysmenorrhea, postpartum blood stasis abdominal pain, concretion and conglomeration, retention of placenta, heat strangury, blood strangury, knocks and falls, swollen welling abscess and malign sore, swelling pain in throat. Isolated compounds: 543, 544, 2363, 2364, 3525, 3615, 5404, 6679, 11067, 11068, 11069, 16050, 19043, 20168, 20169.
- T0074 *Achyranthes fauriei* (Amaranthaceae); RI BEN NIU XI; Japanese Achyranthes. Isolated compounds: 11067.
- T0075 *Acnistus arborescens* (Solanaceae); BA XI YE YAN; Brazilian Wild Tobacco, Marianeira. Isolated compounds: 302, 5324.
- T0076 *Aconitum anthora* (Ranunculaceae); HUANG WU TOU; Yellow Monkshood. Isolated compounds: 1964.
- T0077 *Aconitum balfourii* (Ranunculaceae); YA DONG WU TOU; Yadong Monkshood. Used part: tuberoid. TCM Effects: See *Aconitum carmichaeli*. TCM Indications: See *Aconitum carmichaeli*. Isolated compounds: 18017.
- T0078 *Aconitum barbatum* var. *puberulum* [Syn. *Aconitum ochranthum*] (Ranunculaceae); NIU BIAN; Puberulent Monkshood. Used part: root. TCM Effects: To dispel wind and relieve pain, relieve cough and transform phlegm, calm asthma. TCM Indications: Wind-damp with painful swollen joints, pain in lumbus and legs, asthma and cough, scrofula, scab and lichen. Isolated compounds: 12510, 13169, 18166, 18167, 18168, 18169, 18531.
- T0079 *Aconitum brachypodium* (Ranunculaceae); XUE SHANG YI ZHI HAO; Shortstalk Monkshood. Equivalent plant: *Aconitum nagarum* var. *lasiandrum*. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp bone pain, knocks and falls, pain in limbs, toothache, toxin swelling of sores, pain from carcinoma, pain in joints. Isolated compounds: 554, 2741, 2742, 13189.
- Aconitum bullatifolium* = *Aconitum nagarum* var. *heterotrichum*
- T0080 *Aconitum bullatifolium* var. *homotrichum* [Syn. *Aconitum nagarum*] (Ranunculaceae); BAO SHAN WU TOU; Paoshan Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and overcome damp, free network vessels and relieve pain. TCM Indications: Wind-cold-damp impediment, headache. Isolated compounds: 551, 2737, 2738, 2739, 2740, 10875.
- T0081 *Aconitum bulleyanum* (Ranunculaceae); DIAN XI WU TOU; Yunnanwest Monkshood. Isolated compounds: 4211, 22482, 22938.
- T0082 *Aconitum campylorrhynchum* (Ranunculaceae); WAN ZHUO WU TOU; Curvebeak Monkshood. Isolated compounds: 384.
- T0083 *Aconitum carmichaeli* (Ranunculaceae); FU ZI; Prepared Common Monkshood Daughter Root. Equivalent plant: *Aconitum carmichaeli* cv. Used part: daughter root. TCM Effects: To return yang and treat collapse, supplement fire and reinforce yang. TCM Indications: Yang-collapse vacuity desertion, cold limbs and faint pulse, impotence, uterus cold, cold pain in heart and abdomen, vacuity cold chronic diarrhea and dysentery, yin cold edema, yang vacuity external contraction, wind-cold-damp impediment, yin flat abscess and sores. Isolated compounds: 554, 1059, 1060, 1061, 1292, 2738, 2739, 3201, 3713, 4211, 4992, 4999, 5000, 5001, 5007, 5008, 5033, 5034, 5036, 5037, 5067, 5071, 5072, 5136, 5149, 5166, 5458, 8042, 10875, 11373, 11728, 12161, 12898, 12899, 13794, 15418, 20650, 22237, 22394, 22482.
- T0084 *Aconitum carmichaeli* (Ranunculaceae); WU TOU; Common Monkshood. Equivalent plant: *Aconitum karakolicum*, *Aconitum balfourii*. Used part: tuberoid. TCM Effects: To dispel wind and eliminate damp, warm channels, dissipate cold and relieve pain. TCM Indications: Wind-cold-damp impediment, pain in joints, numbness in limbs, hemiplegia, head wind headache, cold pain in heart and abdomen, cold mounting with pain, stasis pain from knocks and falls, swelling toxin of flat abscess. Isolated compounds: 554, 877, 2247, 2738, 2742, 3201, 3712, 5067, 9574, 9575, 10875, 10962, 11083, 11084, 11085, 11373, 11728, 12161, 13794, 19198, 19701, 19702, 19703, 20075, 20076, 20650, 22237.
- T0085 *Aconitum carmichaeli* cv (Ranunculaceae); ZHONG BA E ZHANG YE FU ZI; Zhongba Monkshood Daughter Root\*. Used part: daughter root. TCM Effects: See *Aconitum carmichaeli*. TCM Indications: See *Aconitum carmichaeli*. Isolated compounds: 12162, 19701.
- T0086 *Aconitum chasmanthum* (Ranunculaceae); ZHAN HUA WU TOU; Patentflower Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and overcome damp, relieve pain. TCM Indications: Wind-cold-damp impediment, pain in joints. Isolated compounds: 3483, 11012.
- T0087 *Aconitum chrysotrichum* (Ranunculaceae); HUANG MAO WU TOU; Yellowhair Monkshood. Isolated compounds: 3483.
- T0088 *Aconitum coreanum* (Ranunculaceae); HUANG HUA WU TOU; Korean Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and transform phlegm, settle fright epilepsy, dissipate cold and relieve pain. TCM Indications: Wind stroke with congesting phlegm, deviated eyes and mouth, epilepsy, migraine, headache, wind-phlegm dizziness,

- tetanus, infant fright wind, wind-damp impediment pain, sores scab and lichen, damp itchy skin. Isolated compounds: 9045, 9046, 9047, 9048, 9049, 9050, 9051, 9052, 10875.
- T0089 *Aconitum crassicaule* (Ranunculaceae); CU JING WU TOU; Thickstem Monkshood. Isolated compounds: 3483, 4210, 15228.
- T0090 *Aconitum delavayi* (Ranunculaceae); MA ER SHAN WU TOU; Delavy Monkshood. Used part: tuberoid. TCM Effects: To dispel wind-damp, relieve pain. TCM Indications: Wind-cold-damp impediment, pain in joints. Isolated compounds: 4993.
- T0091 *Aconitum excelsum* (Ranunculaceae); ZI HUA GAO WU TOU; Purpleflower High Monkshood. Isolated compounds: 5073, 7673, 12510, 14513, 14570, 14798.
- T0092 *Aconitum falconeri* (Ranunculaceae); FA KANG WU TOU; Falcon Monkshood\*. Isolated compounds: 7706, 11012, 18017.
- T0093 *Aconitum ferox* (Ranunculaceae); NI BO ER WU TOU; Nepal Monkshood. Isolated compounds: 2372, 11012, 18017.
- T0094 *Aconitum finetianum* (Ranunculaceae); GAN WAN WU TOU; Finet Monkshood. Used part: root. TCM Effects: To dispel wind and relieve pain, harmonize blood and vanquish toxin. TCM Indications: Wind-damp impediment pain, knocks and falls. Isolated compounds: 2042, 4741, 4745, 4771, 5009, 5035, 7800, 11112, 11476, 12510, 15658, 18168, 18531.
- T0095 *Aconitum fischeri* (Ranunculaceae); BO YE WU TOU; Azure Monkshood. Isolated compounds: 11867.
- T0096 *Aconitum forrestii* [Syn. *Aconitum likiangense*] (Ranunculaceae); LI JIANG WU TOU; Likiang Monkshood\*. Used part: tuberoid. TCM Effects: To dispel wind-damp, settle pain. TCM Indications: Painful joints due to rheumatism, knocks and falls. Isolated compounds: 3483, 7880, 12781, 12935, 22482, 22938.
- T0097 *Aconitum franchetii* (Ranunculaceae); DA DU WU TOU; Franchet Monkshood. Isolated compounds: 20650.
- T0098 *Aconitum geniculatum* (Ranunculaceae); XI BAN WU TOU; Genuiculate Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and dissipate cold, quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-cold-damp impediment, reversal cold of limbs, knocks and falls, sore toxin. Isolated compounds: 8270, 22938.
- T0099 *Aconitum gymnanthum* (Ranunculaceae); LU RUI WU TOU; Nakedstamen Monkshood. Used part: root, leaf and flower. TCM Effects: To dispel wind-damp, warm center and dissipate cold, kill worms and relieve pain. TCM Indications: Rheumatism numbness, pain in joints, leprosy, stomachache, common cold, influenza, intestinal parasitic disease. Isolated compounds: 9103, 14478.
- T0100 *Aconitum hemsleyanum* var. *circinacum* (Ranunculaceae); QUAN JU GUA YE WU TOU; Circinate Hemsley Monkshood. Used part: tuberoid. TCM Effects: See *Aconitum hemsleyanum*. TCM Indications: See *Aconitum hemsleyanum*. Isolated compounds: 3735, 3736.
- T0101 *Aconitum hemsleyanum* (Ranunculaceae); GUA YE WU TOU; Hemsley Monkshood. Equivalent plant: *Aconitum hemsleyanum* var. *circinacum*. Used part: tuberoid. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Painful joints due to rheumatism, pain in lumbus and legs, knocks and falls, innominate toxin swelling, lichen sore. Isolated compounds: 1366, 2738, 3483, 4792, 6915, 9356, 11012, 18016, 19107, 19702, 20650, 22938.
- T0102 *Aconitum hemsleyanum* var. *leueanthus* (Ranunculaceae); ZHUA KUI GUA YE WU TOU; Unguiculate Hemsley Monkshood. Isolated compounds: 3483, 4210, 4774, 5473, 7700, 7935, 12728, 12729, 12730, 12731, 20650.
- T0103 *Aconitum heterophyllum* (Ranunculaceae); YI YE WU TOU; Heteroleaf Monkshood\*. Isolated compounds: 1964, 9459, 9472.
- T0104 *Aconitum japonicum* (Ranunculaceae); RI BEN WU TOU; Japanese Monkshood\*. Isolated compounds: 5067, 11728, 20648.
- T0105 *Aconitum karakolicum* (Ranunculaceae); DUO GEN WU TOU; Manyroot Monkshood. Used part: tuberoid. TCM Effects: See *Aconitum carmichaeli*. TCM Indications: See *Aconitum carmichaeli*. Isolated compounds: 551, 3201, 12160, 15250, 17127, 20076.
- T0106 *Aconitum kirinense* (Ranunculaceae); JI LIN WU TOU; Kirin Monkshood\*. Used part: root. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain. TCM Indications: Wind-cold-damp impediment, hypertonicity of limbs, cold pain in heart and abdomen, swelling toxin of welling abscess and sore, toothache. Isolated compounds: 388, 392, 821, 7673, 8378, 12668, 12669.
- T0107 *Aconitum kongboense* (Ranunculaceae); GONG BU WU TOU; Gongbo Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Painful joints due to rheumatism, knocks and falls, poisonous insect stings. Isolated compounds: 7936, 12259.
- T0108 *Aconitum kusnezoffii* (Ranunculaceae); BEI WU TOU; Kusnezoff Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and overcome damp, warm channels and dissipate cold, disperse swelling and relieve pain. TCM Indications: Wind-cold-damp impediment, pain in joints, head wind headache, wind stroke with hemiplegia, cold pain in heart and abdomen, cold mounting with pain, knocks and falls, blood stasis swelling and pain, swelling toxin of flat abscess, anesthesia. Isolated compounds: 304, 554, 2214, 2231, 10875, 12668, 13794, 17672, 22938.
- T0109 *Aconitum leave* (Ranunculaceae). Isolated compounds: 508, 5008, 12510, 13872, 18169, 20501.
- T0110 *Aconitum legendrei* (Ranunculaceae); MIAN NING WU TOU; Legendre Monkshood. Isolated compounds: 20650.
- T0111 *Aconitum leucostomum* (Ranunculaceae); BAI HOU WU TOU; Whitethroat Monkshood. Isolated compounds: 508, 6227, 12668. *Aconitum likiangense* = *Aconitum forrestii*
- T0112 *Aconitum lijestradii* (Ranunculaceae); GONG GA SHAN WU TOU; Konka Mountain Monkshood. Isolated compounds: 4792, 4806, 8271, 13065, 18016, 19107.
- T0113 *Aconitum lucidusculum* (Ranunculaceae); GUANG ZE WU TOU; Lucid Monkshood\*. Isolated compounds: 13057.
- T0114 *Aconitum lycocotum* (Ranunculaceae); LANG DU WU TOU; Badgersbane. Isolated compounds: 13169, 13189.
- T0115 *Aconitum monticola* (Ranunculaceae); SHAN DI WU TOU; Country Monkshood. Isolated compounds: 5035, 20076. *Aconitum nagarum* = *Aconitum bullatifolium* var. *homotrichum*
- T0116 *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*]



- (Ranunculaceae); XIAO BAI CHENG; Unequalhair Paoshan Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp pain, taxation damage in lumbar muscle, sprain in joints, intercostal neuralgia, wind stroke paralysis, early stage of welling abscess and flat abscess. Isolated compounds: 15228.
- T0117 *Aconitum nagarum* var. *lasiandrum* (Ranunculaceae); XUAN WEI WU TOU; Haoryanther Paoshan Monkshood. Used part: root. TCM Effects: See *Aconitum brachypodum*. TCM Indications: See *Aconitum brachypodum*. Isolated compounds: 304, 20075, 20076.
- T0118 *Aconitum napellus* (Ranunculaceae); OU WUTOU; Aconite. Isolated compounds: 552, 554, 10875, 13794, 15250.
- T0119 *Aconitum napellus* ssp. *neomontanum* (Ranunculaceae). Isolated compounds: 12030, 12034, 18333.
- T0120 *Aconitum nemorum* (Ranunculaceae); LIN DI WU TOU; Woodland Monkshood. Isolated compounds: 20650.  
*Aconitum ochranthum* = *Aconitum barbatum* var. *puberulum*
- T0121 *Aconitum orientale* (Ranunculaceae); GAO JIA SUO WU TOU; Eastern Monkshood. Isolated compounds: 2042, 12510.
- T0122 *Aconitum pendulum* (Ranunculaceae); TIE BANG CHUI; Pendulous Monkshood. Used part: tuberoid. TCM Effects: To quicken blood and dispel stasis, dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Knocks and falls, fracture, wind-damp lumbago, swollen welling abscess and malign sore, innominate toxin swelling, scrofula, frostbite, poisonous snake bite. Isolated compounds: 2231, 16803, 16808.
- T0123 *Aconitum polyschistum* (Ranunculaceae); DUO LIE WU TOU; Manypltted Monkshood. Used part: tuberoid. TCM Effects: To dispel wind and overcome damp, dissipate cold and relieve pain. TCM Indications: Wind-cold-damp impediment, hypertonicity of limbs, knocks and falls, innominate toxin swelling. Isolated compounds: 2231, 17672, 17673, 17674, 17675.
- T0124 *Aconitum pseudohuilense* (Ranunculaceae); LEI BO WU TOU; Leabo Monkshood. Isolated compounds: 12667, 12668, 12669.
- T0125 *Aconitum pseudostapfianum* (Ranunculaceae); NI YU LONG WU TOU; Pseudostapfia Monkshood. Used part: tuberoid. TCM Effects: To dispel wind-damp, relieve pain. TCM Indications: Wind-damp impediment pain, pain in lumbus and legs. Isolated compounds: 2248.
- T0126 *Aconitum pukeese* (Ranunculaceae); PU GE WU TOU; Pukee Monkshood. Isolated compounds: 18189.
- T0127 *Aconitum sachalinense* (Ranunculaceae); KU YE WU TOU; Sachalin Monkshood\*. Isolated compounds: 11867.
- T0128 *Aconitum sanyoense* (Ranunculaceae); SHAN YANG WU TOU; Shanyang Monkshood\*. Isolated compounds: 15658.
- T0129 *Aconitum septentrionale* (Ranunculaceae); BEI FANG WU TOU; Northern Monkshood\*. Isolated compounds: 12510, 18168, 22199.
- T0130 *Aconitum sinomontanum* (Ranunculaceae); GAO WU TOU; Tall Monkshood. Used part: root. TCM Effects: To dispel wind and eliminate damp, rectify *qi* and relieve pain, quicken blood and disperse swelling. TCM Indications: Wind-damp impediment pain, swelling pain in joints, knocks and falls, stomachache, distention fullness in chest and abdomen, acute bacillary dysentery, chronic bacillary dysentery, acute enteritis, chronic enteritis, scrofula, sore and boil. Isolated compounds: 12510, 18531, 19956, 19957, 22938.
- T0131 *Aconitum soongaricum* (Ranunculaceae); ZHUN GE ER WU TOU; Dzungaria Monkshood. Isolated compounds: 20076.
- T0132 *Aconitum* sp. (Ranunculaceae). Isolated compounds: 1964, 12736, 12737, 12738.
- T0133 *Aconitum spicatum* (Ranunculaceae); SUI ZHUANG WU TOU; Spiked Monkshood. Isolated compounds: 2372, 18017.
- T0134 *Aconitum subcuneatum* (Ranunculaceae); XIE XING WU TOU; Cuneate Monkshood\*. Isolated compounds: 3483, 11867.
- T0135 *Aconitum sungpanense* (Ranunculaceae); SONG PAN WU TOU; Sungpan Monkshood. Used part: root. TCM Effects: To dispel wind and overcome damp, dissipate cold and relieve pain, dissipate stasis and disperse swelling. TCM Indications: Wind-cold-damp impediment, pain in joints, toothache, knocks and falls, swelling toxin of welling abscess and sore, neuralgia. Isolated compounds: 331, 5473, 22938.
- T0136 *Aconitum talassicum* (Ranunculaceae); TA LA WU TOU; Tala Monkshood\*. Isolated compounds: 11728, 20650.
- T0137 *Aconitum tanguticum* (Ranunculaceae); GAN QING WU TOU; Tangut Monkshood. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Hepatitis, cholecystitis, pneumonia, pharyngolaryngitis, gastroenteritis, common cold with fever. Isolated compounds: 2243, 9459, 9472, 9646, 20650, 20676, 20689.
- T0138 *Aconitum umbrosum* (Ranunculaceae); CAO DI WU TOU; Meadow Monkshood. Used part: root. TCM Effects: To dispel wind and dissipate cold, dispel damp and relieve pain. TCM Indications: Wind-cold-damp impediment, pain in limbs, hypertonicity of limbs, neuralgia, knocks and falls, osteoarthritis, cold pain in heart and abdomen, welling abscess and flat abscess with clove sore. Isolated compounds: 781, 22199.
- T0139 *Aconitum variegatum* (Ranunculaceae); BAN HUA WU TOU; Manchurian Monkshood. Isolated compounds: 396, 4867, 7415, 7447, 9895, 20650, 22348, 22390, 22391, 22393.
- T0140 *Aconitum violaceum* (Ranunculaceae); ZI WU TOU; Violet Monkshood\*. Isolated compounds: 2372, 11012.
- T0141 *Aconitum zeravschanicum* (Ranunculaceae); ZE WU TOU. Isolated compounds: 9459, 15658.
- T0142 *Acorus calamus* (Araceae); BAI CHANG; Drug Sweetflag. Used part: rhizome. TCM Effects: To transform phlegm and open orifices, dispel damp and fortify stomach, kill worms and relieve itch. TCM Indications: Stupor due to phlegm reversal, wind stroke, epilepsy, fright palpitation and amnesia, tinnitus and deafness, food accumulation abdominal pain, diarrhea and dysentery, wind-damp pain, eczema, scab sore. Isolated compounds: 550, 560, 561, 564, 565, 566, 957, 1835, 1840, 2435, 2550, 2934, 2939, 3048, 3241, 3242, 4398, 7019, 7521, 9486, 11193, 11302, 11408, 11713, 11717, 13141, 14530, 14531, 17809, 19852, 21929.
- T0143 *Acorus calamus* var. *angustatus* (Araceae); RI BEN CHANG PU; Japanese Sweetflag\*. Isolated compounds: 1835.
- T0144 *Acorus gramineus* (Araceae); JIN QIAN PU; Grassleaf Sweetflag. Used part: Rhizome. TCM Effects: See *Acorus tatarinowii*. TCM Indications: See *Acorus tatarinowii*. Isolated compounds: 957, 1835, 2435, 3241, 3242, 9669, 13883, 14531.

- T0145 *Acorus gramineus* (Araceae); JIN QIAN PU YE; Grassleaf Sweetflag Leaf. Used part: leaf. TCM Indications: Great wind sore, scab sore. Isolated compounds: 957, 1835.
- T0146 *Acorus tatarinowii* (Araceae); SHI CHANG PU; Grassleaved Sweetflag. Equivalent plant: *Acorus gramineus*. Used part: Rhizome. TCM Effects: To transform phlegm and open orifices, transform damp and move *qi*, dispel wind and eliminate impediment, disperse swelling and relieve pain. TCM Indications: Febrile diseases clouded spirit, phlegm reversal, amnesia, tinnitus, deafness, distending pain in stomach duct and abdomen, food-denying dysentery, wind-damp impediment pain, knocks and falls, scab and lichen with welling abscess and flat abscess. Isolated compounds: 1834, 1835, 7056, 7521, 7523, 11194.
- T0147 *Acritopappus* spp. Isolated compounds: 419.
- T0148 *Acronychia baueri* (Rutaceae); BAO RUI SHAN YOU GAN; Bauer Acronychia. Isolated compounds: 569, 570.
- T0149 *Acronychia haplophylla* (Rutaceae); DAN YE YOU GAN; Singleleaf Acronychia\*. Isolated compounds: 570.
- T0150 *Acronychia laurifolia* (Rutaceae); YUE GUI YE SHAN YOU GAN; Laurel-leaf Acronychia\*. Isolated compounds: 14364.
- T0151 *Acronychia pedunculata* (Rutaceae); SHA TANG MU; Pedunculate Acronychia. Used part: wood or root. TCM Effects: To move *qi* and quicken blood, fortify spleen and suppress cough. TCM Indications: Wind-damp pain in lumbus and legs, stasis pain from knocks and falls, *qi* pain in heart and stomach, bronchitis, common cold, cough. Isolated compounds: 570, 571, 572, 573, 574, 575, 577, 2169, 5852, 6022.
- T0152 *Acronychia* sp. (Rutaceae). Isolated compounds: 12254.
- T0153 *Acronychia vestita* (Rutaceae); BAO SHAN YOU GAN; Vested Acronychia\*. Isolated compounds: 577.
- T0154 *Acroptilon repens* (Asteraceae); DING YU JU; Creeping Acroptilon. Used part: aerial parts. TCM Effects: To dispel wind-damp, resolve heat toxin. TCM Indications: Swelling toxin of welling abscess and sore, rheumatic arthritis. Isolated compounds: 576, 17127, 18627.
- T0155 *Actinidia arguta* (Actinidiaceae); MI HOU LI; Bower Actinidia. Used part: fruit. TCM Effects: To enrich *yin* and clear heat, eliminate vexation and allay thirst, free strangury. TCM Indications: Febrile diseases fluid damage, sand strangury, stone strangury, hypovitaminosis C, gum hemorrhage, hepatitis. Isolated compounds: 582, 2887, 3308, 5763, 9818.
- T0156 *Actinidia arguta* (Actinidiaceae); MI HOU LI GEN; Bower Actinidia Root\*. Used part: root. TCM Effects: To clear heat and disinhibit damp, dispel wind and eliminate impediment, resolve toxin and disperse swelling, stanch bleeding. TCM Indications: Jaundice, indigestion, vomiting, wind-damp impediment pain, carcinoma in digestive tract, welling abscess and sores with sore and boil, knocks and falls, bleeding due to external injury, breast milk stoppage. Isolated compounds: 12080, 18385.
- T0157 *Actinidia callosa* var. *henryi* (Actinidiaceae); JING LI MI HOU TAO; Henry Actinidia. Used part: root cortex. TCM Effects: To clear heat, disinhibit damp, disperse edema, relieve pain. TCM Indications: Damp-heat edema, intestinal welling abscess, swelling toxin of welling abscess and sore. Isolated compounds: 2887, 5763, 9818.
- T0158 *Actinidia chinensis* (Actinidiaceae); MI HOU TAO; Yangtao Actinidia. Used part: fruit. TCM Effects: To resolve heat, allay thirst, fortify stomach, free strangury. TCM Indications: Heat vexation, diabetes mellitus, dry cough due to lung dryness, indigestion, damp-heat jaundice, stone strangury, hemorrhoids. Isolated compounds: 582, 2887, 3765, 5763, 9818, 18838, 22975.
- T0159 *Actinidia chrysantha* (Actinidiaceae); JIN HUA MI HOU TAO; Goldflower Actinidia. Isolated compounds: 2887, 5763, 9818.
- T0160 *Actinidia deliciosa* (Actinidiaceae); MEI WEI MI HOU TAO; Delicious Actinidia. Isolated compounds: 2887, 5763, 9818.
- T0161 *Actinidia eriantha* (Actinidiaceae); MAO HUA MI HOU TAO; Hairyflower Actinidia. Used part: root and root cortex. TCM Effects: To resolve toxin and disperse swelling, clear heat and disinhibit damp. TCM Indications: Heat toxin swollen welling abscess, mammary welling abscess, aphonia due to lung heat, damp-heat dysentery, strangury-turbidity and vaginal discharge, wind-damp impediment pain, carcinoma of stomach, carcinoma of esophagus, mastocarcinoma, knocks and falls. Isolated compounds: 2887, 5763, 9818.
- T0162 *Actinidia glaucophylla* (Actinidiaceae); HUA NAN MI HOU TAO; Greyleaf Actinidia. Isolated compounds: 2887, 5763, 9818.
- T0163 *Actinidia latifolia* (Actinidiaceae); KUO YE MI HOU TAO; Broadleaf Actinidia. Used part: fruit. TCM Effects: To boost *qi* and nourish *yin*. TCM Indications: Enduring illness vacuity, tuberculosis. Isolated compounds: 2887, 5763, 9818.
- T0164 *Actinidia polygama* (Actinidiaceae); MU TIAN LIAO; Silvertine Actinidia. Used part: branchlet-leaf. TCM Effects: To dispel wind-damp, warm channels and relieve pain, disperse concretion and conglomeration. TCM Indications: Wind stroke with hemiplegia, wind-cold-damp impediment, lumbago, mounting *qi*, concretion conglomeration accumulation and gathering, *qi* dysentery. Isolated compounds: 581, 582, 583, 584, 937, 2284, 2887, 5680, 5763, 6320, 9818, 10008, 10365, 11144, 11145, 11149, 11181, 11196, 11378, 11467, 11559, 11560, 12080, 13596, 13597, 13598, 15434, 15437, 15484, 18385, 22855.
- T0165 *Actinidia rubricaulis* var. *coriacea* (Actinidiaceae); GE YE MI HOU TAO; Coriaceousleaf Actinidia. Used part: fruit. TCM Effects: Anticarcinoma. TCM Indications: Tumor. Isolated compounds: 2887, 5763, 9818.
- T0166 *Actinodaphne lancifolia* (Lauraceae); PI ZHEN YE HUANG ROU NAN; Lanceleaf Actinodaphne\*. Isolated compounds: 586, 587.
- T0167 *Adenanthera pavonina* (Fabaceae); HAI HONG DOU; Sandal Beadtree. Used part: seed. TCM Effects: To course wind and clear heat, dry damp and resolve itch, moisten skin. TCM Indications: Wandering wind of head and face. Isolated compounds: 6632, 12800, 15935.
- T0168 *Adenium obesum* (Apocynaceae); SHA MO QIANG WEI; Desert Rose. Isolated compounds: 15497.
- T0169 *Adenophora triphylla* var. *japonica* (Campanulaceae); RI BEN SAN YE SHA SEN; Japanese Trileaf Ladybell\*. Isolated compounds: 2792, 7437.
- T0170 *Adhatoda vasica* (Acanthaceae); DA BO GU; Malabanut. Used part: branchlet-leaf. TCM Effects: To quicken blood and relieve pain, joint sinews and bones, stanch bleeding. TCM Indications: Sinew and bone wound, sprain, blood stasis swelling and pain, wind-damp impediment pain, lumbago, profuse menstruation, flooding and spotting. Isolated

- compounds: 627, 1291, 2318, 16770, 22349, 22350, 22351, 22352.
- T0171 *Adiantum capillus-veneris* (Adiantaceae); ZHU ZONG CAO; Southern Maidenhair. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury. TCM Indications: Common cold with fever, lung heat cough, damp-heat diarrhea, dysentery, strangury-turbidity, vaginal discharge, mammary welling abscess, scrofula, poisonous snake bite. Isolated compounds: 632, 1935, 2901, 7099, 7760, 10123, 10541, 12098, 16042, 16043, 18373, 18414.
- T0172 *Adiantum caudatum* (Adiantaceae); BIAN YE TIE XIAN JUE; Walking Maidenhair. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and disperse edema. TCM Indications: Dysentery, edema, dribbling and inhibited voidings of urination, mammary welling abscess, poisonous snake bite, oral ulcer. Isolated compounds: 632, 10119, 10120, 10402, 11197, 15363, 15756.
- T0173 *Adiantum lunulatum* (Adiantaceae); BAN YUE XING TIE XIAN JUE; Philippine Maidenhair\*. Used part: whole herb. TCM Effects: To clear lung and relieve cough, disinhibit water and free strangury, disperse welling abscess and promote lactation. TCM Indications: Lung heat cough, dribbling pain of urination, mammary welling abscess with swelling and pain, breast milk stoppage. Isolated compounds: 7178.
- T0174 *Adiantum monochlamys* (Adiantaceae); DAN GAI TIE XIAN JUE; Monochlamys Maidenhair. Used part: whole herb. TCM Effects: To clear heat and resolve phlegm, resolve toxin. TCM Indications: Lung heat cough, common cold with fever, swollen welling abscess and toxin of clove. Isolated compounds: 629, 630, 9641.
- T0175 *Adiantum pedatum* (Adiantaceae); TIE SI QI; American Maidenhair Fern. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury. TCM Indications: Lung heat cough, dysentery, jaundice, dribbling and inhibited voidings of urination, swollen welling abscess, scrofula, scalds. Isolated compounds: 632, 641, 7757, 7758, 7795, 7796, 9642, 11197, 11425, 15405, 15406.
- T0176 *Adiantum* sp. (Adiantaceae). Isolated compounds: 15286, 18815.
- T0177 *Adiantum* spp. (Adiantaceae). Isolated compounds: 15406.
- T0178 *Adiantum sulphureum* (Adiantaceae); LIU HUANG TIE XIAN JUE; Sulphur Maidenhair Fern\*. Isolated compounds: 5969.
- T0179 *Adiantum venustum* (Adiantaceae); XI YE TIE XIAN JUE; Venus Maidenhair. Isolated compounds: 633, 634, 635.
- T0180 *Adina pilulifera* [Syn. *Cephalanthus pilulifera*] (Rubiaceae); SHUI TUAN HUA; Pilular Adina. Used part: whole herb, or flower and fruit. TCM Effects: To clear heat and disinhibit damp, disperse stasis and settle pain, engender flesh and stanch bleeding. TCM Indications: Dysentery, enteritis, edema, swelling toxin of welling abscess and sore, eczema, foot rot, enduring sores, bleeding due to external injury. Isolated compounds: 3676, 14979, 18427, 20369.
- Adina racemosa* = *Sinoadina racemosa*
- T0181 *Adina rubella* (Rubiaceae); XI YE SHUI TUAN HUA; Thinleaf Adina. Used part: stem-leaf or inflorescence. TCM Effects: To clear heat and resolve toxin. TCM Indications: dysentery with ardent fever, wind-fire toothache, eczema, bleeding due to external injury. Isolated compounds: 18437, 18438, 21922.
- Adina sessilifolia* = *Neonauclea sessilifolia*
- T0182 *Adinandra nitida* (Theaceae); GUANG LIANG YANG TONG; Shining Adinandra\*. Isolated compounds: 15540, 16766, 21864.
- T0183 *Adlumia cirrhosa* [Syn. *Adlumia fungosa*] (Papaveraceae); XUN ZHUANG SHAN YUAN CAO; Climbing Fumitory. Used part: whole herb. TCM Effects: To settle pain. TCM Indications: Various pain. Isolated compounds: 642, 643.
- Adlumia fungosa* = *Adlumia cirrhosa*
- T0184 *Adonis amurensis* (Ranunculaceae); FU SHOU CAO; Amur Adonis. Used part: whole herb. TCM Effects: To strengthen heart, disinhibit urine, calm. TCM Indications: Cardiac insufficiency, atrial fibrillation, congestive cardiac failure, edema due to heart disease, CNS depression. Isolated compounds: 644, 2246, 4012, 4036, 4547, 4548, 5525, 7992, 7993, 11497, 11643, 12880, 15529, 15530, 16034, 16917, 19375, 19542, 20072, 20397, 20402, 20405, 22195.
- T0185 *Adonis annua* (Ranunculaceae); QIU FU SHOU CAO; Annual Adonis\*. Isolated compounds: 647.
- T0186 *Adonis chrysocyatha* (Ranunculaceae); JIN HUANG CE JIN ZHAN HUA; Golden Adonis. Isolated compounds: 4547.
- T0187 *Adonis mongolica* (Ranunculaceae); MENG GU CE JIN ZHAN HUA; Mongolian Adonis\*. Isolated compounds: 4036, 7320, 16084.
- T0188 *Adonis sibirica* (Ranunculaceae); BEI CE JIN ZHAN HUA; Siberian Adonis. Isolated compounds: 646.
- T0189 *Adonis* spp. (Ranunculaceae). Isolated compounds: 22581.
- T0190 *Adonis sutchuenensis* (Ranunculaceae); SHU CE JIN ZHAN HUA; Szechwan Adonis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dry damp, strengthen heart and calm. TCM Indications: Swelling toxin of welling abscess and sore, red eyes with gall, vomiting and diarrhea, dysentery, palpitation and insomnia, epilepsy. Isolated compounds: 3306.
- T0191 *Adonis vernalis* (Ranunculaceae); CHUN FU SHOU CAO; Yellow Adonis. Isolated compounds: 646, 4547, 6204, 22404.
- T0192 *Adonis wolgensis* (Ranunculaceae); FU ER JIA CE JIN ZHAN HUA; Volga Adonis. Isolated compounds: 646.
- T0193 *Adoxa moschatellina* (Adoxaceae); WU FU HUA; Muskroot. Isolated compounds: 14982.
- T0194 *Aegiceris corniculatum* (Myrsinaceae); LA ZHU GUO; Corniculate Aegiceris. Isolated compounds: 465, 4987, 5867, 5975, 5976, 6767, 7436, 10485, 14042, 14347, 14347, 18546.
- T0195 *Aeginetia indica* (Orobanchaceae); YE GU; Indian Aeginetia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling pain in throat, urinary tract infection, medullitis, clove sore. Isolated compounds: 656, 657, 18656.
- T0196 *Aegiphila lhotzkyana*. Isolated compounds: 4590, 7080, 20465, 21231, 22213.
- T0197 *Aegle marmelos* (Rutaceae); MU<sup>(4)</sup> JU; Sepiaria. Used part: young fruit. TCM Effects: To check dysentery and diarrhea, disinhibit throat and disperse swelling. TCM Indications: Chronic diarrhea, abdominal pain, dysentery, swelling pain in throat. Isolated compounds: 933, 4863, 7703, 13571, 19540, 22195.
- T0198 *Aesculus assamica* (Hippocastanaceae); CHANG BING QI YE SHU; Assam Horsechestnut. Isolated compounds: 1913, 1914.
- T0199 *Aesculus californica* (Hippocastanaceae); JIA ZHOU QI YE SHU; Californian Buckeye. Isolated compounds: 6853.

- T0200 *Aesculus carnea* (Hippocastanaceae); HONG QI YE SHU; Red Horsechestnut. Isolated compounds: 6853.
- T0201 *Aesculus chinensis* (Hippocastanaceae); QI YE SHU; Chinese Buckeye. Used part: ripe fruit without shell. TCM Effects: See *Aesculus wilsonii*. TCM Indications: See *Aesculus wilsonii*. Isolated compounds: 660, 661, 662, 665, 667, 7361, 7362, 7363, 7364, 7365, 11416, 11417.
- T0202 *Aesculus hippocastanum* (Hippocastanaceae); OU ZHOU QI YE SHU; Horsechestnut. Used part: ripe fruit without shell. TCM Effects: See *Aesculus wilsonii*. TCM Indications: See *Aesculus wilsonii*. Isolated compounds: 660, 663, 664, 7942, 7944, 17867, 17876, 17888, 18411.
- T0203 *Aesculus* spp. (Hippocastanaceae). Isolated compounds: 17869.
- T0204 *Aesculus turbinata* (Hippocastanaceae); RI BEN QI YE SHU; Japanese Buckeye. Isolated compounds: 659, 663, 2152, 3829, 3830, 5271, 7942, 17964.
- T0205 *Aesculus wilsonii* (Hippocastanaceae); SUO LUO ZI; Wilson Buckeye Seed. Equivalent plant: *Aesculus chinensis*, *Aesculus hippocastanum*. Used part: ripe fruit without shell. TCM Effects: To soothe liver, rectify *qi*, loosen center, relieve pain. TCM Indications: Distending pain in chest and rib-side, distending pain in breast, dysmenorrhea, pain in stomach duct, pain in chest and abdomen. Isolated compounds: 660, 21368.
- T0206 *Aframomum daniellin* (Zingiberaceae); DUO NI FEI SHA REN. Isolated compounds: 675.
- T0207 African frog FEI ZHOU WA; African frog. Isolated compounds: 22057.
- T0208 *Afromosia elata* XI FEI HONG DOU SHU; West Africa Afromosia. Isolated compounds: 676.
- T0209 *Agapanthus africanus* (Liliaceae); FEI ZHOU BAI ZI LIAN; African Lily. Isolated compounds: 6195.
- T0210 *Agaricus bisporus* (Agaricaceae); SHUANG BAO MO GU; Bispore Mushroom\*. Used part: sporocarp. TCM Effects: See *Agaricus campestris*. TCM Indications: See *Agaricus campestris*. Isolated compounds: 701, 7250, 13608.
- T0211 *Agaricus campestris* (Agaricaceae); MO GU; Mushroom. Equivalent plant: *Agaricus bisporus*. Used part: sporocarp. TCM Effects: To fortify spleen and promote digestion, calm liver and raise spirit. TCM Indications: Non-digestion of food accumulation, torpid intake, scant breast milk, hypertension, fatigued spirit and desire to sleep. Isolated compounds: 625, 701, 1040, 1055, 3205, 3774, 4223, 4591, 5350, 5351, 7853, 9602, 10357, 12399, 18261, 18266, 19360, 21504, 21505, 21506, 22254, 22814.  
*Agaricus piperatus* = *Lactarius piperatus*
- T0212 *Agastache rugosus* (Lamiaceae); HUO XIANG; Wrinkled Gianthyssop. Used part: aerial parts. TCM Effects: To dispel summerheat and resolve exterior, harmonize stomach and transform damp. TCM Indications: Summer common cold, cold-heat headache, glomus and oppression in chest and stomach duct, vomiting and diarrhea, diarrhea in pregnancy, deep-source nasal congestion. Isolated compounds: 56, 61, 708, 709, 1186, 1282, 2851, 2940, 2941, 2943, 3241, 3242, 4219, 4550, 4680, 6059, 6741, 6918, 7385, 7730, 7951, 9522, 9524, 9670, 11200, 12843, 12849, 13883, 14359, 15978, 15979, 16050, 16498, 16711, 17376, 17377, 18668, 19983, 21391.
- T0213 *Agathis dammara* (Araucariaceae); BEI KE SHAN; Amboina Pitch Tree. Isolated compounds: 710.
- T0214 *Agathis palmerstoni* (Araucariaceae); PA SHI BEI KE SHAN; Palmerston Pitch Tree\*. Isolated compounds: 4376.
- T0215 *Agave americana* (Amaryllidaceae); FAN MA; American Agave. Used part: leaf. TCM Effects: To resolve toxin and draw out pus, kill worms, stanch bleeding. TCM Indications: Sores with welling abscess and flat abscess, scab and lichen, pelvic inflammation, flooding. Isolated compounds: 697, 698, 699, 712, 713, 714, 715, 716, 725, 727, 3552, 4928, 4945, 7008, 8457, 9253, 13510, 17479, 18893, 20216, 21383, 21386, 22045.
- T0216 *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*] (Amaryllidaceae); WU CI FAN MA; Spineless Agave. Used part: leaf. TCM Effects: To moisten lung, transform phlegm, suppress cough. TCM Indications: Vacuity taxation cough, blood ejection, asthma. Isolated compounds: 3552, 4928, 4945, 9192, 9253, 12126, 13510, 15463, 15525, 21383, 21388.  
*Agave americana* var. *variegata* = *Agave americana* var. *marginata*
- T0217 *Agave angustifolia* (Amaryllidaceae); DUAN YE LONG SHE LAN; Narrowleaf Agave. Isolated compounds: 3552, 9253, 13510, 21383.
- T0218 *Agave angustifolia* var. *marginata* (Amaryllidaceae); YIN BIAN LONG SHE LAN; Silveredge Agave. Isolated compounds: 3552, 9253.
- T0219 *Agave cantala* (Amaryllidaceae); XIA YE LONG SHE LAN; Shortleaf Agave. Isolated compounds: 717, 718, 719, 720, 721, 722, 723, 724, 3089, 3090, 3091, 3092, 3093, 3552, 9253, 13510, 15364, 15463, 21383.
- T0220 *Agave deserti* (Amaryllidaceae). Isolated compounds: 4928, 4945.
- T0221 *Agave east-one* (Amaryllidaceae); DONG YI HAO JIAN MA; Cultivate Sisalan Agave East-1. Isolated compounds: 3552, 6553, 6554, 6555, 6556, 6557, 9253, 13510, 18893, 21383.
- T0222 *Agave huahucensis* (Amaryllidaceae). Isolated compounds: 726.
- T0223 *Agave lecheguilla* (Amaryllidaceae). Isolated compounds: 19065, 21383, 22936.
- T0224 *Agave rigidissima* (Amaryllidaceae); JI JIAN LONG SHE LAN; Very-hard Agave\*. Isolated compounds: 14823.
- T0225 *Agave roezliana* (Amaryllidaceae). Isolated compounds: 15435.
- T0226 *Agave sisalana* (Amaryllidaceae); JIAN MA; Sisal Hemp-plant. Used part: leaf. TCM Effects: To cool blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Tuberculosis and hemoptysis, spontaneous external bleeding, hematochezia, dysentery, welling abscess, hemorrhoids. Isolated compounds: 2150, 3552, 7008, 8588, 9192, 9253, 9630, 15463, 15467, 17784, 18893, 19977, 21383.
- T0227 *Agave striata* (Amaryllidaceae); TIAO WEN LONG SHE LAN; Stria Agave\*. Isolated compounds: 15433.
- T0228 *Agave yuccaefolia* (Amaryllidaceae). Isolated compounds: 19230.
- T0229 *Ageratum conyzoides* (Asteraceae); SHENG HONG JI; Tropic Ageratum. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding, relieve pain. TCM Indications: Common cold with fever, swelling pain in throat, hemoptysis, spontaneous external bleeding, flooding and spotting, pain in stomach duct and abdomen, wind-damp impediment pain, knocks and falls, bleeding due to external injury, swelling toxin of welling abscess and sore, eczema titillation. Isolated compounds: 9509, 19929, 20369.

- T0230 *Ageratum houstonianum* (Asteraceae); XIONG ER CAO; Mexican Ageratum. Isolated compounds: 9306, 11647, 17776, 18661.
- T0231 *Aglaiia argentea* (Meliaceae); YIN SE MI ZI LAN; Argenti Aglaiia\*. Isolated compounds: 16002.
- T0232 *Aglaiia duperreana* (Meliaceae). Isolated compounds: 375, 495, 5463, 10097, 10098, 10677, 14714, 18883.
- T0233 *Aglaiia edulis* (Meliaceae); KE SHI MI ZI LAN; Edible Aglaiia\*. Isolated compounds: 736, 737, 740, 741, 9623, 11739, 16618, 21274, 21275, 21276, 21277, 21278.
- T0234 *Aglaiia elliptica* (Meliaceae); TUE YUAN MI ZI LAN; Elliptic Aglaiia\*. Isolated compounds: 307, 738, 6824, 16002, 18887, 18888, 18889.
- T0235 *Aglaiia elliptifolia* (Meliaceae); DA YE SHU LAN; Largeleaf Aglaiia\*. Isolated compounds: 4955, 6760, 6761, 7932, 10790, 17475, 18892.
- T0236 *Aglaiia foveolata* (Meliaceae); FENG CHAO MI ZI LAN; Foveolate Aglaiia\*. Isolated compounds: 7932.
- T0237 *Aglaiia grandis* (Meliaceae); JU DA MI ZI LAN; Grand Aglaiia\*. Isolated compounds: 5756, 8974, 8975, 8976.
- T0238 *Aglaiia lawii* (Meliaceae); Law Aglaiia\*. Isolated compounds: 744, 745, 746, 747.
- T0239 *Aglaiia leucophylla* (Meliaceae); BAI YE MI ZI LAN; Whiteleaf Aglaiia\*. Isolated compounds: 15598.
- T0240 *Aglaiia odorata* (Meliaceae); MI ZI LAN; Chu-lan Tree. Used part: flower or leaf. TCM Effects: To dispel wind-damp, dissipate stasis and disperse swelling. TCM Indications: Distention fullness in chest and diaphragm, dysphagia-occlusion, cough and heavy head (flower), knocks and falls, flat abscess (leaf). Isolated compounds: 739, 5753, 9768, 9769, 9981, 10379, 10677, 11966, 14714, 16002, 16003, 18262, 18882, 18883.
- T0241 *Aglaiia oligophylla* (Meliaceae). Isolated compounds: 18891.
- T0242 *Aglaiia pirifera* (Meliaceae); LI MI ZI LAN; Pear Aglaiia\*. Isolated compounds: 17475.
- T0243 *Aglaiia ponapensis* (Meliaceae). Isolated compounds: 1382, 1383, 14714, 19910.
- T0244 *Aglaiia roxburghiana* (Meliaceae); LUO KE SI BAO MI ZI LAN; Roxburg Aglaiia\*. Isolated compounds: 16002, 16003.
- T0245 *Aglaiia spectabilis* (Meliaceae). Isolated compounds: 10677, 14714, 18883, 18884, 18885, 18886, 18887, 18888, 18889, 18890, 18891.
- T0246 *Aglaiia tomentosa* (Meliaceae); RONG MAO MI ZI LAN; Tomentose Aglaiia\*. Isolated compounds: 742, 743, 744, 745, 746, 747.
- T0247 *Agrimonia japonica* (Rosaceae); RI BEN LONG YA CAO; Japanese Agrimonia\*. Isolated compounds: 757, 758, 759, 17750.
- T0248 *Agrimonia pilosa* (Rosaceae); LONG YA CAO; Hairyvein Agrimonia. Used part: aerial parts. TCM Effects: To promote astriction and stanch bleeding, check dysentery, kill worms. TCM Indications: Hemoptysis, blood ejection, hematuria, hematochezia, dysentery, flooding and spotting with vaginal discharge, bleeding due to external injury, malaria, trichomoniasis. Isolated compounds: 754, 759, 762, 10887, 17361, 17362, 17363, 17386, 17750.
- T0249 *Agrimonia pilosa* var. *japonica* (Rosaceae); XIAN HE CAO; Japanese Argimonia. Used part: aerial parts. TCM Effects: To promote astriction and stanch bleeding, interrupt malaria, check dysentery, resolve toxin. TCM Indications: Hemoptysis, blood ejection, flooding and spotting, malaria, blood dysentery, swelling toxin of welling abscess and sore, pudendal itch, Vaginal discharge. Isolated compounds: 753, 754, 755, 756, 760, 761, 762, 1492, 2887, 3308, 3674, 6757, 8095, 10887, 15660, 16261, 18019, 18317, 19087, 19983, 20792.
- T0250 *Agrimonia pilosa* var. *japonica* (Rosaceae); XIAN HE CAO GEN; Japanese Agrimonia Root. Used part: root. TCM Effects: To resolve toxin and kill worms. TCM Indications: Red and white dysentery, amenorrhea, toxin swelling, taeniasis. Isolated compounds: 5699.
- T0251 *Agrimonia pilosa* var. *japonica* (Rosaceae); XIAN HE CAO GEN YA; Japanese Argimonia Rhizome. Used part: rhizome. TCM Effects: To expel tapeworm. TCM Indications: Taeniasis. Isolated compounds: 762.
- T0252 *Agrostemma githago* (Caryophyllaceae); MAI XIAN WENG; Githago Agrostemma. Isolated compounds: 765, 9183, 9297.
- T0253 *Agrostophyllum brevipes* (Orchidaceae); DUAN BING HE YE LAN; Short-stipe Agrostophyllum\*. Isolated compounds: 766, 767.
- T0254 *Agrostophyllum callosum* (Orchidaceae); YING PI HE YE LAN; Callose Agrostophyllum. Isolated compounds: 767.
- T0255 *Ailanthus altissima* (Simaroubaceae); CHU BAI PI; Tree of Heaven Ailanthus Bast. Used part: bast. TCM Effects: To eliminate heat and dry damp, astringe intestines and stanch bleeding, kill worms. TCM Indications: Chronic dysentery, chronic diarrhea, duodenal ulcer, intestinal wind bleeding, flooding and spotting, vaginal discharge, emission, white turbidity, ascariasis. Isolated compounds: 312, 774, 777, 778, 779, 780, 1018, 3096, 3481, 6204, 13865, 15454, 18299, 19826, 19827.
- T0256 *Ailanthus excelsa* (Simaroubaceae); GAO CHU; High Ailanthus\*. Isolated compounds: 777, 5612, 8509, 13865, 18300, 18301.
- T0257 *Ailanthus integrifolia* ssp. *calycina* (Simaroubaceae); QUAN YUAN CHU; Integrifolious Ailanthus\*. Isolated compounds: 3481.
- T0258 *Ailanthus malabarica* (Simaroubaceae); MA LA BA CHU; Hairyleaf South Ailanthus. Isolated compounds: 3158.
- T0259 *Aiphanes aculeata* (Arecaceae); CI JI NU ZONG LV; Aculeate Ruffie Palm. Isolated compounds: 1448, 11672.
- T0260 *Ajania fruticulosa* (Asteraceae); GUAN MU YA JU; Shrubby Ajania. Isolated compounds: 7107, 7206, 7207.
- T0261 *Ajuga chamaepitys* (Lamiaceae); HUANG JIN GU CAO; Yellow Bugle. Isolated compounds: 794, 4455, 13411.
- T0262 *Ajuga ciliata* (Lamiaceae); JIN GU CAO; Ciliate Bugle. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and disperse swelling. TCM Indications: Swelling pain in throat, lung heat hemoptysis, painful swelling from knocks and falls. Isolated compounds: 4455.
- T0263 *Ajuga decumbens* (Lamiaceae); BAI MAO XIA KU CAO; Decumbent Bugle. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, relieve cough and transform phlegm, cool blood and dissipate blood. TCM Indications: Swelling pain in throat, lung heat cough, pulmonary welling abscess, red eyes with gall, dysentery, swollen welling abscess and clove sores, poisonous snake bite, knocks and falls. Isolated compounds: 409, 788, 789, 790, 791, 792, 793, 794, 801, 802, 803, 805, 806, 807, 810, 811, 4455, 4860, 6679, 12952, 17662.
- T0264 *Ajuga forrestii* (Lamiaceae); LI ZHI HAO; Forrest Bugle. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit

- water and free strangury, dissipate stasis and relieve pain, expel worms. TCM Indications: Lung heat cough, swelling pain in throat, dysentery, jaundice, heat strangury, edema, mastitis, angitis, swollen sore of welling abscess and boil, knocks and falls, bleeding due to external injury, ascariasis. Isolated compounds: 56, 409, 786, 787.
- T0265 *Ajuga iva* (Lamiaceae); AI WA JIN GU CAO; Iva Bugle\*. Isolated compounds: 7768.
- T0266 *Ajuga macrosperma* (Lamiaceae); DA ZI JIN GU CAO; Largeseed Bugle. Used part: whole herb. TCM Effects: To clear heat and cool blood, dissipate stasis and relieve pain. TCM Indications: Lung heat cough, blood ejection, spontaneous external bleeding, red dysentery, strangury with pain, wind-damp impediment pain, painful swelling from knocks and falls. Isolated compounds: 800.
- T0267 *Ajuga nipponensis* (Lamiaceae); ZI BEI JIN PAN; Japanese Bugle. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, cool blood and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Lung heat cough, hacking of blood, sore swollen throat, mammary welling abscess, intestinal welling abscess, swelling toxin of sore and boil, bleeding hemorrhoids, painful swelling from knocks and falls, bleeding due to external injury, burns and scalds, poisonous snake bites. Isolated compounds: 801, 802, 803, 805, 806, 807, 810.
- T0268 *Ajuga parviflora* (Lamiaceae); XIAO HUA XIA KU CAO; Smallflower Bugle\*. Isolated compounds: 812, 813, 814.
- T0269 *Ajuga pseudoiva* (Lamiaceae); Pseudoiva Bugle\*. Isolated compounds: 9246, 9247, 9248.
- T0270 *Ajuga remota* (Lamiaceae); YUAN JU JIN GU CAO; Manybracteole Bugle. Isolated compounds: 809.
- T0271 *Ajuga reptans* (Lamiaceae); PU FU JIN GU CAO; Creeping Bugle. Isolated compounds: 409, 794, 816, 4455, 17662, 18628.
- T0272 *Ajuga taiwanensis* (Lamiaceae); TAI WAN JIN GU CAO; Taiwan Bugle\*. Isolated compounds: 346, 409, 794, 795, 796, 797, 798, 799, 800, 804, 808, 4455, 8094, 9237, 11361, 12020, 15528, 17140, 17141, 19983, 19987, 20369, 21225, 22332.
- T0273 *Akebia quinata* (Lardizabalaceae); MU TONG; Fiveleaf Akebia. Equivalent plant: *Akebia trifoliata* var. *australis*, *Akebia trifoliata*. Used part: stem. TCM Effects: To clear heat and disinhibit urine, quicken blood and free vessels. TCM Indications: Acute urethritis, short voidings of reddish urine, strangury-turbidity, edema, nephritis with edema, galactostasis, heat vexation in chest, throat pain, mouth sore, tongue sores, wind-damp impediment pain, galactostasis, amenorrhea, dysmenorrhea. Isolated compounds: 819, 820, 1691, 4450, 4680, 9260, 11083, 13799, 15753, 15754, 15755, 15783, 16050, 16402, 18419, 19316, 19983, 19987, 20369.
- T0274 *Akebia quinata* (Lardizabalaceae); MU TONG GEN; Fiveleaf Akebia Root. Equivalent plant: *Akebia trifoliata* var. *australis*, *Akebia trifoliata*. Used part: root. TCM Effects: To dispel wind and eliminate damp, move *qi* and quicken blood, disinhibit urine, resolve toxin. TCM Indications: Wind-damp impediment pain, knocks and falls, amenorrhea, mounting *qi*, painful swollen testes, distention oppression in stomach duct, inhibited urination, vaginal discharge, snake or insect bites. Isolated compounds: 819, 820, 4680, 19987.
- T0275 *Akebia quinata* (Lardizabalaceae); YU ZHI ZI; Fiveleaf Akebia Seed. Used part: seed. TCM Effects: To course liver and harmonize stomach, quicken blood and relieve pain, soften hardness and dissipate binds, disinhibit urine. TCM Indications: Liver stomach *qi* stagnation, distending pain in stomach duct, distending pain in rib-side, non-digestion of food accumulation, dysentery, mounting *qi*, lumbago, amenorrhea and dysmenorrhea, goiter and tuberculosis, scrofula, carcinoma. Isolated compounds: 8814, 8815, 8816, 9274, 9276, 15712, 16050, 17945.
- T0276 *Akebia* spp. (Lardizabalaceae). Isolated compounds: 12642.
- T0277 *Akebia trifoliata* (Lardizabalaceae); SAN YE MU TONG; Threeleaf Akebia. Used part: stem. TCM Effects: See *Akebia quinata*. TCM Indications: See *Akebia quinata*. Isolated compounds: 819, 984, 1854, 5953, 6050, 6051, 6058, 6059, 6138, 6139, 6981, 8608, 8640, 8719, 8720, 8747, 8766, 9275, 18419, 21812, 21813, 21814, 21824, 21825, 21826.
- T0278 *Akebia trifoliata* (Lardizabalaceae); SAN YE MU TONG GEN; Threeleaf Akebia Root. Used part: root. TCM Effects: See *Akebia quinata*. TCM Indications: See *Akebia quinata*. Isolated compounds: 4680.
- T0279 *Akebia trifoliata* var. *australis* (Lardizabalaceae); BAI MU TONG; Austral Akebia. Used part: stem. TCM Effects: See *Akebia quinata*. TCM Indications: See *Akebia quinata*. Isolated compounds: 9775, 22957.
- T0280 *Akebia trifoliata* var. *australis* (Lardizabalaceae); BAI MU TONG GEN; Austral Akebia Root. Used part: root. TCM Effects: See *Akebia quinata*. TCM Indications: See *Akebia quinata*. Isolated compounds: 4680.
- T0281 *Alangium chinense* (Alangiaceae); BA JIAO FENG; Chinese Alangium. Equivalent plant: *Alangium platanifolium*. Used part: root. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, dissipate stasis and relieve pain. TCM Indications: Wind-damp impediment pain, rheumatic arthritis, numbness in limbs, knocks and falls, adjuvant in anesthesia. Isolated compounds: 1125, 2277, 8731, 8751.
- T0282 *Alangium kurzii* (Alangiaceae); MAO BA JIAO FENG; Kurz Alangium. Used part: lateral root or fibril. TCM Effects: To soothe sinews and quicken blood, dissipate stasis and relieve pain. TCM Indications: Stasis swelling from knocks and falls, fracture. Isolated compounds: 1124, 1293.
- T0283 *Alangium lamarckii* (Alangiaceae); AN GE LA BA JIAO FENG; Angola Alangium\*. Isolated compounds: 828, 829, 830, 831, 1293, 3400, 18095.
- T0284 *Alangium platanifolium* var. *platanifolium* (Alangiaceae); GUA MU BIAN ZHONG; Planeleaf Alangium Variety\*. Isolated compounds: 17521, 17522, 17523, 17524, 17525, 17526, 17527.
- T0285 *Alangium platanifolium* (Alangiaceae); GUA MU; Planeleaf Alangium. Used part: root. TCM Effects: See *Alangium chinense*. TCM Indications: See *Alangium chinense*. Isolated compounds: 1124.
- T0286 *Alangium premnifolium* (Alangiaceae). Isolated compounds: 13644, 13645.
- T0287 *Albatrellus confluens* (Polyporaceae); YUN NAN DI HUA JUN; Yunnan Landflower Mushroom\*. Isolated compounds: 843.
- T0288 *Albatrellus ovinus* (Polyporaceae); RE BEN MO GU; Japanese

- Mushroom\*(Sheep Polypore). Isolated compounds: 7906, 7910, 10538.
- T0289 *Albertisia papuana* (Menispermaceae). Isolated compounds: 9597, 16439.
- T0290 *Albizzia adinocephala* (Fabaceae); BA NA MA HE HUAN; Panamanian Albizia\*. Isolated compounds: 2700, 2701.
- T0291 *Albizzia anthelmintica* (Fabaceae); QU CHONG HE HUAN; Musenna Albizia. Isolated compounds: 5251, 15131.
- T0292 *Albizzia julibrissin* (Fabaceae); HE HUAN PI; Silktree Albizia Bark. Used part: bark. TCM Effects: To quiet spirit and resolve depression, quicken blood and disperse welling abscess. TCM Indications: Disquieted heart spirit, depression, insomnia, welling abscess and sores, knocks and falls. Isolated compounds: 59, 60, 855, 856, 862, 3171, 11916, 11917, 11918, 11919, 11920, 11921, 11922, 11923, 11924, 11925, 11926, 11927, 11928, 11929, 11930, 11931, 11932, 11933, 11934, 11935, 11936, 11937, 11938, 11939, 11940, 11941, 11942, 13288, 13289, 15708, 20557, 20558, 20567.
- T0293 *Albizzia lebeck* (Fabaceae); KUO JIA HE HUAN; Siris-acacia. Used part: bark. TCM Effects: To disperse swelling and relieve pain, promote astriction and check drain. TCM Indications: Painful swelling from knocks and falls, sore and boil, toxin swelling, ophthalmia, gum erosion, hemorrhoids, diarrhea. Isolated compounds: 7951, 18407.
- T0294 *Albizzia lophantha* (Fabaceae); YU ZHUANG HE HUAN; Cape Leeuwin Wattle. Isolated compounds: 862, 6533.
- T0295 *Albizzia odoratissima* (Fabaceae); XIANG HE HUAN; Fragrant Albizia\*. Used part: root and bark. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain, quiet spirit. TCM Indications: Rheumatic arthritis, fracture due to knocks and falls, bleeding due to external injury, sores, scab and lichen, insomnia. Isolated compounds: 6240, 6264, 21914.
- T0296 *Alchornea floribunda* (Euphorbiaceae); DUO HUA SHAN MA GAN; Manyflower Christmasbush\*. Isolated compounds: 871.
- T0297 *Alchornea trewioides* (Euphorbiaceae); HONG BEI SHAN MA GAN; Redback Christmashush. Used part: leaf and root. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin, kill worms and relieve itch. TCM Indications: Dysentery, heat strangury, stone strangury, hematuria, flooding and spotting with vaginal discharge, wind papules, eczema, scab and lichen, decayed toothache, bedsore. Isolated compounds: 13438.
- T0298 *Alectoria vivens* (Usneaceae); JIN SI DAI; Green Alectoria Filament. Used part: filament. TCM Effects: To eliminate wind-damp, stanch bleeding and relieve pain, quicken blood and regulate menstruation, quiet spirit and calm, fortify spleen and stomach. TCM Indications: Taxation damage pain in lumbus and legs, bleeding due to external injury, menstrual disorder, prolapse of uterus, vaginal discharge, mental disease, epilepsy, hemiplegia, impotence, dizziness and dim vision. Isolated compounds: 1596, 22523, 22625.
- T0299 *Aleurites cordata* [Syn. *Aleurites fordii*] (Euphorbiaceae); TONG YOU; Tung Oil. Used part: seed oil. TCM Effects: To promote vomiting and expel phlegm drool, clear heat and resolve toxin, contract damp and kill worms. TCM Indications: Scab and lichen, shank sore, burns and scalds, cracking from frostbite. Isolated compounds: 4055, 6748, 6749, 13438, 16564, 20237, 21905, 21984.
- Aleurites fordii* = *Aleurites cordata*
- T0300 *Aleurites moluccana* (Lamiaceae); SHI LI ZI; Belgaum Walnut Seed. Used part: seed. TCM Effects: To quicken blood, moisten intestines. TCM Indications: Amenorrhea, intestinal dry and constipation. Isolated compounds: 8808.
- T0301 *Aleuritopteris argentea* (Sinopteridaceae); TONG JING CAO; Silvery Aleuritopteris. Used part: whole herb. TCM Effects: To regulate menstruation, suppress cough, dispel damp. TCM Indications: Cough, menstrual disorder, red and white vaginal discharge. Isolated compounds: 886.
- T0302 *Alhagi pseudalhagi* (Fabaceae); LUO TUO CI; Manaplant Alhagi Sweet Secretion. Used part: sweet secretion. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Steaming bone vexation thirst, blood dysentery, diarrhea, abdominal pain, headache. Isolated compounds: 7807, 9646, 14583, 20563.
- T0303 *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*] (Alismataceae); ZE XIE; Oriental Waterplantain. Used part: tuber. TCM Effects: To lower cholesterol, disinhibit water and percolate damp, drain heat and free strangury, lower blood sugar levels. TCM Indications: Hyperlipemia, inhibited urination, heat strangury with inhibited pain, edema distention fullness, diarrhea, phlegm-rheum dizziness, emission. Isolated compounds: 888, 891, 892, 893, 894, 895, 896, 897, 898, 902, 903, 1257, 1258, 5151, 7050, 7051, 8011, 15336, 16184, 16185, 16189, 16190, 16191, 16192, 16193, 16194, 20472, 20473, 20474, 20475.
- Alisma plantago-aquatica* var. *orientale* = *Alisma orientale*
- T0304 *Alkanna tinctoria* (Boraginaceae); OU ZI CAO; Dyer's Alkanet. Isolated compounds: 909, 6302.
- T0305 *Allanblackia floribunda*. Isolated compounds: 21866.
- T0306 *Allanblackia monticola*. Isolated compounds: 918, 919.
- T0307 *Allemanda cathartica* (Apocynaceae); RUAN ZHI HUANG CHAN; Common Allemanda. Isolated compounds: 913, 914, 915, 11607, 17570.
- T0308 *Allemanda neriifolia* (Apocynaceae); HUANG CHAN; Oleanderleaf Allemanda. Isolated compounds: 7487.
- T0309 *Allium ampeloprasum* (Liliaceae); DA TOU SUAN; Wild Leek. Isolated compounds: 17864, 17865, 17913.
- T0310 *Allium ascalonicum* (Liliaceae); HU CONG; Shallot. Used part: bulb. TCM Effects: To resolve exterior, free yang, resolve toxin. TCM Indications: Wind-cold common cold, yin cold abdominal pain, urinary stoppage, swelling toxin of welling abscess and flat abscess, painful swelling from knocks and falls. Isolated compounds: 11504, 18343, 18346, 18368, 18410.
- T0311 *Allium cepa* (Liliaceae); YANG CONG; Common Onion. Used part: bulb. TCM Effects: To fortify stomach and rectify qi, resolve toxin and kill worms, lower blood-fat. TCM Indications: Reduced food intake with abdominal distention, wound, ulcer, trichomoniasis, hyperlipemia. Isolated compounds: 618, 921, 948, 953, 3182, 3183, 4048, 4134, 4438, 4442, 4443, 4444, 6342, 7768, 14277, 14278, 14690, 16902, 16903, 17174, 17181, 17912, 17913, 18343, 18346, 19912.
- T0312 *Allium cepa* var. *agrogatum* (Liliaceae); FEN NIE CONG TOU; Tillering Onion. Isolated compounds: 925, 17952.

- T0313 *Allium chinense* (Liliaceae); QIAO TOU; Chinese Onion. Used part: bulb. TCM Effects: See *Allium macrostemon*. TCM Indications: See *Allium macrostemon*. Isolated compounds: 3529, 12591, 12592, 12593, 12594, 20212, 20213.
- T0314 *Allium fistulosum* (Liliaceae); CONG BAI; Fistular Onion. Used part: fresh bulb. TCM Effects: To effuse exterior, free *yang*, resolve toxin, kill worms. TCM Indications: Wind-cold common cold, *yin* cold abdominal pain, inhibited urine and stool, dysentery, swelling pain of welling abscess and sore, abdominal pain due to worm accumulation. Isolated compounds: 920, 953.
- T0315 *Allium macleanii* (Liliaceae); MAI KE LIN JIU; MacLean Leek\*. Isolated compounds: 4297.
- T0316 *Allium macrostemon* (Liliaceae); XIE BAI; Longstamen Onion. Equivalent plant: *Allium chinense*. Used part: bulb. TCM Effects: To promote *yang* and dissipate binds, rectify *qi* and loosen chest. TCM Indications: Chest impediment, phlegm-rheum cough asthma, diarrhea and tenesmus. Isolated compounds: 618, 952, 3528, 3579, 4296, 8669, 8671, 13326, 13327, 13328, 13329, 13330, 13331, 13332, 13333, 13334, 14436, 14755, 14770, 14793, 17939, 17952, 17953, 19231, 19232, 20026.
- T0317 *Allium porrum* (Liliaceae); JIU CONG; Leek. Isolated compounds: 4296, 12068, 12069, 12206, 19634, 20210, 20211.
- T0318 *Allium sativum* (Liliaceae); DA SUAN; Garlic. Used part: bulb. TCM Effects: To warm center and move stagnation, resolve toxin, kill worms. TCM Indications: Cold pain in stomach duct and abdomen, diarrhea, dysentery, bacillary dysentery, amebic dysentery, tuberculosis, epidemic encephalitis, cholera, trichomoniasis, laryngeal carcinoma, pertussis, throat impediment, dry cough, common cold, malaria, edema, swelling toxin of welling abscess and boil, intestinal welling abscess, lichen sore, snake or insect bites, ancylostomiasis, oxyuria disease, taenia infection, vaginal discharge and pudendal itch, clavus. Isolated compounds: 618, 785, 920, 921, 923, 924, 926, 944, 947, 948, 950, 951, 952, 953, 954, 3760, 4296, 5349, 5486, 6342, 6407, 6417, 6501, 6524, 6531, 8312, 10663, 11414, 14126, 14127, 14128, 14278, 14327, 14328, 14329, 14582, 14690, 14691, 14694, 14759, 16876, 17919, 17921, 17937, 17972, 17978, 19396, 20479, 21626, 22509, 22511, 22512, 22513, 22514, 22515, 22518.
- T0319 *Allium schoenoprasum* (Liliaceae); XI XIANG CONG; Chive-like. Used part: herb. TCM Effects: To resolve exterior, free *qi* and effuse sweat. TCM Indications: Wind-heat common cold, headache, cold-damp red swelling, pain wind, sore. Isolated compounds: 14662, 14691, 17927, 21370.
- T0320 *Allium senescens* (Liliaceae); SHAN JIU; Aging Leek. Isolated compounds: 4297.
- T0321 *Allium* sp. (Liliaceae). Isolated compounds: 6501.
- T0322 *Allium tuberosum* (Liliaceae); JIU CAI; Tuber Onion. Used part: leaf. TCM Effects: To supplement kidney, warm center, move *qi*, dissipate stasis, resolve toxin. TCM Indications: Kidney vacuity impotence, cold pain in abdomen, dysphagia-occlusion and stomach reflux, chest impediment, blood ejection, spontaneous external bleeding, hematuria, dysentery, hemorrhoids, swelling toxin of welling abscess and sore, lacquer sore, knocks and falls. Isolated compounds: 618, 948, 6342, 6414, 14126, 14690, 22075, 22076, 22079.
- T0323 *Allium tuberosum* (Liliaceae); JIU ZI; Tuber Onion Seed. Used part: seed. TCM Effects: To supplement liver and kidney, invigorate *yang* and secure essence. TCM Indications: Kidney vacuity impotence, limp aching lumbus and knees, emission, frequent urination, urinary turbidity, Vaginal discharge. Isolated compounds: 8710, 8742, 18720, 22081, 22082.
- T0324 *Allium victorialis* (Liliaceae); GE CONG; Longroot Onion. Used part: bulb. TCM Effects: To dissipate stasis, stanch bleeding, resolve toxin. TCM Indications: Knocks and falls, blood stasis swelling and pain, spontaneous external bleeding, swelling pain of welling abscess and sore. Isolated compounds: 948, 952, 12195, 14126, 15424, 22158.
- T0325 *Alnus crispa* (Betulaceae); MEI ZHOU LU QI MU; American Green Alder. Isolated compounds: 17421.
- T0326 *Alnus glutinosa* (Betulaceae); OU ZHOU QI MU; European Alder. Isolated compounds: 3388.
- T0327 *Alnus hirsute* var. *microphylla* (Betulaceae); XIAO YE YING MAO QI MU; Smallleaf-hirsute Alder\*. Isolated compounds: 17754.
- T0328 *Alnus japonica* (Betulaceae); CHI YANG; Japanese Alder. Used part: bark, tender branchlet-leaf. TCM Effects: To clear heat and downbear fire, stanch bleeding. TCM Indications: Incessant nosebleed, bleeding due to external injury, water diarrhea. Isolated compounds: 958, 959, 960, 961, 963, 964, 965, 1110, 1113, 4930, 5829, 7445, 8788, 9219, 9550, 9551, 12082, 13097, 14489, 16174, 16175, 17547, 17548, 17754, 18411, 19211, 19312, 19609, 19610, 20389, 21843, 21844.
- T0329 *Alnus oregana* (Betulaceae); AO LEI TONG QI MU; Oregon Alder. Isolated compounds: 2331.
- T0330 *Alnus pendula* (Betulaceae); CHUI QI MU; Drooping Alder\*. Isolated compounds: 966, 8081.
- T0331 *Alnus sieboldiana* (Betulaceae); XI BO DE QI MU; Siebold Alder\*. Isolated compounds: 962, 17420, 17421.
- T0332 *Alnus* spp. (Betulaceae). Isolated compounds: 5763, 17547, 19312.
- T0333 *Alocasia cucullata* [Syn. *Arum cucullatum*] (Araceae); JIAN WEI YU; Chinese Taro. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dissipate binds and relieve pain. TCM Indications: Influenza, leptospirosis, early stage of sores and welling abscess toxin, scrofula, phlegmon, chronic osteomyelitis, poisonous snake bites, poisonous bee stings. Isolated compounds: 8012.
- T0334 *Aloe arborescens* var. *natalensis* (Liliaceae); WU GONG ZHANG; Arborescent Aloe\*. Used part: fresh juice of leaf. TCM Effects: To drain fire and resolve toxin, free stool. TCM Indications: Liver fire and red eyes, dizziness, lung heat cough asthma, repletion heat constipation, swelling pain of welling abscess and sore, erythematous lupus. Isolated compounds: 981.
- T0335 *Aloe ballyi* (Liliaceae); BEI LI LU HUI; Bally Aloe\*. Isolated compounds: 3979.
- Aloe barbadensis* = *Aloe vera*
- T0336 *Aloe cremonophila* (Liliaceae). Isolated compounds: 9615.
- T0337 *Aloe distans* (Liliaceae). Isolated compounds: 9615.
- T0338 *Aloe ferox* (Liliaceae); HAO WANG JIAO LU HUI; Cape of Good Hope Aloe Dried Juice. Used part: solid residue obtained by evaporating liquid which drains from leaves. TCM Effects: See *Aloe vera*. TCM Indications: See *Aloe vera*. Isolated compounds: 967, 974, 975, 977, 978, 980, 981, 7755, 7761, 7762, 7763, 11204.



- T0339 *Aloe gililandii* (Liliaceae); JI SHI LU HUI; Gililand Aloe\*. Isolated compounds: 3979.
- T0340 *Aloe jacksonii* (Liliaceae). Isolated compounds: 9615.
- T0341 *Aloe marlothii* (Liliaceae); MA SHI LU HUI; Marloth Aloe. Isolated compounds: 9772, 9774, 14129, 14130.
- T0342 *Aloe perryi* (Liliaceae); PEI LI LU HUI; Perry Aloe\*. Isolated compounds: 981.
- T0343 *Aloe ruspoliana* (Liliaceae); LA SHI LU HUI; Ruspol Aloe\*. Isolated compounds: 3979.
- T0344 *Aloe sabaea* (Liliaceae); SA BA LU HUI; Saba Aloe. Isolated compounds: 3543, 3979, 6332.
- T0345 *Aloe* sp. (Liliaceae). Isolated compounds: 967.
- T0346 *Aloe* spp. (Liliaceae); DUO ZHONG LU HUI TI QU WU; Extracts of *Aloe* spp. Isolated compounds: 973.
- T0347 *Aloe vera* [Syn. *Aloe barbadensis*] (Liliaceae); LU HUI; Kulaso Aloe Dried Juice. Equivalent plant: *Aloe ferox*, *Aloe vera* var. *chinensis*. Used part: solid residue obtained by evaporating liquid which drains from leaves. TCM Effects: To clear liver and relieve constipation. TCM Indications: Constipation, child *gan* accumulation, ascariasis, fright wind, lichen. Isolated compounds: 967, 972, 973, 976, 981, 1365, 3040, 3046, 3138, 3585, 3615, 4135, 4146, 4672, 7771, 8761, 9333, 9486, 9615, 9773, 11205, 11409, 12436, 13368, 13507, 13508, 16831, 18739, 19087, 20444, 20446, 22843.
- T0348 *Aloe vera* var. *chinensis* (Liliaceae); BAN WEN LU HUI; Chinese Aloe Dried Juice. Used part: solid residue obtained by evaporating liquid which drains from leaves. TCM Effects: See *Aloe vera*. TCM Indications: See *Aloe vera*. Isolated compounds: 967, 979, 981, 3209, 12569, 12891, 12893, 16561, 20280.
- T0349 *Alomia myriadenia*. Isolated compounds: 2048, 7078, 10296, 10297, 18682.
- T0350 *Alphonsea sclerocarpa* (Annonaceae). Isolated compounds: 12641.
- T0351 *Alphonsea* spp. (Annonaceae). Isolated compounds: 15751.
- T0352 *Alpinia allughas* (Zingiberaceae); A LU HA LIANG JIANG; Allugha Galangal\*. Isolated compounds: 17055.
- T0353 *Alpinia blepharocalyx* (Zingiberaceae); YUN NAN CAO KOU; Yunnan Galangal. Used part: fruit. TCM Effects: To dry damp, warm stomach, fortify spleen. TCM Indications: Stomach cold abdominal pain, distention fullness in stomach duct, dysphagia-occlusion, belching, stomach reflux, cold-damp vomiting and diarrhea. Isolated compounds: 2468, 2498, 2499, 2500, 3012, 3014, 3015, 3016, 3018, 3019, 3020, 3021, 3022, 4135, 4882, 4900, 4936, 5156, 5548, 5777, 5778, 5779, 5780, 5788, 5804, 6217, 6844, 6846, 6847, 6848, 6849, 9300, 9815, 9974, 10099, 10100, 10411, 10412, 13859, 14254, 14500, 14613, 15351, 15352, 17174, 19987.
- T0354 *Alpinia chinensis* (Zingiberaceae); LIAN JIANG; Chinese Galangal. Used part: rhizome. TCM Effects: To warm stomach and dissipate cold, disperse food and relieve pain. TCM Indications: Stomachache with distention and oppression, dysphagia-occlusion and stomach reflux, abdominal pain and diarrhea, rheumatism, cold pain of joints. Isolated compounds: 985, 9669, 11806.
- T0355 *Alpinia flabellata* (Zingiberaceae); SHAN SHAN JIANG; Flabellate Galangal\*. Isolated compounds: 10042, 10043, 10791, 10801, 12419, 21892, 21901, 21931, 21932, 21933, 21934.
- T0356 *Alpinia galanga* (Zingiberaceae); DA LIANG JIANG; Galanga Galangal. Used part: rhizome. TCM Effects: To warm stomach, dissipate cold, relieve pain. TCM Indications: *Qi* pain in heart and stomach, stomach cold, food damage vomiting and diarrhea. Isolated compounds: 140, 195, 675, 3048, 7521, 8079, 8080, 8081, 8082, 13896, 14245, 15987, 17923.
- T0357 *Alpinia japonica* (Zingiberaceae); TU SHA REN; Japanese Galangal. Used part: fruit or seed. TCM Effects: To move *qi*, regulate center, fortify stomach. TCM Indications: Glomus, abdominal distention and pain, vomiting, diarrhea. Isolated compounds: 989, 3048, 12331, 18682.
- T0358 *Alpinia katsumadai* (Zingiberaceae); CAO DOU KOU; Katsumada Galangal. Used part: seed. TCM Effects: To dispel damp and strengthen spleen, warm stomach and check vomiting. TCM Indications: Spleen-stomach Cold-damp obstructing, distention fullness and pain in stomach duct and abdomen, vomiting, diarrhea. Isolated compounds: 966, 985, 3187, 6487.
- T0359 *Alpinia officinarum* (Zingiberaceae); GAO LIANG JIANG; Lesser Galangal. Used part: rhizome. TCM Effects: To warm stomach, dispel wind, dissipate cold, move *qi*, relieve pain. TCM Indications: Cold pain in stomach duct and abdomen, vomiting, diarrhea. Isolated compounds: 2052, 2850, 6185, 6488, 7481, 7521, 8081, 9498, 9855, 10027, 10186, 10188, 10191, 10214, 10215, 10450, 10451, 10630, 12015, 13921, 13962, 13967, 14245, 15965, 17376, 18317, 19997.
- T0360 *Alpinia oxyphylla* (Zingiberaceae); YI ZHI REN; Sharpleaf Galangal. Used part: fruit. TCM Effects: To warm spleen, check diarrhea, warm kidney, reduce urine, secure essence. TCM Indications: Spleen-stomach vacuity cold, vomiting and diarrhea, cold pain in abdomen, drooling, enuresis due to kidney vacuity, frequent urination, emission, white turbidity. Isolated compounds: 11364, 11614, 11806, 12403, 12800, 12891, 12893, 14536, 15438, 15704, 15705, 16066, 16461, 16462, 16463, 16464, 16465, 16466, 16467, 16468, 16561, 19689, 20204, 20899, 22876, 22877.
- T0361 *Alpinia pinnanensis* (Zingiberaceae); ZHU SUI SHAN JIANG; Pinnan Galangal. Isolated compounds: 986, 987, 988, 3013, 3017, 6843, 6845.
- T0362 *Alpinia* sp. (Zingiberaceae). Isolated compounds: 3695.
- T0363 *Alpinia speciosa* (Zingiberaceae); DA CAO KOU; Beautiful Galangal. Used part: seed. TCM Effects: To dissipate cold and dry damp, dispel phlegm and interrupt malaria, fortify spleen and warm stomach. TCM Indications: Cold pain in heart and abdomen, distention fullness in chest and abdomen, cold-damp accumulation and obstruction, indigestion, vomiting and diarrhea. Isolated compounds: 985, 2550, 3187, 4936, 9669, 14245, 15204.  
*Alsomitra graciliflora* = *Hemsleya graciliflora*
- T0364 *Alsophila spinulosa* (Cyatheaceae); SUO LUO; Spiny Alsophila. Used part: stem. TCM Effects: To dispel wind and eliminate damp, quicken blood and free network vessels, relieve cough and calm asthma, clear heat and resolve toxin, kill worms. TCM Indications: Wind-damp impediment pain, kidney vacuity lumbago, knocks and falls, intestinal pain due to *qi* disorder, wind-fire toothache, cough, asthma, scab and lichen, ascariasis, oxyuria disease, prevention of influenza. Isolated compounds: 9286, 9287.
- T0365 *Alsophila* spp. (Cyatheaceae). Isolated compounds: 22581.

- T0366 *Alstonia angustifolia* (Apocynaceae); XIA YE JI GU CHANG SHAN; Narrowleaf Alstonia\*. Isolated compounds: 670, 995, 5058, 5059, 12451, 13879.
- T0367 *Alstonia boonei* (Apocynaceae); GAN LAO JI GU CHANG SHAN; Boone Alstonia. Isolated compounds: 6699.
- T0368 *Alstonia constricta* (Apocynaceae); SHU JI GU CHANG SHAN; Constricted Alstonia\*. Isolated compounds: 1002, 18623.
- T0369 *Alstonia legouixiae* (Apocynaceae). Isolated compounds: 18303.
- T0370 *Alstonia macrophylla* (Apocynaceae); DA YE TANG JIAO SHU; Deviltree Alstonia. Isolated compounds: 310, 669, 994, 996, 997, 998, 999, 1000, 1001, 1003, 1004, 1005, 1006, 5060, 5061, 6259, 6270, 9776, 9777, 9977, 9978, 13316, 13837, 13878, 14036, 14724, 16292, 16293, 18302, 18303, 20652, 22494, 22495, 22610.
- T0371 *Alstonia mairei* (Apocynaceae); YANG JIAO MIAN; Maire Alstonia. Used part: leaf. TCM Effects: To resolve toxin, stanch bleeding. TCM Indications: Swelling toxin of welling abscess and sore, bleeding due to external injury. Isolated compounds: 942, 17375, 18074, 19386, 21055.
- T0372 *Alstonia quaternata* (Apocynaceae); SI SHU JI GU CHANG SHAN; Quaternary Alstonia\*. Isolated compounds: 18303.
- T0373 *Alstonia restricta* (Apocynaceae); YOU XIAN YA JIAO SHU; Limited Alstonia\*. Isolated compounds: 21055.
- T0374 *Alstonia scholaris* (Apocynaceae); XIANG PI MU; Common Alstonia. Used part: bark or leaf. TCM Effects: To clear heat and resolve toxin, relieve cough and dispel phlegm, stanch bleeding and disperse swelling. TCM Indications: Common cold with fever, lung heat cough asthma, pertussis, icterohepatitis, stomachache, vomiting and diarrhea, malaria, swollen welling abscess and sores, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 1110, 1111, 1249, 3040, 3760, 6698, 6699, 13100, 13501, 14138, 17296, 17329, 18752, 18753, 19612, 20369, 21055, 22092, 22327.
- T0375 *Alstonia spatulata* (Apocynaceae); DAO ZHUANG JI GU CHANG SHAN; Spatulate Alstonia\*. Isolated compounds: 6699.
- T0376 *Alstonia spectabilis* (Apocynaceae); ZHUANG GUAN JI GU CHANG SHAN; Spectacular Alstonia\*. Isolated compounds: 6699.
- T0377 *Alstonia venenata* (Apocynaceae); YIN DU YA JIAO SHU; Venenous Alstonia\*. Isolated compounds: 1007, 12268, 22375.
- T0378 *Alstonia yunnanensis* (Apocynaceae); DIAN JI GU CHANG SHAN; Yunnan Alstonia. Used part: root or branchlet-leaf. TCM Effects: To interrupt malaria, clear heat and resolve toxin, stanch bleeding and disperse swelling. TCM Indications: Malaria, common cold with fever, lung heat cough, swelling pain in throat, mouth and tongue sores, swelling toxin of welling abscess and sore, knocks and falls, bleeding due to external injury. Isolated compounds: 4768, 7012, 16379, 18633, 22368.
- T0379 *Alternanthera philoxeroides* (Amaranthaceae); KONG XIN XIAN; Alligator Alternanthera. Used part: fresh aerial parts. TCM Effects: To clear heat and cool blood, resolve toxin, disinherit urine. TCM Indications: Viral infection, toxic hepatitis, icterohepatitis, epidemic hemorrhagic conjunctivitis, hemoptysis, hematuria, common cold with fever, hemorrhagic fever, measles papules, encephalitis of early stage, encephalitis B, jaundice, strangury-turbidity, epidemic parotitis, eczema, swollen welling abscess, sore and boil, poisonous snake bite. Isolated compounds: 2973, 9588, 9589, 16052, 18743.
- T0380 *Alternanthera repens* (Amaranthaceae); CI HUA LIAN ZI CAO; Spinyflower Alternanthera. Isolated compounds: 6171, 6172, 6173, 6174.
- T0381 *Aithaea officinalis* (Malvaceae); YAO SHU KUI; Marshmallow. Isolated compounds: 20566.
- T0382 *Aithaea rosea* (Malvaceae); SHU KUI HUA; Hollyhock Flower. Used part: flower. TCM Effects: To harmonize blood and stanch bleeding, resolve toxin and dissipate binds. TCM Indications: Blood ejection, spontaneous external bleeding, profuse menstruation, red and white vaginal discharge, urinary and fecal stoppage, child wind papules, malaria, welling abscess and flat abscess with swollen boil, scorpion sting, burns and scalds. Isolated compounds: 9424.
- T0383 *Alyxia sinensis* (Apocynaceae); LIAN ZHU TENG; China Alyxia. Used part: whole herb with root. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, blood stasis and menstrual block, stomachache, diarrhea, knocks and falls, damp beriberi. Isolated compounds: 2170.
- T0384 *Amanita pantherina* (Amanitaceae); BAO BAN E GAO; Leopard Leather Mushroom\*; Tengutake (in Japanese). Isolated compounds: 1052, 10592, 10744.
- T0385 *Amanita phalloides* (Amanitaceae); DU E GAO; Death Cap. Isolated compounds: 17040.
- T0386 *Amanita* spp. (Amanitaceae). Isolated compounds: 10938.
- T0387 *Amaranthus caudatus* (Amaranthaceae); WEI SUI XIAN; Love-lies-bleeding. Used part: root. TCM Effects: To fortify spleen, disperse gan. TCM Indications: Fatigue hypodynamia due to spleen-stomach vacuity, reduced food intake, child gan accumulation. Isolated compounds: 1013, 2318.
- T0388 *Amaranthus lividus* (Amaranthaceae); AO TOU XIAN; Emarginate Amaranth. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, disinherit urine. TCM Indications: Dysentery, diarrhea, swelling toxin of clove sore, poisonous snake bites, stings, inhibited urination [=dysuria], edema. Isolated compounds: 16901.
- T0389 *Amaranthus tricolor* (Amaranthaceae); YAN LAI HONG; Three-coloured Amaranth. Used part: herb. TCM Effects: To clear heat and resolve toxin, disinherit urine and free stool. TCM Indications: Dysentery, urinary and fecal stoppage, snake or insect bites, sore toxin. Isolated compounds: 1013.
- T0390 *Amaryllis belladonna* (Amaryllidaceae); GU TING HUA; Jersey Lily. Isolated compounds: 1016, 1021, 3152, 4241, 9547, 10826, 13241, 16600.
- T0391 *Amaryllis belladonna* [hybrida] (Amaryllidaceae); GU TING HUA ZA JIAO ZHONG; Jersey Lily Hybrid. Isolated compounds: 2219. *Amaryllis radiata* = *Lycoris radiata*
- T0392 *Amberboa lippi* (Asteraceae); LI PU PO JU; Lipp Amberboa\*. Isolated compounds: 1022.
- T0393 *Amberboa muricata* (Asteraceae); AN BEI JU; Muricate Amberboa\*. Isolated compounds: 4565.
- T0394 *Amberboa ramosa* (Asteraceae); FEN ZHI PO JU; Ramose Amberboa\*. Isolated compounds: 1476, 14452, 14511.
- T0395 *Ambrosia acanthicarpa* (Asteraceae); CI GUO TUN CAO; Bur Sage.

- Isolated compounds: 3467.
- T0396 *Ambrosia ambrosioides* (Asteraceae); PU TONG TUN CAO; Ragweed. Isolated compounds: 4624.
- T0397 *Ambrosia artemisiaefolium* (Asteraceae); MEI ZHOU TUN CAO; American Ragweed\*. Isolated compounds: 1028.
- T0398 *Ambrosia artemisiifolia* (Asteraceae); TUN CAO; Common Ragweed. Used part: herb. TCM Effects: To kill snails. Isolated compounds: 4624, 4625, 18081, 18082, 18083, 21328.
- T0399 *Ambrosia chamissonis* (Asteraceae); CHA MI SEN TUN CAO; Chamisson Ragweed. Isolated compounds: 7030.
- T0400 *Ambrosia confertiflora* (Asteraceae); MI HUA TUN CAO; Denseflower Ragweed\*. Isolated compounds: 3972, 19308, 20664.
- T0401 *Ambrosia dumosa* (Asteraceae); BAI CI GUO TUN CAO; White Bur Sage. Isolated compounds: 3972, 7030, 20664.
- T0402 *Ambrosia hispida* (Asteraceae); CU YING MAO TUN CAO; Hispid Ragweed\*. Isolated compounds: 9564.
- T0403 *Ambrosia maritima* (Asteraceae); YAN HAI TUN CAO; Oak-of-Cappadocia. Isolated compounds: 1029.
- T0404 *Ambrosia polystachya* (Asteraceae); DUO SUI TUN CAO; Manyspike Ragweed. Isolated compounds: 8982.
- T0405 *Ambrosia psilostachya* (Asteraceae); LUO SUI TUN CAO; Perennial Ragweed. Isolated compounds: 16674, 18081, 18082, 18083.
- T0406 *Ambrosia psilostachya* var. *coronipifolia* (Asteraceae); GUAN LUO SUI TUN CAO; Crestedspike Ragweed. Isolated compounds: 4087.
- T0407 *Ambrosia* spp. (Asteraceae). Isolated compounds: 16675.
- T0408 *Amelanchier* spp. (Rosaceae). Isolated compounds: 17287.
- T0409 *Amentotaxus yunnanensis* (Taxaceae); YUN NAN SUI HUA SHAN; Yunnan Amentotaxus. Isolated compounds: 5600, 6199, 13126, 19756, 19757, 19983, 20107.
- T0410 *Ammi majus* (Apiaceae); DA A MI; Big Ammi. Isolated compounds: 933, 22774.
- T0411 *Ammi* sp. (Apiaceae). Isolated compounds: 2309.
- T0412 *Ammi visnaga* (Apiaceae); CHI A MI; Tooth Ammi. Isolated compounds: 1960, 5707, 12221, 19227, 22530, 22552, 22553.
- T0413 *Ammocharis coranica* (Amaryllidaceae). Isolated compounds: 472, 4237, 13241, 14352, 14389.
- T0414 *Ammopiptanthus mongolicus* [Syn. *Piptanthus mongolicus*] (Fabaceae); SHA DONG QING; Mongolian Ammopiptanthus. Equivalent plant: *Piptanthus nanus*. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood. TCM Indications: Rheumatic pain in joints, frostbite. Isolated compounds: 16206.
- T0415 *Amomum aculeatum* (Zingiberaceae); CI DOU KOU; Aculeate Amomum\*. Isolated compounds: 589, 10159.
- T0416 *Amomum kravanh* [Syn. *Amomum cardamomum*] (Zingiberaceae); BAI DOU KOU; Round Cardamom. Used part: seed. TCM Effects: To transform damp and move *qi*, warm center and check vomiting, increase appetite and disperse food. TCM Indications: Spleen-stomach *qi* stagnation due to damp obstructing middle-jiao, vomiting with stomach cold, vomiting of milk in infants with stomach cold. Isolated compounds: 2550, 3237, 3241, 3242, 9669, 9671, 9672, 9673, 13771, 20995, 20997.
- T0417 *Amomum longiligulare* (Zingiberaceae); HAI NAN SHA REN; Hainan Amomum. Used part: ripe fruit or seed. TCM Effects: See *Amomum villosum*. TCM Indications: See *Amomum villosum*. Isolated compounds: 2557.
- T0418 *Amomum muricarpum* (Zingiberaceae); YOU GUO DOU KOU; Wartyfruit Amomum. Used part: fruit. TCM Effects: To warm center and transform damp, fortify stomach and disperse food, check vomiting and quiet fetus. TCM Indications: Cold pain in stomach duct, vomiting, diarrhea, malign obstruction in pregnancy, stirring fetus disquieted. Isolated compounds: 15080, 15081.
- T0419 *Amomum villosum* (Zingiberaceae); SHA REN; Villous Amomum. Equivalent plant: *Amomum xanthioides*, *Amomum longiligulare*. Used part: ripe fruit or seed. TCM Effects: To move *qi* and regulate center, harmonize stomach and arouse spleen. TCM Indications: Abdominal pain glomus distention, food stagnation in torpid stomach, dysphagia-occlusion, vomiting, cold dysentery, stirring fetus in pregnancy. Isolated compounds: 2550, 2557, 3048, 15500, 20364.
- T0420 *Amomum xanthioides* (Zingiberaceae); SUO SHA MI; Locklebur-like Amomum. Used part: ripe fruit or seed. TCM Effects: See *Amomum villosum*. TCM Indications: See *Amomum villosum*. Isolated compounds: 1192, 2276, 2548, 2549, 2550, 2557, 9880, 9881, 15976, 22335, 22468.
- T0421 *Amorpha fruticosa* (Fabaceae); ZI SUI HUAI; Indigobush Amorpha. Used part: leaf. TCM Effects: To clear heat and resolve toxin, dispel damp and disperse swelling. TCM Indications: Welling abscess, burns and scalds, eczema. Isolated compounds: 1071, 7481, 7883, 20965.
- T0422 *Amorphophallus* sp. (Araceae). Isolated compounds: 11025.
- T0423 *Ampelopsis brevipedunculata* (Vitaceae); SHE PU TAO; Ampelopsis. Used part: stem-leaf. TCM Effects: To disinhibit urine, clear heat, eliminate inflammation, allay thirst. TCM Indications: Chronic nephritis, hepatitis, pain of hot urine, stomach heat vomiting, wind papules, sore toxin, bleeding due to external injury. Isolated compounds: 1113, 1764, 7441, 12020, 14892, 18643.
- T0424 *Ampelopsis brevipedunculata* var. *hancei* (Vitaceae); GUANG YE SHE PU TAO; Hance Snakegrape. Used part: root and root cortex. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Damp-heat jaundice, enteritis, dysentery, innominate toxin swelling, knocks and falls. Isolated compounds: 1075, 1077, 1078, 16550.
- Ampelopsis cantoniensis* var. *grossedentata* = *Ampelopsis grossedentata*
- T0425 *Ampelopsis chaffanjonii* (Vitaceae); YU YE SHE PU TAO; Chaffanjon Ampelopsis. Isolated compounds: 1079.
- T0426 *Ampelopsis grossedentata* [Syn. *Ampelopsis cantoniensis* var. *grossedentata*] (Vitaceae); XIAN CHI SHE PU TAO; Bigdentate Ampelopsis. Used part: stem-leaf or root. TCM Effects: To clear heat and resolve toxin, disinhibit damp and disperse swelling. TCM Indications: Common cold with fever, swelling pain in throat, icterohepatitis, red eyes with gall, swollen sore of welling abscess and boil. Isolated compounds: 1026, 1074, 15170, 15184.
- T0427 *Ampelopsis japonica* [Syn. *Paullinia japonica*] (Vitaceae); BAI LIAN; Japanese Ampelopsis. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, dissipate binds and relieve pain, close sores and engender flesh. TCM Indications: Swelling toxin of sore and welling abscess, burns and scalds, scrofula, damp sore, warm malaria, fright

- epilepsy, blood dysentery, intestinal wind, hemorrhoids and fistulas, leukorrhea, knocks and falls, bleeding due to external injury. Isolated compounds: 1074, 2687, 8095, 16836.
- T0428 *Ampelopsis megalophylla* (Vitaceae); DA YE SHE PU TAO; Largeleaf Ampelopsis. Used part: branch-leaf. TCM Effects: To clear heat and disinhibit damp, calm liver and lower blood pressure, quicken blood and free network vessels. TCM Indications: Dysentery, diarrhea, dribbling pain of urination, hypertension, dizzy head and distention eyes, knocks and falls. Isolated compounds: 1074.
- T0429 *Amphidinium carterae* (Gymmodiniaceae); KA SHI QIAN GOU ZAO. Isolated compounds: 6426, 6519, 20282.
- T0430 *Amphimedon paraviridis* Sponge Amphimedon paraviridis. Isolated compounds: 6364.
- T0431 *Amphipterygium adstringens* (Julianaceae); SHOU LIAN LIANG YI MU; Cuachalalate (local name). Isolated compounds: 6980, 10364, 19983.
- T0432 *Amphoricarpos neumayeri* ssp. *murbeckii* (Asteraceae). Isolated compounds: 314, 5335, 11756, 11757.
- T0433 *Amphoricarpos neumayeri* ssp. *neumayeri* (Asteraceae). Isolated compounds: 314, 5335, 11756, 11757.
- T0434 *Amsonia sinensis* (Apocynaceae); SHUI GAN CAO; China Amsonia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Children wind-heat, erysipelas, sore toxin. Isolated compounds: 1088, 1089, 19916.
- T0435 *Anabasis aphylla* (Chenopodiaceae); WU YE JIA MU ZEI; Leafless Anabasis. Used part: twig. TCM Effects: To kill worms. Isolated compounds: 1124, 1474, 13104.
- T0436 *Anabasis brevifolia* (Chenopodiaceae); DUAN YE JIA MU ZEI; Shortleaf Anabasis. Isolated compounds: 8625, 10799, 14175.
- T0437 *Anabasis salsa* (Chenopodiaceae); YAN SHENG JIA MU ZEI; Salliving Anabasis. Isolated compounds: 8625, 10799, 14175.
- T0438 *Anacardium occidentale* (Anacardiaceae); DU XIAN ZI; Common Cashew Fruit. Used part: fruit. TCM Effects: To moisten lung and transform phlegm, eliminate vexation and allay thirst. TCM Indications: Cough and counterflow, vexation and thirst. Isolated compounds: 1128, 2380, 3188, 8403, 15279.
- T0439 *Anadenanthera colubrina* (Fabaceae); XI CHANG NAN MEI DOU. Isolated compounds: 1110, 1131, 13097, 13098.
- T0440 *Anagallis arvensis* (Primulaceae); LIU LI FAN LV; Scarlet Pimpernel. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, quicken blood and resolve toxin. TCM Indications: Crane's knee wind, *yin* syndrome with sores, poisonous snake bites, rabid dog bite. Isolated compounds: 1132, 1133, 1825, 1826, 1827.
- T0441 *Anagyris foetida* (Fabaceae); CHOU WEI HONG DOU; Bean Trefoil. Isolated compounds: 1134.
- T0442 *Anamirta cocculus* (Menispermaceae). Isolated compounds: 6097, 17348.
- T0443 *Anamirta paniculata* (Menispermaceae); YIN DU FANG JI. Isolated compounds: 17347.
- T0444 *Ananas comosus* (Bromeliaceae); FENG LI; Pineapple. Used part: pericarp. TCM Effects: To resolve toxin, check dysentery, relieve cough. TCM Indications: Dysentery, cough. Isolated compounds: 4451, 10967, 13126, 20434.
- T0445 *Anaphalis contorta* (Asteraceae); XUAN YE XIANG QING; Coiledleaf Pearleverlasting. Isolated compounds: 7751.
- T0446 *Anaphalis margaritacea* (Asteraceae); DA YE BAI TOU WENG; Common Pearleverlasting. Used part: whole herb with root. TCM Effects: To clear heat and drain fire, dry damp, expel worms. TCM Indications: Blood ejection, stomach fire toothache, damp-heat dysentery, ascariasis, mammary welling abscess, scrofula, ulcer of lower limb. Isolated compounds: 3564, 4947, 6027, 10048.
- T0447 *Anchusa officinalis* (Boraginaceae); YAO YONG NIU SHE CAO; Alkanet. Isolated compounds: 3847, 12925.
- T0448 *Anchusa strigosa* (Boraginaceae); CU MAO NIU SHE CAO; Hemnhem (in Jordan). Isolated compounds: 2454, 9319, 10181, 18663, 18664, 18665, 18666, 20487, 21145, 21489.
- T0449 *Ancistrocladus heyneanus* (Ancistrocladaceae); HAI NI GOU ZHI TENG; Indian Liana. Isolated compounds: 1141, 1142, 1143, 1144, 1145, 1147.
- T0450 *Ancistrocladus korupensis* (Ancistrocladaceae); GOU ZHI TENG; Ancistrocladus\*. Isolated compounds: 14831.
- T0451 *Ancistrocladus likoko* (Ancistrocladaceae); ZHONG FEI GOU ZHI TENG; Central-African Ancistrocladus\*. Isolated compounds: 1146.
- T0452 *Andira inermis* (Fabaceae); WU CI KE YA SHU; Angelin-tree. Isolated compounds: 676, 1928, 3004, 3005, 3006, 3007, 3700, 5659, 7883, 13281, 13638.
- T0453 *Andrographis echinoides* (Acanthaceae); LAN JI CHUAN XIN LIAN; Echiniumlike Andrographis. Isolated compounds: 5604.
- T0454 *Andrographis elongata* (Acanthaceae); SHEN CHANG CHUAN XIN LIAN; Elongate Andrographis\*. Isolated compounds: 10026, 20004, 20007, 20008, 21774.
- T0455 *Andrographis lineata* (Acanthaceae); TIAO WEN CHUAN XIN LIAN; Linea Andrographis\*. Isolated compounds: 5717, 10785, 16869.
- T0456 *Andrographis neesiana* (Acanthaceae). Isolated compounds: 6696, 9506, 10794.
- T0457 *Andrographis paniculata* [Syn. *Justicia paniculata*] (Acanthaceae); CHUAN XIN LIAN; Common Andrographis. Used part: dried aerial parts. TCM Effects: To clear heat and resolve toxin, drain fire, dry damp. TCM Indications: Infection of upper respiratory tract, fever, wind-heat common cold, bacillary dysentery, diarrhea, tonsillitis, pneumonia, tuberculosis, lung heat cough, pulmonary welling abscess, postlithotripsy urinary tract infection, warm disease fever, pertussis, swelling pain in throat, damp-heat jaundice, strangury syndrome, erysipelas, sore and welling abscess, eczema, poisonous snake bite. Isolated compounds: 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 4680, 4876, 4901, 5152, 5167, 5183, 5200, 10024, 10793, 10795, 14137, 14928, 15337, 16609, 16610, 16611, 19987, 20004, 21180.
- T0458 *Andrographis rothii* (Acanthaceae). Isolated compounds: 6695, 10022, 21181.
- T0459 *Andrographis serpyllifolia* (Acanthaceae); BAI LI XIANG YE CHUN XIN LIAN; Andrographis\*. Isolated compounds: 20005, 20006.
- T0460 *Andrographis viscosula* (Acanthaceae); NAN YIN DU CHUAN XIN LIAN; South-India Andrographis\*. Isolated compounds: 10789, 16870, 21183, 21912, 21915.
- T0461 *Andropogon* sp. (Poaceae). Isolated compounds: 17455.

- T0462 *Anemarrhena asphodeloides* (Liliaceae); ZHI MU; Common Anemarrhena. Used part: rhizome. TCM Effects: To clear heat and drain fire, enrich *yin* and moisten dryness, eliminate vexation and allay thirst. TCM Indications: Diabetes mellitus, warm heat disease, ardent fever with vexation and thirst, cough and asthma, dry cough, constipation, steaming bone tidal fever, vacuity vexation and insomnia, strangury-turbidity. Isolated compounds: 1171, 1172, 1173, 1174, 1175, 1176, 1177, 3589, 4298, 4870, 8401, 8670, 9546, 10615, 11524, 13331, 13481, 13569, 13570, 14926, 15397, 15526, 15528, 16827, 19390, 20025, 20027, 20209, 20217, 21393, 21394, 21395, 22796.
- T0463 *Anemone altaica* (Ranunculaceae); A ER TAI YIN LIAN HUA; Altai Anemone\*. Used part: rhizome. TCM Effects: To transform phlegm and open orifices, quiet spirit, diffuse damp and arouse spleen, resolve toxin. TCM Indications: Febrile diseases clouded spirit, epilepsy, *qi*-block deafness, heavy dreams and amnesia, oppression in chest and abdomen distention, inappetence, wind-damp impediment pain, welling abscess and flat abscess, scab and lichen. Isolated compounds: 21209.
- T0464 *Anemone anhuiensis* (Ranunculaceae); AN HUI YIN LIAN HUA; Anhui Anemone\*. Isolated compounds: 1253, 1254, 1255, 1256.
- T0465 *Anemone begoniifolia* (Ranunculaceae); LUAN YE YIN LIAN HUA; Ovateleaf Anemone. Isolated compounds: 2211, 2212, 2213, 14573, 14574.
- T0466 *Anemone coronaria* (Ranunculaceae); HUA GUAN YIN LIAN HUA; St. Brigid. Isolated compounds: 4436, 5013, 5014, 5015, 5016.
- T0467 *Anemone flaccida* (Ranunculaceae); E ZHANG CAO; Flaccid Anemone. Used part: rhizome. TCM Effects: To dispel wind-damp, disinhibit sinews and bones. TCM Indications: Wind-damp pain, knocks and falls. Isolated compounds: 7806.
- T0468 *Anemone hupehensis* (Ranunculaceae); DA PO WAN HUA HUA; Hupeh Anemone. Used part: root. TCM Effects: To clear heat and disinhibit damp, resolve toxin and kill worms, dissipate stasis and disperse swelling. TCM Indications: Dysentery, diarrhea, malaria, ascariasis, swollen welling abscess, sore and boil, scrofula, knocks and falls, acute icterohepatitis. Isolated compounds: 1178.
- T0469 *Anemone obtusiloba* (Ranunculaceae); DUN LIE YIN LIAN HUA; Obtuselobed Anemone. Isolated compounds: 15905, 15906, 15907.
- T0470 *Anemone raddeana* (Ranunculaceae); DUO BEI YIN LIAN HUA; Radde Windflower. Used part: rhizome. TCM Effects: To dispel wind-damp, dissipate cold and relieve pain, disperse swollen welling abscess. TCM Indications: Wind-cold-damp impediment, hypertonicity of limbs, aching pain in joints, swelling pain of welling abscess and sore. Isolated compounds: 6755, 6756, 16059, 18516, 18517, 18518, 18520, 18521.
- T0471 *Anemone rivularis* (Ranunculaceae); HU ZHANG CAO; Brooklet Anemone. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and soothe sinews, disperse swelling, relieve pain. TCM Indications: Swelling pain in throat, mumps, scrofula, swelling toxin of welling abscess and flat abscess, malaria, cough, damp-heat jaundice, wind-damp pain, stomachache, toothache, knocks and falls. Isolated compounds: 2334, 9692, 9693, 9694, 9695, 16060, 18855.
- T0472 *Anethum graveolens* (Apiaceae); SHI LUO ZI; Dill Fruit. Used part: fruit. TCM Effects: To warm spleen and kidney, increase appetite, move *qi*, dissipate cold, resolve toxin of fish and meat. TCM Indications: Sand foulness retching, cold pain in abdomen, cold mounting, glomus fullness. Isolated compounds: 2276, 3237, 5177, 5207, 5209, 5220, 5808, 5810, 6141, 6142, 6193, 7334, 7443, 8237, 8808, 8810, 9841, 10433, 10471, 10953, 12843, 13741, 13747, 13753, 13754, 13777, 13778, 13877, 14419, 20569, 21339, 21359, 22196, 22252.
- T0473 *Anethum* sp. (Apiaceae). Isolated compounds: 12420, 22552.
- T0474 *Angelica acutiloba* [Syn. *Ligusticum acutilobum*] (Apiaceae); DONG DANG GUI; Acute-lobed Angelica. Used part: root. TCM Effects: To supplement blood and quicken blood, regulate menstruation and relieve pain, moisten dryness and lubricate intestines. TCM Indications: Blood vacuity, menstrual disorder, dysmenorrhea, amenorrhea, postpartum abdominal pain, intestinal dry and constipation. Isolated compounds: 2797, 2803, 4550, 7852, 11690, 12825.
- T0475 *Angelica acutiloba* var. *sugiyamae* (Apiaceae); BEI HAI DANG GUI; Northsea Angelica\*. Isolated compounds: 4550, 7852.
- T0476 *Angelica anomala* (Apiaceae); XIA YE DANG GUI; Narrowleaf Angelica. Used part: root. TCM Effects: To dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-cold common cold, headache and nasal congestion, deep-source nasal congestion, gum swelling and pain, swelling of sores, vaginal discharge. Isolated compounds: 1347.
- T0477 *Angelica archangelica* (Apiaceae); YUAN DANG GUI; Angelica. Isolated compounds: 1619, 12395, 16261, 16263, 16457, 21371, 22774, 22775.
- T0478 *Angelica dahurica* [Syn. *Angelica porphyrocaulis*] (Apiaceae); BAI ZHI; Dahurian Angelica. Used part: root. TCM Effects: To dispel wind and resolve exterior, dispel damp and relieve pain. TCM Indications: Wind-cold common cold, nasal congestion, headache (especially in forehead and superciliary region), toothache, infections, acute mastitis, sores, excessive leukorrhea, stomachache. Isolated compounds: 933, 934, 1191, 2041, 2833, 4597, 4598, 4599, 4600, 4601, 4602, 4603, 5098, 6371, 7455, 7672, 9088, 9379, 9486, 11001, 11462, 13571, 13571, 14269, 14391, 14656, 14925, 15348, 15647, 15695, 15699, 15950, 15957, 16457, 16460, 16488, 16833, 17056, 17077, 19542, 19704, 21041, 21043, 21611, 22195, 22220, 22221.
- T0479 *Angelica dahurica* cv. *qibaizhi* (Apiaceae); QI BAI ZHI; Qibaizhi Angelica\*. Used part: root. TCM Effects: See *Angelica taiwaniana*. TCM Indications: See *Angelica taiwaniana*. Isolated compounds: 618, 11001, 11462, 14204, 17077.
- T0480 *Angelica decursiva* [Syn. *Peucedanum decursivum*] (Apiaceae); QIAN HU; Common Hogfennel. Equivalent plant: *Peucedanum praeruptorum*, *Peucedanum longshengens*, *Peucedanum rubricale*, *Ligusticum brachylobum*. Used part: root. TCM Effects: To course wind and dissipate heat, downbear *qi* and transform phlegm. TCM Indications: Cough, externally contracted wind-heat, lung heat phlegm depression, cough and asthma with abundant phlegm, sticky phlegm, retching counterflow and reduced food intake, fullness and oppression in chest and diaphragm. Isolated compounds: 213, 4677, 4678, 4859, 4862, 4863, 7385, 9786, 9787, 12527, 15645, 15647, 16772, 17028, 20225, 22119, 22120, 22121.

- T0481 *Angelica furcijuga* (Apiaceae); FEN CHA DANG GUI; Furcate Angelica\*. Isolated compounds: 1213, 1214, 1523, 1536, 2041, 3857, 6838, 7411, 7768, 9835, 10922, 10923, 10924, 10925, 10926, 10927, 11001, 11412, 11462, 11637, 12020, 16456, 16459, 17034, 17757, 18282, 22195, 22775.
- T0482 *Angelica genuflexa* (Apiaceae); QU XI DANG GUI; Genuflex Angelica\*. Isolated compounds: 17375.
- T0483 *Angelica gigas* (Apiaceae); CHAO XIAN DANG GUI; Gigantic Angelica. Used part: root. TCM Effects: To extinguish wind and harmonize blood. TCM Indications: Pain in joints, wrenching and contusion. Isolated compounds: 4862, 4863, 5098, 7052, 7053, 9968, 10197, 10765, 11462, 13571, 14078, 15645, 15647, 17035, 22195, 22774, 22781.
- T0484 *Angelica glabra* (Apiaceae); GUANG HUA DANG GUI; Glabrate Angelica\*. Isolated compounds: 1193, 2833, 17077.
- T0485 *Angelica japonica* (Apiaceae); RI BEN DANG GUI; Japanese Angelica\*. Isolated compounds: 22530.
- T0486 *Angelica keiskei* (Apiaceae); BIN HAI DANG GUI; Seashore Angelica\*. Isolated compounds: 9992.
- T0487 *Angelica keiskei* (Apiaceae); KAI SHI DANG GUI; Keislce Angelica\*. Isolated compounds: 1619.
- T0488 *Angelica longeradiata* (Apiaceae); CHANG BIAN HUA DANG GUI; Longradiate Angelica\*. Isolated compounds: 1619.
- T0489 *Angelica officinalis* (Apiaceae); YAO YONG DANG GUI; Medicinal Angelica\*. Isolated compounds: 22774.
- T0490 *Angelica pachycarpa* (Apiaceae); HOU GUO DANG GUI; Thickfruit Angelica\*. Isolated compounds: 13571, 14204, 16263.
- T0491 *Angelica polymorpha* (Apiaceae); GUAI QIN; Polymorphic Angelica. Used part: root. TCM Effects: To dispel wind and effuse exterior, warm center and dissipate cold, rectify *qi* and relieve pain. TCM Indications: Wind-cold exterior syndrome, wind-damp impediment pain, pain in stomach duct and abdomen, chest and rib-side pain, knocks and falls. Isolated compounds: 1195.  
*Angelica porphyrocaulis* = *Angelica dahurica*  
*Angelica pubescens* = *Angelica pubescens* f. *biserrata*
- T0492 *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*] (Apiaceae); DU HUO; Doubleteeth Pubescent Angelica. Equivalent plant: *Heracleum lanatum*. Used part: root. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain. TCM Indications: Wind-cold-damp impediment (especially in lower part of body), pain in lumbus and knees, headache, toothache. Isolated compounds: 1048, 1188, 1191, 1193, 1194, 1196, 1197, 1198, 1199, 1200, 1349, 2306, 2411, 2412, 3351, 3935, 3936, 3937, 3938, 4029, 4234, 4497, 4550, 6412, 6485, 6494, 6546, 6741, 7229, 8002, 9044, 9669, 11221, 11249, 11462, 11601, 11628, 13572, 13781, 13827, 14272, 14323, 14324, 14349, 14621, 14631, 14792, 15146, 15219, 15500, 15645, 15647, 15683, 15974, 16261, 16708, 16829, 17055, 17376, 18086, 19542, 20156, 20524, 20988, 21043, 21360, 21371, 22195, 22774.
- T0493 *Angelica radix* (Apiaceae); ZHI GEN DANG GUI; Taproot Angelica\*. Isolated compounds: 2797.
- T0494 *Angelica shkiokiana* (Apiaceae); SHI SHI DANG GUI; Shkioki Angelica\*. Isolated compounds: 7054.
- T0495 *Angelica sinensis* (Apiaceae); DANG GUI; Chinese Angelica. Equivalent plant: *Phlojodicarpus sibiricus*. Used part: root. TCM Effects: To nourish blood and regulate menstruation, quicken blood, relieve pain, moisten intestines and relieve constipation. TCM Indications: Women's diseases, blood deficiency syndrome, menstrual disorder, amenorrhea and dysmenorrhea, dysmenorrhea due to anemia, thrombophlebitis, neuralgia, arthritis, chronic nephritis, constrictive aortitis, blood vacuity, pernicious anemia, anemia due to folic acid deficiency, dysentery, hepatitis, Raynaud's disease, lumbago, various pains due to blood stasis and rheumatic impediment, sores, welling abscess, constipation, ulcer in gastrointestinal tract, skin diseases, eczema, dermatitis, neurodermatitis, psoriasis. Isolated compounds: 555, 556, 557, 558, 617, 618, 939, 1190, 1284, 2056, 2351, 2412, 2600, 2791, 2797, 3045, 3051, 3231, 3350, 3466, 3589, 3855, 4233, 4234, 5442, 5693, 5749, 6317, 6330, 6373, 6398, 6406, 6542, 7472, 7473, 7477, 7768, 7853, 9021, 9071, 9486, 9618, 9619, 11336, 11421, 12800, 12825, 12826, 14330, 15203, 15528, 17056, 17089, 17204, 18656, 19542, 19596, 20369, 20372, 20444, 21041, 21068, 21941, 21957, 22237, 22252, 22322, 22336, 22556.
- T0496 *Angelica* spp. (Apiaceae). Isolated compounds: 22195.
- T0497 *Angelica sylvestris* (Apiaceae); LIN BAI ZHI; Wild Angelica. Isolated compounds: 1960, 11578, 16263.
- T0498 *Angelica taiwaniana* (Apiaceae); HANG BAI ZHI; Taiwan Angelica. Equivalent plant: *Angelica dahurica* cv. *Qibaizhi*. Used part: root. TCM Effects: To dispel wind and eliminate damp, free orifices and relieve pain, disperse swelling and expel pus. TCM Indications: Common cold with headache, eyebrow bone pain, toothache, nasal congestion, deep-source nasal congestion, enduring diarrhea due to damp, leukorrhea, sores with welling abscess and flat abscess, poisonous snake bites. Isolated compounds: 934, 1238, 1347, 2309, 2834, 3856, 11001, 11301, 11462, 11578, 13968, 15348, 17077, 21944, 21969, 22774, 22775.
- T0499 *Angelica ursina* (Apiaceae); BEI FANG DANG GUI; Northern Angelica\*. Isolated compounds: 1193, 9419, 18165.
- T0500 *Anguilla japonica* (Anguillidae); MAN LI YU; Japanese Eel. Used part: meat or whole fish. TCM Effects: To fortify spleen and supplement lung, dispel wind and eliminate damp, resolve toxin and kill worms. TCM Indications: Indigestion, child *gan* accumulation, tuberculosis with cough, impotence, flooding and spotting with vaginal discharge, beriberi with edema, wind-damp bone pain, intestinal wind, dysentery, sore, hemorrhoids and fistulas, malaria, intestinal parasitic disease. Isolated compounds: 1350, 3205, 9568.  
*Anisodus acutangulus* = *Scopolia acutangula*
- T0501 *Anisodus luridus* (Solanaceae); SAI LANG DANG; Common Anisodus. Used part: root. TCM Effects: To resolve spasm and relieve pain. TCM Indications: Stomachache, cholecystalgia, acute gastroenteritis, chronic gastroenteritis. Isolated compounds: 2001, 4417, 19541, 22050.
- T0502 *Anisodus tanguticus* [Syn. *Scopolia tangutica*] (Solanaceae); ZANG QIE; Tangut Anisodus. Used part: root and seed. TCM Effects: To anesthetize and settle pain, resolve tetany and disperse swelling. TCM Indications: Shock, shock due to acute infectious diseases, cerebral thrombosis, acute spinal cord inflammation, spasm of biliary ducts or duodenum, acute gastroenteritis, chronic gastroenteritis, contracture

- pain in stomach duct and abdomen, ascariidosis in biliary tract, gallstones, swelling toxin of welling abscess and flat abscess, knocks and falls, fracture. Isolated compounds: 663, 1287, 1288, 4417, 10870, 10872, 10873, 22050.
- T0503 *Anisomeles indica* [Syn. *Epimeredi indica*] (Lamiaceae); GUANG FANG FENG; Indian Epimeredi. Used part: whole herb. TCM Effects: To dispel wind-damp, disperse sore toxin. TCM Indications: Common cold with fever, wind-damp impediment pain, swelling toxin of welling abscess and sore, eczema of skin, snake or insect bites. Isolated compounds: 6965, 16161, 16280, 16444.
- T0504 *Annona bullata* (Annonaceae); PAO ZHUANG FAN LI ZHI; Bullate Custardapple\*. Isolated compounds: 2735, 16677.
- T0505 *Annona cherimolia* (Annonaceae); MAO YE FAN LI ZHI; Cherimoya. Isolated compounds: 1297, 1298, 1299, 1303, 1304, 1305, 1317, 3512, 3513, 3514, 3515, 6827, 6828, 11793, 12452, 14906, 16266, 18899, 18907, 22099.
- T0506 *Annona glabra* (Annonaceae); YUAN HUA FAN LI ZHI; Glabrous Custardapple. Isolated compounds: 1301, 1307, 1318, 3294, 8494, 8495, 15781, 17041, 18655.
- T0507 *Annona glauca* (Annonaceae); ROU MAO FAN LI ZHI; Glauous Custardapple\*. Isolated compounds: 8508.
- T0508 *Annona montana* (Annonaceae); SHAN FAN LI ZHI; Montana Custardapple\*. Isolated compounds: 1306, 1307, 1308, 1313, 1314, 1315, 1316, 1324, 1325, 8379, 8946, 14934, 14935, 14936, 14937, 14938, 14939, 14940, 14941, 14942, 14943, 22817.
- T0509 *Annona muricata* (Annonaceae); CI GUO FAN LI ZHI; Guanabana. Isolated compounds: 1294, 1295, 1296, 1302, 1307, 1308, 1310, 1311, 1312, 1313, 1315, 1320, 1321, 1322, 1679, 1856, 2735, 4089, 4090, 4091, 4135, 5240, 8946, 11864, 12956, 15082, 15083, 15084, 15084, 15085, 15085, 15087, 15088, 15089, 15090, 15091, 15092, 15093, 15094, 15095, 15096, 15097, 15098, 15099, 15339, 18898, 19096, 20051, 20240, 22816.
- T0510 *Annona purpurea* (Annonaceae); ZI FAN LI ZHI; Soncoya. Isolated compounds: 8524, 16339, 16414, 18211, 18214, 18215, 21246.
- T0511 *Annona reticulata* (Annonaceae); NIU XIN FAN LI ZHI; Bullocksheart Custardapple. Used part: fruit. TCM Effects: To clear heat and check dysentery, expel worms. TCM Indications: Heat toxin dysentery, intestinal parasitic disease. Isolated compounds: 1306, 1317, 1324, 1348, 11223, 11224, 11225, 12917, 14906, 15099, 18653, 18655, 18899, 19198, 20051, 20244, 22818.
- T0512 *Annona spinescens* (Annonaceae); CI ZHUANG FAN LI ZHI; Spined Custardapple\*. Isolated compounds: 17006.
- T0513 *Annona squamosa* (Annonaceae); FAN LI ZHI; Custard Apple. Used part: fruit. TCM Effects: To supplement stomach and spleen, clear heat and resolve toxin, kill worms. TCM Indications: Malign sore and swelling toxin, intestinal parasitic disease. Isolated compounds: 1309, 1319, 1326, 1327, 1328, 1329, 1330, 1331, 1348, 2735, 2736, 5928, 5929, 5930, 5932, 6972, 7788, 9706, 9722, 9723, 9757, 10275, 10276, 10277, 10542, 12178, 12917, 14906, 15766, 18655, 20239, 20240, 20241, 20242, 20244, 20245, 20246, 20247, 20248.
- T0514 *Anodendron affine* (Apocynaceae); SHAN TENG; Common Anodendron. Isolated compounds: 1935, 15493, 22718.
- T0515 *Anredera cordifolia* [Syn. *Baussingaultia cordifolia*; *Baussingaultia gracilis* f. *pseudobaselloides*; *Baussingaultia gracilis* var. *pseudobaselloides*] (Basellaceae); LUO KUI SHU. Used part: dried strumose bulbel in vine. TCM Effects: To supplement kidney and strengthen lumbus, dissipate stasis and disperse swelling. TCM Indications: Impediment pain in lumbus and knees, weakness during convalescence, knocks and falls, fracture. Isolated compounds: 12526.
- T0516 *Anser cygnoides domestica* (Anatidae); BAI E GAO; Goose Fat. Used part: fat of goose. TCM Effects: To moisten skin, disperse swollen welling abscess. TCM Indications: Cracking, deafness, otitis media, dysphagia-occlusion and stomach reflux, drug poisoning, swollen welling abscess, scab and lichen. Isolated compounds: 3511, 20281, 21984.
- T0517 *Anser cygnoides domestica* (Anatidae); E CUI; Goose Tail-meat. Used part: tail meat. TCM Indications: Otitis media, deafness. Isolated compounds: 21194, 21205.
- T0518 *Antennaria geyeri* (Asteraceae). Isolated compounds: 6065, 10567.
- T0519 *Antenoron neofiliforme* (Polygonaceae) DUAN MAO JIN XIAN CAO GEN; Shorthairy Antenoron. Isolated compounds: 17869, 17881.
- T0520 *Anthemis altissima* (Asteraceae); GAO CHUN HUANG JU; Tall Camomile. Isolated compounds: 1352, 1353.
- T0521 *Anthemis carpatica* (Asteraceae). Isolated compounds: 148, 1354, 1356, 1357, 4355, 4715, 5148, 7048, 9730, 10078, 11292, 11293, 11298, 11299, 17932, 21373, 21379.
- T0522 *Anthemis cretica* ssp. *cretica* [Syn. *Anthemis montana*] (Asteraceae); MENG DA NA CHUN HUANG JU; Montana Chamomile\*. Isolated compounds: 1204, 1355.
- T0523 *Anthemis nobilis* (Asteraceae); GAO GUI CHUN HUANG JU; Common Chamomile. Isolated compounds: 1502, 2887, 7768, 15637, 21176, 22035.
- T0524 *Anthemis* sp. (Asteraceae). Isolated compounds: 19545.
- T0525 *Anthemis* spp. (Asteraceae). Isolated compounds: 549.
- T0526 *Anthopleura stell* (Actiniidae); LV HAI KUI; Green Anemone. Isolated compounds: 14816.
- T0527 *Anthoxanthum* sp. (Poaceae). Isolated compounds: 5440.
- T0528 *Anthriscus cerefolium* (Apiaceae); XUE WEI CAI; Garden Chervil. Isolated compounds: 17028.
- T0529 *Anthriscus sylvestris* (Apiaceae); E SHEN; Woodland Beakchervil. Used part: root. TCM Effects: To supplement spleen and boost *qi*, disperse swelling. TCM Indications: Spleen vacuity and food distention, stomachache, lassitude in limbs, cough and asthma due to lung vacuity, senile nocturia, blood ejection from knocks and falls. Isolated compounds: 1232, 1280, 1372, 1621, 2764, 5543, 6367, 9544, 9789, 10833, 11228, 14966, 15647, 16263, 17592, 18832.
- T0530 *Anthyllis sericea* (Fabaceae). Isolated compounds: 6194.
- T0531 *Anthyllis vulneraria* (Fabaceae); LIAO SHANG RONG MAO HUA; Kidney Vetch. Isolated compounds: 7802.
- T0532 *Antiaris africana* (Moraceae); FEI ZHOU JIAN XUE FENG HOU; African Antiaris\*. Isolated compounds: 1377.
- T0533 *Antiaris toxicaria* [Syn. *Ambora toxicaria*] (Moraceae); JIAN XUE FENG HOU; Common Antiaris. Used part: juice and seed. TCM Effects: To strengthen heart, promote vomiting, drain precipitation, anesthetize (juice), resolve heat (seed), promote lactation. TCM Indications: Scrofula (juice), dysentery (seed). Isolated compounds:

- 1374, 1375, 1376, 1377, 1378, 1461, 1462, 13418, 16937, 16959, 20396, 20404.
- T0534 *Antiaris welwitschii* (Moraceae); GANG GUO JIAN XUE FENG HOU; Congo Antiaris\*. Isolated compounds: 1377.
- T0535 *Antidesma bunius* (Euphorbiaceae); WU YUE CHA; Bignay Chinalaurel. Used part: root, leaf and fruit. TCM Effects: To fortify spleen, engender liquid, quicken blood, resolve toxin. TCM Indications: Reduced food intake and diarrhea, fluid damage and thirst, knocks and falls, swelling toxin of welling abscess and sore. Isolated compounds: 4616.
- T0536 *Antirhea acutata* (Moraceae); JIAN RUI MAO CHA; Acute Antirhea\*. Isolated compounds: 1398, 1449, 1450.
- T0537 *Antirrhinum majus* (Scrophulariaceae); JIN YU CAO; Common Snapdragon. Used part: whole herb. TCM Effects: To clear summerheat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Toxin swelling of sores, knocks and falls. Isolated compounds: 1494, 4446.
- T0538 *Antrodia camphorata* (Poliporaceae); Niu-Chang chih; Jang Jy (in Taiwan). Isolated compounds: 1351, 7251, 10234, 10235, 11277, 11278, 11279, 22990, 22991, 22992.
- T0539 *Apis cerana* (Apidae); FENG DU; Apisin. Used part: apisin. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Rheumatic arthritis, aching pain in lumbus muscle, neuralgia, hypertension, urticaria, asthma. Isolated compounds: 9568.
- T0540 *Apis cerana* (Apidae); FENG MI; Honey. Used part: honey. TCM Effects: To supplement stomach and spleen, relax tension and relieve pain, moisten lung and relieve cough, moisten intestines and free stool, moisten skin and engender flesh, resolve toxin. TCM Indications: Pain in stomach duct and abdomen, lung heat dry cough, intestinal dry and constipation, red eyes, mouth sore, enduring sores, wind papule itching, burns and scalds, cracking of hands and feet. Isolated compounds: 351, 7853, 18261.
- T0541 *Apis cerana* (Apidae); FENG RU; Royal Jelly. Used part: royal jelly. TCM Effects: To enrich and supplement, enrich and invigorate, boost liver, fortify spleen. TCM Indications: Weakness during convalescence, gan accumulation, senile vacuity weakness, septicemia, chronic hepatitis, duodenal ulcer, rheumatic arthritis, hypertension, diabetes mellitus, dysfunctional uterine bleeding, infertility. Isolated compounds: 351, 2393, 7853, 9966, 9967, 11083, 11084, 11085, 12399.
- T0542 *Apis cerana* (Apidae); MI LA; Bee Wax. Used part: bee wax. TCM Effects: To resolve toxin, engender flesh, check dysentery, stanch bleeding, settle pain. TCM Indications: Effusion of back from welling abscess and flat abscess, enduring sores, acute heart pain, dysentery with pus and blood, chronic diarrhea, stirring fetus with bleeding, emission, Vaginal discharge. Isolated compounds: 10895, 15190, 15191, 16823, 18096.
- T0543 *Apis mellifera ligustica* (Apidae); FENG JIAO; Propolis. Used part: bee glue. TCM Effects: To eliminate inflammation and relieve pain, moisten skin and engender flesh. TCM Indications: Gastric ulcer, oral ulcer, cervical erosion, zoster, psoriasis, skin chap and pain, clavus, wound, carcinoma. Isolated compounds: 56, 1476, 2330, 2890, 3600, 6399, 6499, 8081, 9967, 11806, 12020, 18317, 18679.
- T0544 *Apium graveolens* (Apiaceae); HAN QIN; Wildcelery. Used part: herb. TCM Effects: To calm liver, clear heat, dispel wind, disinhibit water, stanch bleeding, resolve toxin, lower blood pressure. TCM Indications: Hypertension, hypercholesterolemia, headache and dizziness, red face and eyes, blood strangury, swollen welling abscess. Isolated compounds: 1502, 2791, 3372, 3373, 3374, 3375, 3376, 3377, 3378, 3379, 3380, 3381, 3382, 3604, 3855, 8827, 8990, 9021, 13439, 15204, 16884, 17021, 19784, 21974.
- T0545 *Apium graveolens* var. *dulce* (Apiaceae); HAN QIN BIAN ZHONG; Wildcelery Variety. Isolated compounds: 1476, 2803.
- T0546 *Apium leptophyllum* (Apiaceae); XIAN YE QIN; Thinleaf Celery. Isolated compounds: 19784.
- T0547 *Apium* sp. (Apiaceae). Isolated compounds: 22195.
- T0548 *Aplysia dactylomela* (Aplysiidae). Isolated compounds: 4595.
- T0549 *Aplysia oculifera* (Aplysiidae). Isolated compounds: 20251.
- T0550 *Apocynum androsaemifolium* (Apocynaceae); DIAN DI MEI YE CHA YE HUA; Spreading Dogbane. Isolated compounds: 117, 4549.
- T0551 *Apocynum cannabinum* (Apocynaceae); JIA ZHU TAO MA; Black Indian Hemp. Isolated compounds: 117, 4549.
- T0552 *Apocynum lancifolium* (Apocynaceae); HONG MA; Lanceleaf Dogbane\*. Isolated compounds: 11642, 18317.
- T0553 *Apocynum venetum* (Apocynaceae); LUO BU MA; Dogbane. Used part: whole herb. TCM Effects: To clear heat and calm liver, disinhibit water and disperse edema, check hyperactivity, lower blood pressure. TCM Indications: Cardiac failure, hypertension, edema, cirrhosis with ascites, edema in pregnancy, dizziness, headache, palpitation, insomnia, scant urine with edema, chronic bronchitis, influenza. Isolated compounds: 1367, 1527, 1528, 1529, 1530, 1935, 3308, 4547, 4549, 10887, 11642, 12020, 15416, 18317, 18363, 20397, 20398, 20400.
- T0554 *Aquilaria agallocha* (Thymelaeaceae); CHEN XIANG; Eaglewood. Equivalent plant: *Aquilaria sinensis*. Used part: resinous wood. TCM Effects: To calm, move *qi* and relieve pain, warm center and downbear counterflow, check vomiting, accept *qi* and calm asthma. TCM Indications: Cold pain in stomach duct and abdomen, *qi* counterflow with asthma, stomach cold with retching counterflow, vacuity cold in lumbus and knees, vacuity constipation, *qi* strangury. Isolated compounds: 275, 703, 704, 705, 706, 707, 768, 769, 770, 771, 772, 2111, 2114, 2274, 3831, 4934, 5539, 5660, 5807, 6083, 6486, 6912, 7101, 7179, 8863, 9029, 9030, 9032, 9034, 9036, 9708, 9996, 10211, 10212, 10441, 10617, 11199, 11869, 11870, 11871, 12164, 12375, 12917, 13852, 13906, 13997, 14057, 14058, 14477, 14522, 14725, 14726, 15447, 15768, 17113, 17114, 17119, 17120, 17121, 17122, 19677, 19678, 19682, 19683, 19685, 21030, 21120, 21121, 21131, 21785.
- T0555 *Aquilaria sinensis* (Thymelaeaceae); BAI MU XIANG; Chinese Eaglewood. Used part: resinous wood. TCM Effects: See *Aquilaria agallocha*. TCM Indications: See *Aquilaria agallocha*. Isolated compounds: 704, 706, 1284, 2111, 2112, 2113, 2114, 3566, 4881, 5660, 5996, 6082, 6084, 6258, 6283, 10210, 10439, 10440, 10616, 11245, 11869, 13852, 13999, 14000, 14058, 17113, 19924, 19925.
- T0556 *Aquilaria* sp. (Thymelaeaceae). Isolated compounds: 14057.
- T0557 *Aquilegia ecalcarata* (Ranunculaceae); WU JU LOU DOU CAI;



- Spurless Columbine. Used part: whole herb with root. TCM Effects: To resolve exterior and abate fever, draw out toxin and engender flesh. TCM Indications: Common cold with headache, putrefying sore, yellow-water sore. Isolated compounds: 1476, 1541, 10024, 11233, 13137.
- T0558 *Aquilegia vulgaris* (Ranunculaceae); OU ZHOU LOU DOU CAI; European Columbine. Isolated compounds: 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551.
- T0559 *Arachis hypogaea* (Fabaceae); LUO HUA SHENG; Peanut. Used part: seed. TCM Effects: To fortify spleen and nourish stomach, moisten lung and transform phlegm. TCM Indications: Stomach reflux, scant breast milk, beriberi, lung heat dry cough, dry stool. Isolated compounds: 1056, 1598, 3040, 3585, 5789, 6489, 6855, 6856, 6858, 6859, 6860, 6861, 12714, 12892, 13137, 14350, 14385, 17842, 17866, 17867, 17869, 17884, 17886, 18209, 18643, 20369, 20995, 21415, 22561.
- T0560 *Arachis hypogaea* (Fabaceae); LUO HUA SHENG YOU; Peanut Oil. Used part: seed oil. TCM Effects: To lubricate intestines and precipitate accumulation. TCM Indications: Ileus due to roundworm, mazi-schisis, scalds. Isolated compounds: 8045, 10895.
- T0561 *Arachis hypogaea* (Fabaceae); LUO HUA SHENG ZHI YE; Peanut Branch-leaf. Used part: branchlet-leaf. TCM Effects: To clear heat and resolve toxin, quiet heart and spirit, lower blood pressure. TCM Indications: Knocks and falls, sore toxin. Isolated compounds: 16889.
- T0562 *Arachniodes dimorphophylla* (Dryopteridaceae); Twoshape Arachniodes. Isolated compounds: 11239, 11240.
- T0563 *Arachniodes exilis* (Dryopteridaceae); CI TOU FU YE ER JUE. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, close sores. TCM Indications: Dysentery, burns and scalds. Isolated compounds: 11239, 11240.
- T0564 *Arachniodes nipponica* (Dryopteridaceae); Guizhou Arachniodes. Isolated compounds: 11239, 11240.
- T0565 *Arachniodes simplicior* (Dryopteridaceae); CHANG WEI FU YE ER JUE; Simple Arachniodes. Used part: rhizome. TCM Effects: To clear heat and resolve toxin. TCM Indications: Internal heat and abdominal pain. Isolated compounds: 11239, 11240.
- T0566 *Aragoa cundinamarcensis* (Plantaginaceae). Isolated compounds: 1602.
- T0567 *Aralia armata* (Araliaceae); HU CI CONG MU; Spine Aralia. Used part: root, root cortex, branch-leaf. TCM Effects: To dissipate stasis, dispel wind, disinherit damp, resolve toxin. TCM Indications: Knocks and falls, wind-damp impediment pain, damp-heat jaundice, strangury-turbidity, edema, dysentery, leukorrhea, pain in stomach duct, headache, swelling pain in throat, mammary welling abscess, innominate toxin swelling, scrofula. Isolated compounds: 2973.
- T0568 *Aralia chinensis* (Araliaceae); CONG MU; Japanese Aralia. Equivalent plant: *Aralia dasyphylla*. Used part: bast. TCM Effects: To dispel wind and eliminate damp, disinherit water and harmonize center, quicken blood and resolve toxin. TCM Indications: Pain in joints due to rheumatism, aching in lumbus and legs, kidney vacuity and edema, diabetes mellitus, knocks and falls, fracture, pain in stomach duct, blood ejection, spontaneous external bleeding, malaria, lacquer sore, medullitis, deep pus ulcer. Isolated compounds: 1608, 1611, 16050, 19540.
- T0569 *Aralia cordata* (Araliaceae); TU DANG GUI; Udo. Equivalent plant: *Aralia fargesii*. Used part: rhizome and root. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, harmonize blood and relieve pain. TCM Indications: Wind-damp pain, aching in lumbus and knees, wilting-impediment of limbs, taxation damage in lumbar muscle, crane's knee wind, sprain of hands and feet, fracture, head wind, headache, toothache. Isolated compounds: 3241, 5930, 9669, 10647, 10648, 12178, 12205, 16050, 17371, 17372, 20529.
- T0570 *Aralia dasyphylla* (Araliaceae); TOU XU CONG MU; Hairyleaf Aralia. Used part: bast. TCM Effects: See *Aralia chinensis*. TCM Indications: See *Aralia chinensis*. Isolated compounds: 9266, 10551.
- T0571 *Aralia decaisneana* (Araliaceae); HUANG MAO CONG MU; Yellowhair Aralia. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and free menstruation, resolve toxin and disperse swelling. TCM Indications: Wind-heat common cold and headache, cough, wind-damp impediment pain, aching in lumbus and legs, damp-heat jaundice, edema, strangury-turbidity, vaginal discharge, menstrual block, postpartum wind pain, painful swelling from knocks and falls, pain in stomach duct, swelling pain in throat, gum swelling and pain. Isolated compounds: 1601.
- T0572 *Aralia elata* (Araliaceae); LIAO DONG CONG MU; Liaodong Aralia. Used part: root cortex or bark. TCM Effects: To supplement *qi* and quiet spirit, strengthen essence and enrich kidney, dispel wind and quicken blood, dispel damp and relieve pain. TCM Indications: Neurasthenia, rheumatic arthritis, hepatitis, diabetes mellitus, gastrospasm, constipation, bleeding due to external injury. Isolated compounds: 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 3976, 3977, 3978, 14335, 14629, 16050, 18534, 20383, 20384.
- T0573 *Aralia elata* (Araliaceae); LIAO DONG CONG MU YE; Liaodong Aralia Leaf\*. Used part: tender leaf and gemma. TCM Effects: To clear heat and disinherit damp. TCM Indications: Damp-heat diarrhea, dysentery, edema. Isolated compounds: 1690, 6641, 9272, 16049, 22273.
- T0574 *Aralia fargesii* (Araliaceae); LONG YAN DU HUO; Farges Aralia. Used part: rhizome and root. TCM Effects: See *Aralia cordata*. TCM Indications: See *Aralia cordata*. Isolated compounds: 663, 7707, 19540, 19542, 22195.
- T0575 *Aralia subcapitata* (Araliaceae); AN HUI CONG MU; Subcapitate Aralia. Isolated compounds: 16402.
- T0576 *Aralia taibaiensis* (Araliaceae); TAI BAI CONG MU; Taibaien Aralia. Isolated compounds: 3521, 16052, 20613, 20614, 20615, 20616, 20617, 20618, 20619.
- T0577 *Araucaria angustifolia* (Araucariaceae); ZHAI YE NAN YANG SHAN; Candelabar Tree. Isolated compounds: 7512, 9546, 12520, 15959, 15960, 15961, 17409, 19514, 21938.
- T0578 *Araucaria bidwillii* (Araucariaceae); DA YE NAN YANG SHAN; Bunya Bunya. Isolated compounds: 710, 4376.
- T0579 *Araucaria imbricata* (Araucariaceae). Isolated compounds: 10996.
- T0580 *Araucaria* sp. (Araucariaceae). Isolated compounds: 18864.
- T0581 *Araujia sericifera* (Asclepiadaceae). Isolated compounds: 2230, 2232, 2269, 17785, 17786, 17787, 17788, 17789, 17790, 17791, 17792,

- 17793, 17794, 17795, 17796, 17797, 17798, 17799, 17800, 19189, 19190, 21375, 21378.
- T0582 *Archangelica brevicaulis* [Syn. *Angelica brevicaulis*; *Angelica brevicaulis*] (Apiaceae); DUA JING GU DANG GUI; Shortstem Archangelica\*. Used part: root. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Wind-cold-damp impediment, cold pain in lumbus and knees, headache, toothache. Isolated compounds: 17375.
- T0583 *Archangelica decurrens* (Apiaceae); XIA YAN GU DANG GUI; Decurrent Archangelica. Used part: root. TCM Effects: To dispel wind and disperse macula. TCM Indications: White patch wind. Isolated compounds: 17077.
- T0584 *Arctium lappa* (Asteraceae); NIU BANG GEN; Great Burdock Root. Used part: root. TCM Effects: To dispel wind-heat, disperse swelling toxin. TCM Indications: Wind-heat common cold, headache, cough, wind toxin swollen face, swelling pain in throat, gingiva painful swelling, wind-damp impediment pain, concretion and conglomeration, welling abscess and boil, hemorrhoids, prolapse of rectum. Isolated compounds: 1620, 7419, 7881, 9385, 9521, 11267, 11754, 17090, 21606, 21607, 21619, 21619, 21620.
- T0585 *Arctium lappa* (Asteraceae); NIU BANG YE; Great Burdock Leaf\*. Isolated compounds: 16119.
- T0586 *Arctium lappa* (Asteraceae); NIU BANG ZI; Great Burdock Fruit. Used part: fruit. TCM Effects: To course wind and dissipate heat, diffuse lung and outthrust papules, resolve toxin and disinhibit throat. TCM Indications: Wind-heat common cold, cough with profuse phlegm, measles papules, wind papules, swelling pain in throat, epidemic parotitis, erysipelas, swollen welling abscess and sore toxin. Isolated compounds: 1621, 1623, 11236, 12513, 12514, 12515, 12516, 12517, 12518, 12519, 15340.
- T0587 *Arctostaphylos pumila* (Asteraceae); AI SHENG XIONG GUO; Low Bearberry\*. Isolated compounds: 5332, 5333.
- T0588 *Arctostaphylos uva-ursi* (Ericaceae); XIONG GUO; Bearberry. Isolated compounds: 1618, 14933.
- T0589 *Arcyria cinerea* (Trichiaceae); HUI JIN SE TUAN WANG JUN; Grey Arcyria\*. Isolated compounds: 1625, 2476, 3690, 3691.
- T0590 *Arcyria denudata* (Trichiaceae); AN HONG TUAN WANG JUN; Carnival Candy Slime. Isolated compounds: 2476.
- T0591 *Ardisia arborescens* (Myrsinaceae); XIAO QIAO MU ZI JIN NIU; Small-tree Ardisia\*. Used part: stem cortex. TCM Effects: To resolve exterior and allay fever, diffuse lung and calm panting, quicken blood and dissipate stasis. TCM Indications: Common cold with fever, asthma and abundant phlegm, menstrual disorder, postpartum persistent flow of lochia. Isolated compounds: 1110, 1645, 1646, 1647, 1648, 1649, 4680, 19983, 20444, 21541.
- T0592 *Ardisia colorata* (Myrsinaceae); YOU SE ZI JIN NIU; Colorate Ardisia\*. Isolated compounds: 911, 912, 1650, 1651, 1652, 2312, 2380, 5042, 6767, 8095, 11642, 12018, 15170, 15719, 18317.
- T0593 *Ardisia cornudentata* (Myrsinaceae); XIAN CHI ZI JIN NIU; Glandtooth Ardisia\*. Isolated compounds: 1628, 4061.
- T0594 *Ardisia crenata* (Myrsinaceae); ZHU SHA GEN; Coral Ardisia. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Swelling pain in throat, wind-damp-heat impediment, jaundice, dysentery, knocks and falls, fire flow, mastitis, testitis. Isolated compounds: 6767, 15719, 18546.
- T0595 *Ardisia crispa* (Myrsinaceae); BAI LIANG JIN; Crispatelae Ardisia. Used part: root and rhizome. TCM Effects: To clear heat and disinhibit throat, dispel phlegm and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Swelling pain in throat, cough with inhibited phlegm, damp-heat jaundice, dribbling pain of urination, wind-damp impediment pain, knocks and falls, clove sore, innominate toxin swelling, snake bite. Isolated compounds: 2312.
- T0596 *Ardisia hortorum* (Myrsinaceae); TING YUAN ZI JIN NIU; Curtilage Ardisia\*. Isolated compounds: 2312.
- T0597 *Ardisia humilis* (Myrsinaceae); AI ZI JIN NIU; Low Ardisia\*. Isolated compounds: 6767.
- T0598 *Ardisia japonica* (Myrsinaceae); ZI JIN NIU; Japanese Ardisia. Used part: stem-leaf. TCM Effects: To suppress cough, dispel phlegm, quicken blood, disinhibit urine, resolve toxin. TCM Indications: Chronic trachitis, hepatitis, acute nephritis, chronic nephritis, tuberculosis and hemoptysis, blood ejection, dysentery, hypertension, mounting *qi*, taxation damage and strength desertion, aching sinews and bones, toxin swelling. Isolated compounds: 1643, 1644, 2169, 2312, 6767, 10431, 14221, 15184, 18411.
- T0599 *Ardisia japonica* (Myrsinaceae); ZI JIN NIU GEN; Japanese Ardisia Root. Used part: root. TCM Effects: To dispel wind-phlegm. TCM Indications: Seasonal diaphragm *qi*. Isolated compounds: 14879, 14880, 14881, 14882.
- T0600 *Ardisia mamillata* [Syn. *Tinus mamillata*] (Myrsinaceae); HU SHE HONG; Teat-shaped Ardisia. Used part: whole herb. TCM Effects: To dispel wind and disinhibit damp, clear heat and resolve toxin, quicken blood and stanch bleeding. TCM Indications: Wind-damp impediment pain, jaundice, dysentery, hacking of blood, blood ejection, bloody stool, menstrual block, postpartum persistent flow of lochia, knocks and falls, mammary welling abscess, clove sore. Isolated compounds: 1638, 1639, 1640, 1641, 1642, 4458.
- T0601 *Ardisia pusilla* (Myrsinaceae); CHUAN CHAN JIU JIE LONG; Tiny Ardisia. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and disperse swelling. TCM Indications: Wind-damp impediment pain, jaundice, blood dysentery, dysmenorrhea, knocks and falls, swelling toxin of welling abscess and sore, snake bite. Isolated compounds: 1626, 1627.
- T0602 *Ardisia quinquegona* (Myrsinaceae); LUO SAN SHU; Pentagonal Ardisia. Used part: stem, leaf or root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain. TCM Indications: Swelling pain in throat, swelling of sore welling abscess and boil, knocks and falls, wind-damp impediment pain. Isolated compounds: 1628.
- T0603 *Ardisia sieboldii* DONG YA ZI JIN NIU. Isolated compounds: 1629, 1630, 1631, 1632, 1633, 1634.
- T0604 *Ardisia* spp. (Myrsinaceae). Isolated compounds: 18546.
- T0605 *Ardisia teysmanniana* (Myrsinaceae). Isolated compounds: 1635, 1636, 1637.
- T0606 *Areca catechu* (Arecaceae); BING LANG; Betenutpalm. Used part: seed. TCM Effects: To expel worms, disperse accumulation, precipitate *qi*, move water, interrupt malaria. TCM Indications: Worm

- accumulation, food stagnation, distending pain in stomach duct and abdomen, diarrhea and tenesmus, beriberi, edema, malaria. Isolated compounds: 1654, 1655, 1656, 1657, 1658, 3138, 3308, 6544, 9092, 9093, 9486, 9595, 12569, 12891, 15203, 15205, 17093, 17869, 17876, 17884, 20280, 21045, 21046.
- T0607 *Arenaria juncea* (Caryophyllaceae); LAO NIU JIN; Junc-like Sandwort. Used part: root. TCM Effects: See *Gypsophila pacifica*. TCM Indications: See *Gypsophila pacifica*. Isolated compounds: 1565, 1566, 22823.
- T0608 *Arenaria kansuensis* [Syn. *Arenaria kumaonensis*] (Caryophyllaceae); XUE LING ZHI; Kansu Sandwort. Used part: whole herb. TCM Effects: To clear heat and relieve cough, disinhibit damp and abate jaundice, relieve pain due to impediment. TCM Indications: Fever due to external contraction, lung heat cough, jaundice, strangury-turbidity, wind-damp impediment pain, hypertension. Isolated compounds: 1659, 1660, 1661, 1662, 9634.
- T0609 *Arenaria kansuensis* var. *ovatepetala* (Caryophyllaceae); LUAN BAN ZAO ZHUI; Ovatepetal Sandwort. Isolated compounds: 7768.
- T0610 *Argemone mexicana* (Papaveraceae); JI YING SU; Mexican Pricklepoppy. Used part: whole herb. TCM Effects: To effuse sweat and disinhibit water, clear heat and resolve toxin, relieve pain and itch. TCM Indications: Common cold without sweating, jaundice, strangury, edema, eyelid laceration, mounting *qi*, scab and *lai*, syphilis. Isolated compounds: 112, 930, 1665, 1666, 1667, 2303, 3498, 4290, 16446, 17983, 18376, 19284, 21056, 21255.
- T0611 *Argemone platyceras* (Papaveraceae); KUO GUO JI YING SU; Platyangle Pricklepoppy\*. Isolated compounds: 4459.
- T0612 *Argemone* spp. (Papaveraceae). Isolated compounds: 3498.
- T0613 *Argyrea mollis* (Convolvulaceae); RUAN YIN BEI TENG; Soft *Argyrea*\*. Isolated compounds: 18377.
- T0614 *Argyrea nervosa* (Convolvulaceae); YE MAI YIN BEI TENG; Veined *Argyrea*. Isolated compounds: 16808.
- T0615 *Argyrea populifolia* (Convolvulaceae); YANG YE YIN BEI TENG; Poplar-leaf *Argyrea*\*. Isolated compounds: 7950.
- T0616 *Argyrea speciosa* (Convolvulaceae); MEI LI YIN BEI TENG; Woolly Morning Glory. Isolated compounds: 7950.
- T0617 *Arisaema amurense* (Araceae); DONG BEI TIAN NAN XING; Amur Jackintheulpit. Used part: tuber. TCM Effects: See *Arisaema consanguineum*. TCM Indications: See *Arisaema consanguineum*. Isolated compounds: 3419, 3420, 19983.
- T0618 *Arisaema consanguineum* (Araceae); TIAN NAN XING; Reddish Jackintheulpit. Equivalent plant: *Pinellia pedatisecta*, *Arisaema heterophyllum*, *Arisaema amurense*. Used part: tuber. TCM Effects: To dispel wind and check tetany, transform phlegm and dissipate binds. TCM Indications: Wind stroke with congesting phlegm, deviated eyes and mouth, hemiplegia, deadlimb, wind-phlegm dizziness, epilepsy, fright wind, tetanus, spasm, neuralgia, cough with profuse phlegm, swollen welling abscess, scrofula, poisonous snake bite, knocks and falls, carcinoma of uterine cervix. Isolated compounds: 617, 11697, 13504, 19463, 19983.
- T0619 *Arisaema curvatum* (Araceae); WAN QU TIAN NAN XING; Curvatura Jackintheulpit\*. Isolated compounds: 3911.
- T0620 *Arisaema heterophyllum* (Araceae); YI YE TIAN NAN XING; Diversileaf Jackintheulpit. Used part: tuber. TCM Effects: See *Arisaema consanguineum*. TCM Indications: See *Arisaema consanguineum*. Isolated compounds: 11697, 19463, 19983.
- T0621 *Aristolochia arcuata* (Aristolochiaceae); GONG XING MA DOU LING; Bow-shaped Dutchmanspipe\*. Isolated compounds: 2494, 5853, 5854, 5855, 5862, 6033, 20651.
- T0622 *Aristolochia chamissonis* (Aristolochiaceae); BA XI MA DOU LING; Brazilian Dutchmanspipe\*. Isolated compounds: 2, 6988, 9731, 10291, 10292.
- T0623 *Aristolochia chilensis* (Aristolochiaceae); ZHI LI MA DOU LING; *Aristolochia chilensis*. Isolated compounds: 17429.
- T0624 *Aristolochia contorta* (Aristolochiaceae); BEI MA DOU LING; Northern Dutchmanspipe. Used part: fruit. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 1713, 1715, 13374, 19983.
- T0625 *Aristolochia contorta* (Aristolochiaceae); BEI MA DOU LING GEN; Northern Dutchmanspipe Root. Used part: root. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 917, 1713, 4680, 13258, 13374, 19983.
- T0626 *Aristolochia debilis* [Syn. *Aristolochia longa*] (Aristolochiaceae); MA DOU LING; Slender Dutchmanspipe. Equivalent plant: *Aristolochia contorta*, *Aristolochia indica*, *Aristolochia maxima*, *Aristolochia triangularis*. Used part: fruit. TCM Effects: To clear lung and downbear *qi*, relieve cough and calm asthma, clear and discharge large intestines. TCM Indications: Lung heat cough asthma, phlegm congestion and hasty *qi*, lung vacuity enduring cough, intestinal heat bleeding from hemorrhoids, swelling pain from hemorrhoids, edema. Isolated compounds: 917, 1691, 1703, 1713, 9799, 13374.
- T0627 *Aristolochia debilis* [Syn. *Aristolochia longa*] (Aristolochiaceae); QING MU XIANG; Slender Dutchmanspipe Root. Equivalent plant: *Aristolochia contorta*. Used part: root. TCM Effects: To lower blood pressure, calm liver and relieve pain, resolve toxin and disperse swelling. TCM Indications: Hypertension, gastrospasm, stomachache, infections, chronic bone marrow infection, chronic bronchitis, infection of skin, dizziness and headache, distending pain in chest and abdomen, swollen welling abscess and clove sores, snake or insect bites. Isolated compounds: 917, 1618, 1713, 1714, 4814, 13374, 13843, 16360, 21206.
- T0628 *Aristolochia fangchi* (Aristolochiaceae); GUANG FANG JI; Fangchi. Used part: root. TCM Effects: To dispel wind and relieve pain, clear heat and disinhibit water. TCM Indications: Damp-heat generalized pain, wind-damp impediment pain, edema in lower limb, inhibited urination. Isolated compounds: 917, 1698, 1713, 13374, 19983.
- T0629 *Aristolochia heterophylla* (Aristolochiaceae); HAN FANG JI; Yellowmouth Dutchmanspipe. Used part: root. TCM Effects: To dispel wind and relieve pain, clear heat and disinhibit water. TCM Indications: Rheumatic pain in joints, damp-heat pain in limbs, edema, inhibited urination, beriberi with edema. Isolated compounds: 1713, 1729, 9799, 13374, 21206.
- T0630 *Aristolochia indica* (Aristolochiaceae); YIN DU MA DOU LING; Indian Dutchmanspipe\*. Used part: fruit. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 1710, 1713, 12604.

- T0631 *Aristolochia kaempferi* (Aristolochiaceae); ZHU SHA LIAN; Kaempfer Dutchmanspipe. Used part: tuber. TCM Effects: To move *qi* and relieve pain, clear heat and resolve toxin, lower blood pressure. TCM Indications: *Qi* stagnation and distention in stomach duct, stomachache, abdominal pain, pain in joints due to rheumatism, summerheat-damp diarrhea, swelling of welling abscess and boil, poisonous snake bite, hypertension. Isolated compounds: 1713, 3747, 4459.
- T0632 *Aristolochia manshuriensis* (Aristolochiaceae); GUAN MU TONG; Manchurian Dutchmanspipe. Used part: stem. TCM Effects: To clear heart fire, disinhibit urine, free menstruation and milk. TCM Indications: Mouth sore, tongue sores, vexation and reddish urine, edema, heat strangury with inhibited pain, leukorrhea, amenorrhea and scant milk, damp-heat impediment pain. Isolated compounds: 1691, 1692, 1698, 1699, 1708, 1713, 1716, 1717, 1718, 1720, 1725, 1728, 3340, 4135, 4189, 4957, 5062, 7768, 7777, 7788, 9260, 9818, 11253, 13374, 13512, 13842, 14804, 16050, 19983, 19987, 20369, 22332.
- T0633 *Aristolochia maxima* (Aristolochiaceae); DA MA DOU LING; Maxima Dutchmanspipe\*. Used part: fruit. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 12749.
- T0634 *Aristolochia mollissima* (Aristolochiaceae); MIAN MAO MA DOU LING; Woolly Dutchmanspipe. Used part: rhizome or whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and free network vessels, relieve pain. TCM Indications: Wind-damp impediment pain, numbness in limbs, hypertonicity of sinews and bones, pain in stomach duct and abdomen, painful wound from knocks and falls, bleeding due to external injury, mammary welling abscess, suppurative infection. Isolated compounds: 917, 1692, 1693, 1694, 1697, 1698, 1700, 1711, 1712, 1713, 1716, 1719, 1726, 1727, 1729, 2550, 3408, 3723, 4188, 6466, 7163, 7394, 7395, 11253, 11669, 13339, 13340, 13341, 13342, 13343, 13344, 13345, 13346, 13347, 13348, 13512, 13842, 13844, 14898, 19981, 19983, 20369, 22422, 22423.
- T0635 *Aristolochia moupinensis* (Aristolochiaceae); HUAI TONG; Moupin Dutchmanspipe. Used part: stem or root. TCM Effects: To clear heat and eliminate damp, dispel wind and relieve pain. TCM Indications: Abdominal pain and diarrhea, damp-heat edema, inhibited voidings of reddish urine, hematuria, wind-damp-heat impediment, swollen welling abscess and malign sore, eczema, poisonous snake bite. Isolated compounds: 1713, 7788, 13374, 19983.
- T0636 *Aristolochia pubescens* (Aristolochiaceae); DUAN ROU MAO MA DOU LING; Shortfluff Dutchmanspipe\*. Isolated compounds: 1721, 1722, 5596, 5597.
- T0637 *Aristolochia ridicula* (Aristolochiaceae). Isolated compounds: 18844, 18845, 18846, 21162, 21163, 21164, 21165, 21166, 21167, 21853.
- T0638 *Aristolochia siphon* (Aristolochiaceae); OU ZHOU MA DOU LING; Dutchmanspipe. Isolated compounds: 13374.
- T0639 *Aristolochia* sp. (Aristolochiaceae). Isolated compounds: 1709, 1730.
- T0640 *Aristolochia triangularis* (Aristolochiaceae); SAN JIAO MA DOU LING; Triangular Dutchmanspipe\*. Used part: fruit. TCM Effects: See *Aristolochia debilis*. TCM Indications: See *Aristolochia debilis*. Isolated compounds: 4306, 8085, 12170.
- T0641 *Aristolochia tuberosa* (Aristolochiaceae); KUAI JING MA DOU LING; Tuberos Dutchmanspipe. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, rectify *qi* and relieve pain. TCM Indications: Damp-heat dysentery, diarrhea, pain in stomach duct and abdomen, swelling pain in throat, tuberculosis, poisonous snake bite, swollen welling abscess. Isolated compounds: 1693, 1713, 14370, 22083.
- T0642 *Aristolochia tubiflora* (Aristolochiaceae); GUAN HUA MA DOU LING; Tubeflower Dutchmanspipe. Used part: root. TCM Effects: To clear heat and resolve toxin, move *qi* and relieve pain. TCM Indications: Swelling of sores and boils, poisonous snake bite, pain in stomach duct, enteritis and dysentery, diarrhea, pain in joints due to rheumatism, dysmenorrhea, knocks and falls. Isolated compounds: 1724.
- T0643 *Aristolochia versicolor* (Aristolochiaceae); BIAN SE MA DOU LING; Versicolorous Dutchmanspipe. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Enteritis and diarrhea, bacillary dysentery, swelling pain in throat, parotitis, scrofula, mammary welling abscess, eczema. Isolated compounds: 22422, 22423, 22424, 22425.  
*Armillaria matsutake* = *Tricholoma matsutake*
- T0644 *Armillaria mellea* (Tricholomataceae); MI HUAN JUN; Armillaria Mushroom\*. Used part: sporocarp. TCM Effects: To calm liver and extinguish wind, dispel wind and free network vessels, strengthen sinews and bones. TCM Indications: Dizzy head, headache, sleepless, numbness in limbs, pain in lumbus and legs, coronary heart disease, hypertension, vascular headache, dizziness syndrome, epilepsy. Isolated compounds: 1739, 1740, 1741.
- T0645 *Armillariella mellea* (Tricholomataceae); ZHEN MO; Mellea Armillaria Sporocarp. Used part: sporocarp. TCM Effects: To calm liver and extinguish wind, dispel wind and quicken network vessels, strengthen sinews and bones. TCM Indications: Dizziness, headache, insomnia, numbness in limbs, pain in lumbus and legs, epilepsy. Isolated compounds: 1039, 7250, 7334.
- T0646 *Armillariella tabescens* (Tricholomataceae); LIANG JUN; Armillariella Tabescens. Used part: mycelium. TCM Effects: To eliminate inflammation. TCM Indications: Cholecystitis, hepatitis, appendicitis, otitis media. Isolated compounds: 1742, 1743.
- T0647 *Armoracia lapathifolia* (Brassicaceae); LA GEN; Horseradish. Used part: root. TCM Effects: To disperse food and harmonize center, disinhibit gallbladder, disinhibit urine. TCM Indications: Indigestion, inhibited urination, cholecystitis, arthritis. Isolated compounds: 8591, 8598, 8760, 9614, 19935.
- T0648 *Arnebia euchroma* (Boraginaceae); XIN ZANG JIA ZI CAO; Sinkiang-Tibet Arnebia. Used part: root. TCM Effects: See *Lithospermum erythrorhizon*. TCM Indications: See *Lithospermum erythrorhizon*. Isolated compounds: 244, 309, 514, 909, 1233, 1234, 1259, 1744, 1746, 1747, 5214, 5258, 6178, 6302, 6303, 6495, 10266, 11300, 14120, 15850, 15851, 15852, 15853, 15854, 17747, 19819, 19822, 19823, 20032, 20036, 20968.
- T0649 *Arnebia guttata* (Boraginaceae); JIA ZI CAO; Common Arnebia. Used part: root. TCM Effects: See *Lithospermum erythrorhizon*. TCM Indications: See *Lithospermum erythrorhizon*. Isolated compounds: 309, 514, 5214, 6303, 10266, 19819, 20968.
- T0650 *Arnebia nobilis* (Boraginaceae); GAO GUI JIA ZI CAO; Noble

- Arnebia\*. Isolated compounds: 909, 910, 1745.  
*Arnica japonica* = *Ligularia japonica*
- T0651 *Arnica montana* (Asteraceae); SHAN JIN CHE; Mountain Tobacco. Isolated compounds: 1748.
- T0652 *Arnica* spp. (Asteraceae). Isolated compounds: 10792.
- T0653 *Artabotrys hexapetalus* [Syn. *Annona hexapetalus*] (Annonaceae); YING ZHAO; Sixpetal Tailgrape. Used part: root. TCM Effects: To interrupt malaria. TCM Indications: Malaria. Isolated compounds: 1775, 1776, 1777, 1778, 12917.
- T0654 *Artabotrys maingayi* (Annonaceae); MAN GE YING ZHAO; Mainge Tailgrape\*. Isolated compounds: 15797.
- T0655 *Artabotrys odoratissimus* (Annonaceae); JI XIANG YING ZHAO; Extreme-fragrant Tailgrape\*. Isolated compounds: 15797.
- T0656 *Artabotrys suaveolens* (Annonaceae); XIANG YING ZHAO; Fragrant Tailgrape\*. Isolated compounds: 11344.
- T0657 *Artabotrys uncinatus* (Annonaceae); YOU GOU YING ZHAO; Uncinate Tailgrape\*. Isolated compounds: 473, 1348, 1771, 1772, 1773, 1774, 1780, 1857, 1961, 3746, 5076, 7815, 11344, 11593, 12917, 14535, 14608, 14626, 14827, 15763, 15797, 18655, 19200, 20243, 20317, 20322, 22214.
- T0658 *Artabotrys venustus* (Annonaceae); XIU LI YING ZHAO; Venus Tailgrape\*. Isolated compounds: 15797.
- T0659 *Artemisia absinthium* (Asteraceae); ZHONG YA KU HAO; Common Wormwood. Used part: leaf and stem with flower. TCM Effects: To clear heat and dry damp, expel roundworm, fortify stomach. TCM Indications: Swelling pain in joints, eczema titillation, sore toxin of sore and boil, ascariasis, inappetence. Isolated compounds: 37, 1779, 3464, 12920, 19777, 19783, 21350.
- T0660 *Artemisia annua* (Asteraceae); HUANG HUA HAO; Sweet Wormwood. Equivalent plant: *Artemisia apiacea*. Used part: whole herb. TCM Effects: To clear heat, resolve summerheat, eliminate steam, interrupt malaria. TCM Indications: Summerheat-heat, summerheat-damp, damp warmth, *yin* vacuity fever, malaria, jaundice. Isolated compounds: 336, 872, 1334, 1341, 1345, 1653, 1782, 1783, 1784, 1785, 1786, 1786, 1792, 1794, 1795, 1797, 1799, 1800, 1801, 1935, 2044, 2273, 2295, 2560, 2570, 2850, 2851, 2852, 2853, 3045, 3048, 3195, 3234, 3235, 3241, 3242, 3300, 3300, 3602, 3624, 3674, 3689, 3741, 3743, 3745, 4029, 4140, 4354, 4878, 5587, 5606, 5755, 5787, 6146, 6151, 6236, 6741, 6742, 6891, 7055, 7069, 7108, 7109, 7504, 7583, 7588, 7730, 7735, 7751, 7951, 9726, 10017, 10091, 10108, 10109, 10261, 10262, 10750, 11226, 11259, 11260, 11261, 11428, 11642, 11648, 12020, 12843, 12849, 12850, 13137, 13284, 13982, 14147, 15146, 15665, 15705, 15709, 15710, 15758, 16297, 16298, 16452, 16453, 16725, 16727, 16801, 16851, 17254, 17376, 17377, 17719, 18060, 18288, 18308, 18317, 18376, 18679, 18682, 19087, 19187, 19314, 19540, 19542, 19545, 19983, 20369, 20657, 20989, 20990, 20995, 20999, 21096, 21097, 21349, 21598.
- T0661 *Artemisia anomala* (Asteraceae); LIU JI NU; Diverse Worm-wood. Used part: Whole herb with flower. TCM Effects: To break stasis and free menstruation, stanch bleeding and disperse swelling, disperse food and transform accumulation. TCM Indications: Menstrual block, dysmenorrhea, postpartum stasis stagnation abdominal pain, persistent flow of lochia, concretion and conglomeration, knocks and falls, incised wound and bleeding, wind-damp impediment pain, hemochezia, hematuria, swelling toxin of welling abscess and sore, scalds, food accumulation abdominal pain, diarrhea and dysentery. Isolated compounds: 1126, 1345, 1781, 1787, 1788, 19211, 19635, 19901.
- T0662 *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*] (Asteraceae); QING HAO; Celery Wormwood. Used part: whole herb. TCM Effects: See *Artemisia annua*. TCM Indications: See *Artemisia annua*. Isolated compounds: 1792, 3227, 3228, 3229, 3230, 3241, 3242, 4029, 4648, 5378, 9486, 10229, 10230, 10317, 10539, 14205, 19777, 19783, 20556, 21350.
- T0663 *Artemisia arbuscula* (Asteraceae); BEI MEI AI HAO; Low Sagebrush. Isolated compounds: 1617.
- T0664 *Artemisia argyi* (Asteraceae); AI YE; Argy Wormwood Leaf. Equivalent plant: *Artemisia mongolica*, *Artemisia princeps*, *Artemisia lavandulaefolia*, *Artemisia rubripes*, *Artemisia vulgaris*. Used part: leaf. TCM Effects: To dissipate cold and relieve pain, warm menstruation and stanch bleeding. TCM Indications: Cold pain in abdomen, menstrual disorder due to cold, infertility due to uterus cold, blood ejection, spontaneous external bleeding, flooding and spotting, fetal spotting, itchy skin. Isolated compounds: 1110, 1111, 2850, 3235, 3242, 4471, 4946, 6162, 7759, 9390, 9500, 9564, 10751, 11083, 11084, 11085, 11603, 12448, 13718, 13822, 13900, 14354, 15002, 15003, 15515, 16288, 16289, 17126, 17453, 17938, 18304, 18843, 20369, 20992, 20995, 21047, 21350, 21709, 21856, 21946, 22510, 22922.
- T0665 *Artemisia ashurbajevii* (Asteraceae); A SHI HAO; Ashurbajev Wormwood\*. Isolated compounds: 8982.
- T0666 *Artemisia assoana* (Asteraceae). Isolated compounds: 20559.
- T0667 *Artemisia brevifolia* (Asteraceae); DUAN YE JUAN HAO; Shortleaf Wormwood\*. Isolated compounds: 22778.
- T0668 *Artemisia campestris* (Asteraceae); TIAN YE HAO; Campestral Mugwort. Isolated compounds: 9604, 19174.
- T0669 *Artemisia cana* (Asteraceae); QING AI; Graywhite Wormwood\*. Isolated compounds: 18843.
- T0670 *Artemisia cana* ssp. *viscidula* (Asteraceae); NIAN HAO; Viscid Wormwood\*. Isolated compounds: 1796, 3591, 11615, 22533.
- T0671 *Artemisia canariensis* (Asteraceae); JIA NA LI HAO; Canary Island Wormwood\*. Isolated compounds: 217, 5891, 17375.
- T0672 *Artemisia capillaris* (Asteraceae); YIN CHEN HAO; Capillary Wormwood. Equivalent plant: *Artemisia scoparia*. Used part: aerial parts. TCM Effects: To clear heat and disinhibit damp, abate jaundice. TCM Indications: Hepatitis, jaundice, infective cholecystitis, hyperlipemia, inhibited urination, damp sore, itchy skin. Isolated compounds: 336, 1653, 1807, 1808, 2306, 2843, 2850, 2887, 3116, 3117, 3118, 3119, 3120, 3121, 3122, 3130, 3138, 3139, 3237, 3242, 3741, 3745, 4232, 4233, 4234, 4550, 4914, 4915, 5043, 5049, 6741, 7472, 7473, 7521, 7523, 7577, 7588, 8011, 8289, 8313, 9669, 10482, 10887, 11235, 11648, 11659, 12843, 12891, 13870, 14212, 14213, 15146, 15203, 15354, 15687, 15724, 16066, 17089, 17123, 17376, 17377, 18317, 18682, 19540, 19542, 19983, 20280, 20988, 20995, 21350, 21355, 22336.
- T0673 *Artemisia caruthii* (Asteraceae); KA SI HAO; Caruth Wormwood\*. Isolated compounds: 13605.

*Artemisia cina* = *Seriphidium cinum*

- T0674 *Artemisia compacta* (Asteraceae); MI HAO; Compact Wormwood\*. Isolated compounds: 19314.
- T0675 *Artemisia douglasiana* (Asteraceae); DAO SHI HAO; Douglas Wormwood\*. Isolated compounds: 1789.
- T0676 *Artemisia dracunculus* (Asteraceae); XIA YE QING HAO; Tarragon. Used part: whole herb or root. TCM Effects: To dispel wind and dissipate cold, diffuse lung and suppress cough. TCM Indications: Wind-cold common cold, cough and asthma. Isolated compounds: 13883, 15445, 15446, 15724.
- Artemisia finita* = *Seriphidium finitum*
- T0677 *Artemisia glabella* (Asteraceae); WU MAO HAO; Glabrous Wormwood\*. Isolated compounds: 1675.
- T0678 *Artemisia japonica* (Asteraceae); MU HAO; Japanese Wormwood. Used part: whole herb. TCM Effects: To clear heat, cool blood, resolve toxin. TCM Indications: Summer common cold, tuberculosis tidal fever, hemoptysis, child *gan* fever, spontaneous external bleeding, hematochezia, flooding and spotting, vaginal discharge, icterohepatitis, erysipelas, poisonous snake bite. Isolated compounds: 1793, 2570, 2853, 3241, 3242, 4029, 7735, 21350.
- T0679 *Artemisia klotzschiana* (Asteraceae); KE SHI HAO; Klotzsch Wormwood\*. Isolated compounds: 7521.
- T0680 *Artemisia lactiflora* (Asteraceae); YA JIAO AI; Ghostplant Wormwood. Used part: whole herb. TCM Effects: To quicken blood and dissipate stasis, rectify *qi* and transform damp. TCM Indications: Dysmenorrhea, amenorrhea, postpartum stasis stagnation abdominal pain, chronic hepatitis, liver spleen enlargement, food accumulation abdominal distention, cold-damp diarrhea, mounting *qi*, beriberi, knocks and falls, burns and scalds. Isolated compounds: 9452, 12437, 12438.
- T0681 *Artemisia lavandulaefolia* (Asteraceae); YE AI HAO; Lavenderleaf Wormwood. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 17453.
- T0682 *Artemisia ludoviciana* (Asteraceae); LU DE WEI HAO; Western Sage. Isolated compounds: 13072, 20730.
- T0683 *Artemisia maritima* (Asteraceae); BIN HAO; Santonica. Isolated compounds: 1798, 7481, 11689, 19313.
- T0684 *Artemisia mexicana* var. *angustifolia* (Asteraceae); MO XI GE HAO; Mexico Wormwood\*. Isolated compounds: 13072, 22103.
- T0685 *Artemisia mongolica* (Asteraceae); MENG GU HAO; Mongolian Wormwood. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 14173, 14357, 17090, 17453, 21943.
- T0686 *Artemisia monosperma* (Asteraceae); DAN ZI HAO; Monoseed Wormwood\*. Isolated compounds: 4913, 5801, 6023, 21703.
- T0687 *Artemisia myriantha* (Asteraceae); YI KUA; Manyflower Wormwood. Used part: whole herb. TCM Effects: To clean heat, dispel summerheat, cool blood and stanch bleeding. TCM Indications: Summer common cold, summerheat stroke with fever, steaming bone tidal fever, blood ejection, spontaneous external bleeding. Isolated compounds: 124, 1675, 1803, 1804, 1805, 1806, 4749, 4941, 7066, 9037, 9796, 20677.
- T0688 *Artemisia porrecta* (Asteraceae); SHEN HAO; Porrect Wormwood\*. Isolated compounds: 1186.
- T0689 *Artemisia princeps* (Asteraceae); KUI HAO; First Wormwood. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 14386, 17453.
- T0690 *Artemisia roxburgiana* (Asteraceae); HUI BAO HAO; Roxburgh Wormwood. Isolated compounds: 1110, 1111, 1112, 6575, 7951, 14944, 15935.
- T0691 *Artemisia rubripes* (Asteraceae); HONG ZU HAO; Redfoot Wormwood. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 2170, 7582, 22038.
- T0692 *Artemisia rupestris* [Syn. *Artemisia dentata*; *Artemisia viridis*; *Artemisia viridifolia*] (Asteraceae); XIN JIANG YI ZHI HAO; Rock Wormwood. Used part: whole herb. TCM Effects: To dispel wind and resolve exterior, disperse accumulation and fortify stomach, quicken blood and dissipate stasis. TCM Indications: Wind-cold common cold, food accumulation and *qi* stagnation, distending pain in stomach duct and abdomen, stasis swelling from knocks and falls, wind papules, snake bite. Isolated compounds: 549, 11687, 19068.
- T0693 *Artemisia sativum* (Asteraceae); YUN XIANG YE HAO; Rueleaf Wormwood\*. Isolated compounds: 3048.
- T0694 *Artemisia schrenkiana* (Asteraceae); XUE LING HAO; Schrenk Wormwood\*. Isolated compounds: 19314.
- T0695 *Artemisia scoparia* [Syn. *Artemisia capillaris* var. *scoparia*] (Asteraceae); HUANG HAO; Virgate Wormwood. Used part: aerial parts. TCM Effects: See *Artemisia capillaris*. TCM Indications: See *Artemisia capillaris*. Isolated compounds: 764, 1520, 1792, 2056, 2787, 3117, 3120, 3121, 3122, 3237, 3243, 3300, 3551, 3589, 3688, 3745, 4390, 4550, 5065, 6776, 7521, 8011, 8313, 9749, 11421, 11702, 14146, 15146, 16285, 16587, 17376, 17377, 18393, 18682, 19087, 19187, 19540, 19542, 20137, 21350.
- T0696 *Artemisia sieversiana* (Asteraceae); BAI HAO; Sievers Wormwood. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, cool blood and stanch bleeding. TCM Indications: Wind-cold-damp impediment, jaundice, heat dysentery, scab and *lai*. Isolated compounds: 37, 1779, 19881, 19882.
- T0697 *Artemisia* sp. (Asteraceae). Isolated compounds: 2044, 3076, 3635, 5236, 5414, 15279, 19308, 19313, 19545.
- T0698 *Artemisia* spp. (compositae). Isolated compounds: 17719, 22195.
- T0699 *Artemisia sublessingiana* (Asteraceae); YA LIE XING HAO; Sublessing Wormwood\*. Isolated compounds: 19314.
- T0700 *Artemisia sylvatica* (Asteraceae); LIN DI HAO; Woodland Wormwood. Isolated compounds: 1790, 1791, 1802, 4746, 7195, 7196, 7197, 14097, 15002.
- T0701 *Artemisia taurica* (Asteraceae); NIU HAO; Taurine Wormwood\*. Isolated compounds: 20730.
- T0702 *Artemisia tridentata* (Asteraceae); SAN CHI HAO; Big Sagebrush. Isolated compounds: 1617, 18843.
- T0703 *Artemisia tridentata* ssp. *vaseyana* (Asteraceae); WA SI YA NA SAN CHI HAO; Vaseyana Big Sagebrush\*. Isolated compounds: 11615.
- T0704 *Artemisia tripartita* (Asteraceae); SAN LIE HAO; Tripartite Wormwood\*. Isolated compounds: 18843.
- T0705 *Artemisia vestita* (Asteraceae); MAO LIAN HAO; Hairy Wormwood. Used part: whole herb. TCM Effects: To clear heat, resolve toxin, eliminate steam. TCM Indications: Scourge epidemic with fever,

- steaming bone taxation fever. Isolated compounds: 1110, 4680, 7556, 7951, 9455, 10017, 16758, 20713, 20731, 21095, 22923.
- T0706 *Artemisia vulgaris* (Asteraceae); BEI AI; Mugwort. Used part: leaf. TCM Effects: See *Artemisia argyi*. TCM Indications: See *Artemisia argyi*. Isolated compounds: 2047, 11261, 11742, 14013, 15688, 16331, 20730, 21350, 21596, 22620.
- T0707 *Arthraxon hispidus* (Poaceae); JIN CAO; Hispid Arthraxon. Used part: whole herb. TCM Effects: To relieve cough and asthma, kill worms. TCM Indications: Enduring cough and asthma, hepatitis, pharyngolaryngitis, nasitis, lymphroditis, mastitis, sores scab and lichen. Isolated compounds: 552, 553, 1371.
- T0708 *Arthromeris mairei* [Syn. *Polypodium mairei*] (Polypodiaceae); FENG WEI PA SHAN HU; Mary Arthromeris. Used part: rhizome. TCM Effects: To dispel wind and quicken network vessels, disperse accumulation and free stool, downbear fire, relieve pain, disinhibit urine. TCM Indications: Wind-damp pain in sinew and bone, sciatica, fracture, food accumulation abdominal distention, constipation, red eyes, toothache, headache, inhibited urination, strangury-turbidity. Isolated compounds: 15068.  
*Arthroplytum scoparium* = *Hammada scoparia*
- T0709 *Artocarpus altilis* (Moraceae); FEI HOU MIAN BAO GUO; Fleshy Artocarpus\*. Isolated compounds: 4517.
- T0710 *Artocarpus champeden* (Moraceae); YIN NI MIAN BAO GUO; Cempedak. Isolated compounds: 1815, 1816, 1817, 1818.
- T0711 *Artocarpus dadah* (Moraceae); DA DA HE MIAN BAO GUO; Dadah Artocarpus\*. Isolated compounds: 1387, 1412, 1417, 1421, 1442, 1443, 1444, 1765, 4337, 5679, 14962, 15714, 18643, 20326.
- T0712 *Artocarpus fretessi* (Moraceae). Isolated compounds: 1819, 1820, 1821, 14995, 15038.
- T0713 *Artocarpus heterophyllus* (Moraceae); BO LUO MI; Diversileaf Artocarpus. Used part: fruit. TCM Effects: To engender liquid and eliminate vexation, resolve liquor and arouse spleen. Isolated compounds: 1345, 1821, 4495, 15714.
- T0714 *Artocarpus incisa* [Syn. *Artocarpus communis*] (Moraceae); MIAN BAO GUO; Common Artocarpus\*. Isolated compounds: 1810, 1811, 1812, 1813, 1814, 4517, 8330.
- T0715 *Artocarpus integra* (Moraceae); QUAN YUAN GUI MU; Integerleaf Artocarpus. Isolated compounds: 13918, 14183, 17841.
- T0716 *Artocarpus integrifolia* (Moraceae); QUAN YUAN YE BO LUO MI; Integrifolious Artocarpus\*. Isolated compounds: 14971.
- T0717 *Artocarpus lakoocha* (Moraceae); LA KOU SHA MIAN BAO GUO; Lakoocha Artocarpus\*. Isolated compounds: 4337, 12453, 12454.
- T0718 *Artocarpus nobilis* (Moraceae); GAO GUI BO LUO MI; Noble Artocarpus\*. Isolated compounds: 8330, 21119, 21737, 21745, 21749.  
*Arum cucullatum* = *Alocasia cucullata*
- T0719 *Arum italicum* (Araceae); YI DA LI JIASNG NAN XING; Italian Arum. Isolated compounds: 12525.
- T0720 *Arum* sp. (Araceae). Isolated compounds: 19459.
- T0721 *Arundina chinensis* (Orchidaceae); ZHU YE LAN; Chinese Arundina. Used part: whole herb and rooty stem. TCM Effects: To clear heat and resolve toxin, dispel wind and disinhibit damp, dissipate stasis and relieve pain. TCM Indications: Jaundice, heat strangury, edema, beriberi, mounting *qi*, wind-damp impediment pain, poisonous snake bite, swelling toxin of sore and welling abscess, knocks and falls. Isolated compounds: 3040, 20369.
- T0722 *Arundo donax* (Poaceae); LU ZHU GEN; Giantreed Rhizome. Used part: rhizome. TCM Effects: To clear heat and drain fire, engender liquid and eliminate vexation, disinhibit urine. TCM Indications: Febrile diseases with vexation and thirst, vacuity taxation with steaming bone, blood ejection, heat strangury, inhibited urination, wind-fire toothache. Isolated compounds: 1111, 1112, 2472, 2725, 2726, 3040, 6418, 6419, 6736, 8971, 8972, 8973, 14038, 20369.
- T0723 *Asarum canadense* (Aristolochiaceae); JIA NA DA XI XIN; Canadian Snakeroot. Isolated compounds: 1713, 3455, 3456.
- T0724 *Asarum caulescens* (Aristolochiaceae); SHUANG YE XI XIN; Caulescent Wildginger. Equivalent plant: *Asarum fukienense*. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, relieve pain, warm lung and transform rheum. TCM Indications: Wind-cold common cold, headache, toothache, wind-damp impediment pain, phlegm-rheum cough asthma. Isolated compounds: 1469, 1832, 2550, 6745, 7495, 9862, 19684.
- T0725 *Asarum europaeum* (Aristolochiaceae); OU XI XIN; Asarabacca. Isolated compounds: 1835, 1840, 14531, 19912.
- T0726 *Asarum forbesii* (Aristolochiaceae); DU HENG; Forbes Wildginger. Used part: rhizome and root or whole herb. TCM Effects: To dispel wind and dissipate cold, disperse phlegm and move water, quicken blood and relieve pain, resolve toxin. TCM Indications: Wind-cold common cold, phlegm-rheum cough asthma, edema, wind-cold-damp impediment, knocks and falls, headache, toothache, stomachache, sand *qi* abdominal pain, scrofula, toxin swelling, snake bite. Isolated compounds: 1832, 1836, 1837, 1838, 1839, 6745, 7521, 12115, 12891, 19121.
- T0727 *Asarum fukienense* (Aristolochiaceae); FU JIAN XI XIN; Fukien Wildginger. Used part: whole herb. TCM Effects: See *Asarum caulescens*. TCM Indications: See *Asarum caulescens*. Isolated compounds: 17116.
- T0728 *Asarum heterotropoides* var. *mandshuricum* (Aristolochiaceae); LIAO XI XIN; Manchurian Wildginger. Used part: whole herb. TCM Effects: See *Asarum sieboldii*. TCM Indications: See *Asarum sieboldii*. Isolated compounds: 336, 1713, 1832, 1833, 3045, 3689, 4276, 4550, 6294, 6745, 7385, 7483, 7523, 12115, 12843, 15146, 15204, 16830, 17376, 19099, 19121, 19777, 20990, 20995, 20998.
- T0729 *Asarum maximum* (Aristolochiaceae); DA HUA XI XIN; Largeflower Wildginger. Used part: whole herb with root. TCM Effects: To dispel wind and dissipate cold, relieve cough and dispel phlegm, quicken blood and resolve toxin, relieve pain. TCM Indications: Wind-cold common cold, headache, cough and asthma, wind-damp pain, knocks and falls. Isolated compounds: 1832.
- T0730 *Asarum sagittarioides* (Aristolochiaceae); SHAN CI GU; Arrowhead-like Wildginger. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, resolve toxin and relieve pain. TCM Indications: Common cold, stomachache, toothache, knocks and falls, snake bite. Isolated compounds: 3911, 7702.
- T0731 *Asarum sieboldii* (Aristolochiaceae); XI XIN; Siebold Wildginger. Equivalent plant: *Asarum heterotropoides* var. *mandshuricum*, *Asarum sieboldii* var. *seoulensis*. Used part: whole herb. TCM Effects: To

- dispel wind and dissipate cold, free orifices and relieve pain, warm lung and transform rheum. TCM Indications: Wind-cold common cold, influenza, headache, toothache, local anesthesia, nasal congestion, deep-source nasal congestion, wind-damp impediment pain, phlegm-rheum cough asthma. Isolated compounds: 336, 1713, 1832, 1833, 1834, 3045, 3196, 3231, 3689, 4276, 4550, 6294, 6745, 7385, 7521, 7523, 8340, 11626, 12843, 14810, 15146, 15204, 15252, 16830, 17376, 19099, 19121, 19777, 20992, 20995, 20998, 21919, 21935.
- T0732 *Asarum sieboldii* var. *seoulensis* (Aristolochiaceae); HAN CHENG XI XIN; Seoul Siebold Wildginger. Used part: whole herb. TCM Effects: See *Asarum sieboldii*. TCM Indications: See *Asarum sieboldii*. Isolated compounds: 1713, 19777.
- T0733 *Asarum* spp. (Aristolochiaceae). Isolated compounds: 1834.
- T0734 *Asarum taitoense* (Aristolochiaceae); TAI DONG XI XIN; Taiton Wildginger. Isolated compounds: 1841.
- T0735 *Asclepias albicans* (Asclepiadaceae); BIAN BAI MA LI JIN; White Milkweed. Isolated compounds: 22301.
- T0736 *Asclepias curassavica* (Asclepiadaceae); LIAN SHENG GUI ZI HUA; Bloodflower Milkweed. Used part: herb. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding, disperse swelling and relieve pain. TCM Indications: Swelling pain in throat, lung heat cough, heat strangury, amenorrhea, flooding and spotting, vaginal discharge, swelling toxin of welling abscess and sore, eczema, intractable lichen, bleeding due to external injury. Isolated compounds: 1844, 2937, 2996, 4077, 4092, 22301.
- T0737 *Asclepias eriocarpa* (Asclepiadaceae); MAO GUO MA LI JIN; Hairyfruit Milkweed\*. Isolated compounds: 7272, 12421, 12422.
- T0738 *Asclepias incarnata* (Asclepiadaceae); ROU HONG MA LI JIN; Incarnate Milkweed\*. Isolated compounds: 448, 449, 450, 451, 452, 453, 4796, 4797, 10248, 10249, 10327, 10328, 10329, 10330, 10331, 10332, 10333, 10965, 10966, 11497, 11498, 11499, 11500, 11501, 11502, 12880, 12881, 12882, 12883, 12884, 12885, 13813, 13814, 13815, 13816, 13817, 13818, 15531, 15532, 15533, 18937.
- T0739 *Asclepias speciosa* (Asclepiadaceae); MEI LI MA LI JIN; Beautiful Milkweed\*. Isolated compounds: 1887.
- T0740 *Asclepias syriaca* (Asclepiadaceae); XU LI YA MA LI JIN; Milkweed. Isolated compounds: 1887, 15527, 22305.
- T0741 *Asclepias tuberosa* (Asclepiadaceae); KUAI JING MA LI JIN; Tuberosus Milkweed. Isolated compounds: 7951.
- T0742 *Ascochyta sonchi*. Isolated compounds: 1846.
- T0743 *Asimina parviflora* (Annonaceae); XIAO HUA PAO PAO; Smallflower Pawpaw. Isolated compounds: 16676, 16677.
- T0744 *Asimina triloba* (Annonaceae); PAO PAO SHU; Pawpaw. Isolated compounds: 1858, 1859, 16677.
- T0745 *Asparagus adscendens* (Liliaceae); SHANG JU TIAN MEN DONG; Ascendent Asparagus\*. Isolated compounds: 1868, 1869, 1878, 1879, 1880, 1881, 1883, 1884.
- T0746 *Asparagus cochinchinensis* [Syn. *Asparagus lucidus*] (Liliaceae); TIAN MEN DONG; Cochinchinese Asparagus. Used part: tuberoid. TCM Effects: To enrich *yin* and moisten dryness, clear lung and downbear fire. TCM Indications: *Yin* vacuity fever, cough with blood ejection, lung wilting, pulmonary welling abscess, swelling pain in throat, diabetes mellitus, constipation. Isolated compounds: 1863, 1864, 1865, 1866, 1885, 1905, 1906, 1907, 1908, 3982, 6090, 9546, 10396, 13845, 14023, 14045, 18056, 18711, 19390.
- T0747 *Asparagus curillus* (Liliaceae); WAN QU TIAN MEN DONG; curillus Asparagus\*. Isolated compounds: 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1882, 9086, 9087, 19391.
- T0748 *Asparagus dumosus* (Liliaceae); GUAN MU TIAN MEN DONG; Shrubby Asparagus\*. Isolated compounds: 6636.
- T0749 *Asparagus filicinus* (Liliaceae); TU BAI BU; Fernlike Asparagus. Used part: tuberoid. TCM Effects: To moisten lung and relieve cough, kill worms and relieve itch. TCM Indications: *Yin* vacuity lung dryness, tuberculosis with cough, cough with inhibited phlegm, phlegm containing blood, scab and lichen with itching. Isolated compounds: 1860, 1861, 1862.
- T0750 *Asparagus gobicus* (Liliaceae); GE BI TIAN MEN; Desertliving Asparagus\*. Used part: whole herb. TCM Effects: To dispel wind, kill worms, relieve itch, disperse welling abscess and dissipate binds. TCM Indications: Neurodermatitis, psoriasis, body lichen, swollen welling abscess of sore and boil. Isolated compounds: 1860, 8631, 8632, 8656, 8903, 8904, 9546, 11201, 14044, 14052, 19755, 19997, 22821, 22828.
- T0751 *Asparagus officinalis* (Liliaceae); SHI DIAO BAI; Curinary Asparagus. Used part: tender stem. TCM Effects: To clear heat and disinhibit damp, quicken blood and dissipate binds. TCM Indications: Hepatitis, psoriasis, hyperlipemia, hyperplasia of mammary glands. Isolated compounds: 1396, 1422, 1423, 1830, 1831, 1860, 1861, 7768, 14698, 14931.
- T0752 *Asparagus officinalis* (Liliaceae); XIAO BAI BU; Officinal Asparagus. Used part: tuberoid. TCM Effects: To warm lung, suppress cough, kill worms. TCM Indications: Wind-cold common cold, pertussis, tuberculosis, senile cough and asthma, scab and lichen. Isolated compounds: 1673, 1862, 1866, 1867, 3142, 3501, 4140, 8785.
- T0753 *Asparagus setaceus* [Syn. *Asparagus plumosus*] (Liliaceae); WEN ZHU; Setose Asparagus. Used part: tuberoid or whole herb. TCM Effects: To cool blood and resolve toxin, disinhibit urine and free strangury. TCM Indications: *Yin* vacuity lung dryness, cough, hemoptysis, dribbling urination. Isolated compounds: 9253, 22880.
- T0754 *Asparagus* sp. (Liliaceae). Isolated compounds: 3981, 22336.
- T0755 *Aspergillus fumigatus* (Aspergillaceae); YAN QU MEI. Isolated compounds: 5047.
- T0756 *Aspergillus terreus* (Aspergillaceae). Isolated compounds: 18297.
- T0757 *Asperula odorata* (Rubiaceae); XIANG CHE YE CAO; Sweet Woodruff. Isolated compounds: 899, 901, 1892, 13041, 18222.
- T0758 *Asphodelus* spp. (Liliaceae). Isolated compounds: 3615.
- T0759 *Aspidistra elatior* (Liliaceae); ZHI ZHU BAO DAN; Common Aspidistra. Used part: rhizome. TCM Effects: To quicken blood and relieve pain, clear lung and relieve cough, disinhibit urine and free strangury. TCM Indications: Knocks and falls, wind-damp impediment pain, lumbago, amenorrhea and dysmenorrhea, lung heat cough, sand strangury, inhibited urination. Isolated compounds: 1898, 1899, 1902.
- T0760 *Aspidosperma album* (Apocynaceae). Isolated compounds: 1900.
- T0761 *Aspidosperma campus-belus* (Apocynaceae); BAI JIAN MU; Campus-belu Aspidosperma. Isolated compounds: 16085.
- T0762 *Aspidosperma cuspa* (Apocynaceae); JIAN BAI JIAN MU; Cuspate.



- Isolated compounds: 1901.
- T0763 *Aspidosperma dasycarpon* (Apocynaceae); CU MAO GUO BAI JIAN MU; Hirsutefruit White Quebracho\*. Isolated compounds: 1901, 20578.
- T0764 *Aspidosperma formasanum* (Apocynaceae). Isolated compounds: 1900.
- T0765 *Aspidosperma marcgravianum* (Apocynaceae). Isolated compounds: 1900, 11718.
- T0766 *Aspidosperma meglacarpum* (Apocynaceae). Isolated compounds: 1900.
- T0767 *Aspidosperma multiflorum* (Apocynaceae); DUO HUA BAI JIAN MU; Multiflower White Quebracho\*. Isolated compounds: 12268.
- T0768 *Aspidosperma neblinae* (Apocynaceae). Isolated compounds: 1900.
- T0769 *Aspidosperma nigricans* (Apocynaceae); HEI BAI JIAN MU; Black White Quebracho\*. Isolated compounds: 16085.
- T0770 *Aspidosperma olivaceum* (Apocynaceae); HE LU BAI JIAN MU; Olive-green White Quebracho\*. Isolated compounds: 16085.
- T0771 *Aspidosperma populifolium* (Apocynaceae); SI YANG SHU YE BAI JIAN MU; Poplar-leaf-like White Quebracho\*. Isolated compounds: 12268, 22369.
- T0772 *Aspidosperma quebracho-blanco* (Apocynaceae); PU TONG BAI JIAN MU; Common White Quebracho. Isolated compounds: 1903, 1904.
- T0773 *Aspidosperma refractum* (Apocynaceae). Isolated compounds: 22369.
- T0774 *Aspidosperma rhombeosignatum* (Apocynaceae); LENG ZHUANG BAI JIAN MU; Rhombicsign White Quebracho\*. Isolated compounds: 1904.
- T0775 *Aspidosperma subincanum* (Apocynaceae); WEI BAI BAI JIAN MU; Microwhite White Quebracho\*. Isolated compounds: 6759.
- T0776 *Asplenium prolongatum* (Aspleniaceae); CHANG SHENG TIE JIAO JUE; Prolongated Spleenwort. Used part: whole herb or leaf. TCM Effects: To clear heat and remove damp, transform stasis and stanch bleeding. TCM Indications: Cough and abundant phlegm, wind-damp impediment pain, enteritis and dysentery, urinary tract infection, mastitis, blood ejection, bleeding due to external injury, knocks and falls, burns and scalds. Isolated compounds: 12085.
- T0777 *Aster ageratoides* var. *ovatus* (Asteraceae); LUAN YE SAN ZHE MAI ZI WAN; Ovate-leaf Threevein Aster\*. Isolated compounds: 728, 729, 730, 731, 732, 733, 734, 735.
- T0778 *Aster albescens* (Asteraceae); XIAO SHE ZI WAN; Smallligulatecorolla Aster. Isolated compounds: 7951.
- T0779 *Aster cultivars* (Asteraceae); ZAI PEI ZI WAN; Cultivated Aster\*. Isolated compounds: 3594.
- T0780 *Aster ptarmicoides* (Asteraceae); TUN CAO ZI WAN; Upland White Aster. Isolated compounds: 23000.
- T0781 *Aster tataricus* (Asteraceae); ZI WAN; Tatarion Aster. Used part: root and rhizome. TCM Effects: To moisten lung and precipitate *qi*, relieve cough and dispel phlegm. TCM Indications: Cough and asthma with abundant phlegm, consumption cough and hemoptysis. Isolated compounds: 1186, 1922, 1923, 1927, 1929, 1930, 1931, 1932, 1933, 6918, 7951, 12429, 12430, 18317, 19830, 19831, 19832, 19833.
- T0782 *Asterina pectinifera* HAI YAN. Isolated compounds: 3587, 11622.
- T0783 *Asteriscus vogelii* (Compositae). Isolated compounds: 1924, 1925, 1926, 14492, 14645, 14646, 16346, 16347, 16348, 16427.
- T0784 *Astilbe chinensis* (Saxifragaceae); LUO XIN FU; Chinese Astilbe. Used part: whole herb. TCM Effects: To dispel wind, clear heat, suppress cough. TCM Indications: Wind-heat common cold, headache and generalized pain, cough. Isolated compounds: 2312, 9717, 10607.
- T0785 *Astilbe macroflora* (Saxifragaceae); DA HUA LUO XIN FU; Largeflower Astilbe. Isolated compounds: 2312.
- T0786 *Astragalus atropubescens* (Fabaceae); ROU MAO HUANG QI; Darkhairy Milkvetch\*. Isolated compounds: 14885.
- T0787 *Astragalus bisulcatus* (Fabaceae); ER GOU HUANG QI; Bisulcate Milkvetch\*. Isolated compounds: 19691.
- T0788 *Astragalus canadensis* var. *brevidens* (Fabaceae); DUAN CHI HUANG QI; Shorttooth Milkvetch\*. Isolated compounds: 3634.
- T0789 *Astragalus canadensis* var. *mortonii* (Fabaceae); JIA NA DA HUANG QI; Canadian Milkvetch\*. Isolated compounds: 3634.
- T0790 *Astragalus caprinus* (Fabaceae); SHAN YANG HUANG QI. Isolated compounds: 12101, 12102, 12103, 12104, 12105.
- T0791 *Astragalus chrysopterus* (Fabaceae); JIN YI HUANG QI; Golden-wing Milkvetch\*. Used part: root. TCM Effects: See *Astragalus membranaceus*. TCM Indications: See *Astragalus membranaceus*. Isolated compounds: 1934.
- T0792 *Astragalus cibarius* (Fabaceae); SHI YONG HUANG QI; Edible Milkvetch\*. Isolated compounds: 3634, 4078.
- T0793 *Astragalus complanatus* (Fabaceae); BIAN JING HUANG QI; Flatstem Milkvetch. Used part: seed. TCM Effects: To supplement kidney and secure essence, boost liver and brighten eyes. TCM Indications: Liver kidney vacuity, lumbago and limp leg, emission and premature ejaculation, frequent urination, dizziness and tinnitus, clouded flowery vision. Isolated compounds: 1944, 3949, 11503, 15188, 15371, 15941, 18684, 18707, 18708, 18737, 18738.
- T0794 *Astragalus ernestii* (Fabaceae); SUO GUO HUANG QI; Ernest Milkvetch\*. Used part: root. TCM Effects: See *Astragalus membranaceus*. TCM Indications: See *Astragalus membranaceus*. Isolated compounds: 1851, 1852.
- T0795 *Astragalus falcatus* (Fabaceae); LIAN XING HUANG QI; Falcate Milkvetch\*. Isolated compounds: 3634, 4078, 18859.
- T0796 *Astragalus flexuosus* (Fabaceae); WAN YAN HUANG QI; Flexuous Milkvetch\*. Isolated compounds: 3634, 4078.
- T0797 *Astragalus kahiricus* (Fabaceae); KAI LUO HUANG QI; Cairo Milkvetch\*. Isolated compounds: 12107, 12108, 12109, 12110.
- T0798 *Astragalus membranaceus* (Fabaceae); HUANG QI; Membranous Milkvetch. Equivalent plant: *Astragalus mongholicus*, *Astragalus chrysopterus*, *Astragalus ernestii*. Used part: root. TCM Effects: To boost *qi* and secure exterior, disinherit urine and draw toxin, expel pus, close sores and engender flesh. TCM Indications: Common cold, influenza, chronic wound ulcer, chronic glomerulonephritis, diabetes mellitus due to internal heat, *qi* vacuity edema, chronic gastritis, *qi* vacuity and hypodynamia, reduced food intake and sloppy stool, center *qi* fall, chronic diarrhea, prolapse of rectum, hemochezia, flooding and spotting, spontaneous sweating due to exterior vacuity. Isolated compounds: 326, 617, 618, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1945, 1946, 2318, 3004, 3063, 3589, 4476, 6291, 7852, 7853, 7883, 8761, 9071, 9486, 10031, 11242, 11243, 12020, 12331, 13638, 18317, 19983, 20446, 22252.

- T0799 *Astragalus miser* var. *oblongifolia* (Fabaceae); JU YUAN YE HUANG QI; Oblongleaf Milkvetch\*. Isolated compounds: 14885.
- T0800 *Astragalus mongholicus* (Fabaceae); MENG GU HUANG QI; Mongolian Milkvetch. Used part: root. TCM Effects: See *Astragalus membranaceus*. TCM Indications: See *Astragalus membranaceus*. Isolated compounds: 1936, 1937, 1938, 1939, 3004, 6291, 7883, 10251, 10413, 10520, 11544, 11545, 11546, 12020, 12520, 12891, 12893, 13638, 14533, 15022, 19983, 20446, 22824.
- T0801 *Astragalus oleifolius* (Fabaceae); YOU YE HUANG QI; Oily-leaf Milkvetch\*. Isolated compounds: 1937, 1939, 4478, 16067, 16068.
- T0802 *Astragalus pterocarpus* (Fabaceae); CHI GUO HUANG QI; Wingfruit Milkvetch\*. Isolated compounds: 14885.
- T0803 *Astragalus shikokianus* (Fabaceae); SI GUO HUANG QI; Siko Milkvetch\*. Isolated compounds: 1950, 12075, 18859.
- T0804 *Astragalus sieversianus* (Fabaceae); MIAN MAO HUANG QI; Sieversia Milkvetch. Isolated compounds: 1948, 1949.
- T0805 *Astragalus sinicus* (Fabaceae); ZI YUN YING; Chinese Milkvetch. Used part: herb. TCM Effects: To clear heat and resolve toxin, dispel wind and brighten eyes, cool blood and stanch bleeding. TCM Indications: Pain in throat, wind-phlegm cough, red eyes with gall, clove sore, zoster, scab and lichen, hemorrhoids, gum hemorrhage, bleeding due to external injury, menstrual disorder, vaginal discharge, thrombocytopenic purpura. Isolated compounds: 617, 1935, 3063, 21662.
- T0806 *Astragalus sinicus* (Fabaceae); ZI YUN YING ZI; Chinese Milkvetch Seed. Used part: seed. TCM Effects: To dispel wind and brighten eyes. TCM Indications: Red eyes with gall. Isolated compounds: 9620, 9804.
- T0807 *Astragalus* sp. (Fabaceae). Isolated compounds: 12050, 19676.
- T0808 *Astragalus tetraplerus* (Fabaceae); SI CHI HUANG QI; Fourwing Milkvetch\*. Isolated compounds: 14885.
- T0809 *Astragalus trojanus* (Fabaceae); TE LUO YI HUANG QI; Trojan Milkvetch\*. Isolated compounds: 1947, 22046, 22047, 22048.
- T0810 *Astrantia major* (Rutaceae); DA XING QIN; Astrantia. Isolated compounds: 12420, 16050.
- T0811 *Astrotrichilia voamatata* (Meliaceae). Isolated compounds: 22598, 22599, 22600, 22601.
- T0812 *Asystasia intrusa* (Acanthaceae); CHA RU SHI WAN CUO; Ya-Yaa (Thai name). Isolated compounds: 580, 815, 1952, 2276, 3306, 8613, 18918, 23011.
- T0813 *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (Rutaceae); DONG FENG JU GEN; Boxleaf Atalantia Root. Used part: root. TCM Effects: To dispel stasis and relieve pain, normalize *qi* and transform phlegm. TCM Indications: Painful swelling from knocks and falls, wind-damp pain, fracture, mounting *qi*, common cold, cough, malaria, stomachache. Isolated compounds: 1953, 1957, 1958, 1959, 2010, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 3777, 3778, 8320, 8825, 11758, 11759, 14149, 14443, 19302, 19790, 19983, 20369, 21687.
- T0814 *Atalantia buxifolia* [Syn. *Severinia buxifolia*] (Rutaceae); DONG FENG JU YE; Boxleaf Atalantia Leaf. Used part: root and leaf. TCM Effects: To dispel wind and resolve exterior, relieve cough and transform phlegm, move *qi* and quicken blood, relieve pain. TCM Indications: Common cold with cough, malaria, stomachache, mounting *qi*, wind-damp impediment pain, painful swelling from knocks and falls. Isolated compounds: 1954, 5147, 14174.
- T0815 *Atalantia monophylla* (Rutaceae); DAN YE DONG FENG JU; Monoleaf Atalantia\*. Isolated compounds: 1955, 18272.
- T0816 *Atalantia racemosa* (Rutaceae); ZONG ZHUANG DONG FENG JU YE; Racemose Atalantia Leaf\*. Isolated compounds: 1956.
- T0817 *Atherosperma moschatum* (Atherospermataceae); SHE XIANG MANG ZI. Isolated compounds: 1961.
- T0818 *Athyrium filix-femina* (Athyriaceae); TI GAI JUE; Painted Fern. Isolated compounds: 1897.
- T0819 *Atractylodes chinensis* (Asteraceae); BEI CANG ZHU; Chinese Atractylodes. Used part: rhizome. TCM Effects: See *Atractylodes lancea*. TCM Indications: See *Atractylodes lancea*. Isolated compounds: 327, 1966, 1969, 1970, 1971, 2452, 6746, 7495, 7514, 9542, 10493, 11763, 11764, 12847, 19687.
- T0820 *Atractylodes gummifera* (Asteraceae); OU CANG ZHU; Gummy Atractylodes\*. Isolated compounds: 1972.
- T0821 *Atractylodes japonica* (Asteraceae); GUAN CANG ZHU; Japanese Atractylodes. Used part: rhizome. TCM Effects: See *Atractylodes lancea*. TCM Indications: See *Atractylodes lancea*. Isolated compounds: 1965, 1966, 1969, 5534, 5902, 6833, 7495, 7514, 9542, 9806, 9907, 10432, 17087, 19606, 21739.
- T0822 *Atractylodes koreana* (Asteraceae); CHAO XIAN CANG ZHU; Korean Atractylodes. Isolated compounds: 1966, 1969.
- T0823 *Atractylodes lancea* (Asteraceae); CANG ZHU; Swordlike Atractylodes. Equivalent plant: *Atractylodes chinensis*, *Atractylodes japonica*. Used part: rhizome. TCM Effects: To dispel damp and strengthen spleen, dispel wind, brighten eyes. TCM Indications: Spleen-stomach damp turbidity, fatigue hypodynamia, glomus in chest, abdominal distention, inappetence, vomiting and diarrhea, phlegm-rheum, damp edema, exterior damp, heavy head and generalized pain, damp impediment, aching pain in limbs, crippling wilt, night blindness. Isolated compounds: 125, 618, 1966, 1969, 1971, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 3242, 3466, 4818, 4842, 5902, 6741, 6746, 6833, 7495, 7513, 7514, 8011, 9041, 9042, 9044, 9542, 9669, 9807, 10953, 11634, 13284, 14316, 14782, 19544, 19606, 19687, 20569, 21739, 21740, 22060, 22252.
- T0824 *Atractylodes macrocephala* [Syn. *Atractylis macrocephala*] (Asteraceae); BAI ZHU; Largehead Atractylodes. Used part: root. TCM Effects: To boost *qi* and fortify spleen, dry damp and disinhibit water, check sweating, quiet fetus. TCM Indications: Spleen *qi* vacuity, fatigue hypodynamia, reduced food intake with abdominal distention, sloppy stool, water-rheum collecting internally, inhibited urination, edema, phlegm-rheum dizziness, damp impediment, *qi* vacuity, spontaneous sweating, stirring fetus in pregnancy. Isolated compounds: 1965, 1967, 1968, 1971, 7396, 7495, 11966, 14189, 14190, 14191, 14192.
- T0825 *Atropa belladonna* (Solanaceae); DIAN QIE; Common Atropa. Used part: whole herb. TCM Effects: To resolve spasm and relieve pain, inhibit secretion. TCM Indications: Gastric ulcer, duodenal ulcer, colic of gastrointestinal tract, cholecystalgia, renal colic, vomiting nausea, night sweating, drooling. Isolated compounds: 1526, 2001, 2218, 4417,

- 10870, 10872, 19542, 22195.
- T0826 *Atropa* spp. (Solanaceae). Isolated compounds: 10870.  
*Aucklandia lappa* = *Saussurea lappa*
- T0827 *Aucuba chinensis* ssp. *omeiensis* (Cornaceae); TIAN JIAO BAN; Chinese Aucuba. Used part: leaf. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Swelling toxin of welling abscess and flat abscess, scratch, knocks and falls, burns and scalds, hemorrhoids, frostbite. Isolated compounds: 2003, 2004.
- T0828 *Aucuba japonica* (Cornaceae); DONG YING SHAN HU MU; Japanese Aucuba. Isolated compounds: 2004.
- T0829 *Aulacomnium androgynum* (Aulacomniaceae); ZHOU SHUO XIAN. Isolated compounds: 17147.
- T0830 *Auricularia auricula* (Auriculariaceae); MU ER; Jew's Ear. Equivalent plant: *Auricularia delicata*. Used part: sporocarp. TCM Effects: To supplement *qi* and nourish blood, moisten lung and relieve cough, stanch bleeding, lower blood pressure, anticancer. TCM Indications: *Qi* vacuity and blood depletion, lung vacuity enduring cough, hemoptysis, spontaneous external bleeding, blood dysentery, bleeding from hemorrhoids, flooding and spotting, hypertension, eyeground hemorrhage, carcinoma of uterine cervix, carcinoma of vagina, painful wound from knocks and falls. Isolated compounds: 3039, 7250, 20155.
- T0831 *Auricularia delicata* (Auriculariaceae); ZHOU MU ER; Delicate Jew's Ear\*. Used part: sporocarp. TCM Effects: See *Auricularia auricula*. TCM Indications: See *Auricularia auricula*. Isolated compounds: 16218.
- T0832 *Austrotaxus spicata* (Taxaceae); AO DA LI YA HONG DOU SHAN; Australia Yew. Isolated compounds: 127, 150, 365, 366, 1062, 2024, 2025, 2437, 3958, 4702, 4703, 4718, 4719, 4720, 4773, 4849, 5087, 5322, 6140, 9959, 14136, 15523, 15524, 20157, 20159, 20161, 21532, 22030, 22031.  
*Autonoë madeirensis* = *Scilla maderensis*
- T0833 *Avena sativa* (Poaceae); YAN MAI; Oat. Isolated compounds: 2029, 2030, 2031, 2032, 2033, 15855, 20146, 20147.
- T0834 *Averrhoa carambola* (Oxalidaceae); YANG TAO; Carambola; Country Gooseberry. Used part: fruit. TCM Effects: To clear heat, engender liquid, disinhibit urine, resolve toxin. TCM Indications: Wind-heat cough, sore pharynx, vexation and thirst, stone strangury, oral putrescence, toothache, malaria with splenomegaly, resolve liquor toxin. Isolated compounds: 17264.
- T0835 *Axinyssa* sp. Isolated compounds: 2046, 4880, 11360.
- T0836 *Azadiractica indica* (Meliaceae); YIN DU LIAN; Neem Tree. Isolated compounds: 364, 2051, 12847, 13662, 13663, 15655, 22961.  
*Azalea ovata* = *Rhododendron ovatum*
- T0837 *Azalea* sp. (Ericaceae). Isolated compounds: 491.
- T0838 *Azolla imbricata* [Syn. *Salvinia imbricata*] (Azollaceae); MAN JIANG HONG; Imbricate Mosquito Fern. Used part: leaf. TCM Effects: To resolve exterior and outthrust papules, dispel wind and overcome damp, resolve toxin. TCM Indications: Common cold with cough, non-eruption of measles, wind-damp pain, inhibited urination, edema, urticaria, itchy of skin, sores, cinnabar toxin, burns and scalds. Isolated compounds: 13148.
- T0839 *Azorella compacta* (Apiaceae); MI XIAO YING QIN. Isolated compounds: 261, 262, 10531, 15062.
- T0840 *Azorella cryptantha* (Apiaceae); YIN HUA YAO XIAO YING QIN. Isolated compounds: 2062, 5545.
- T0841 *Azorella yareta* (Apiaceae). Isolated compounds: 2061, 9809, 9810, 15059, 15062.

## B

- T0842 *Babylonia japonica* (Buccinidae); RI BEN DONG FENG LUO. Isolated compounds: 15461.
- T0843 *Babylonia lutosa* (Buccinidae); NI DONG FENG LUO. Used part: meat. TCM Effects: To stanch bleeding, moisten dryness. TCM Indications: Nosebleed(epistaxis), dry stool. Isolated compounds: 20496.
- T0844 *Baccharis dracunculifolia* (Asteraceae); XIAO LONG YE KUO BAO JU; Dracunculi-leaf Pluchea\*. Isolated compounds: 85, 5415, 6580, 6581, 6582, 6583, 6584, 6585, 6586, 6587, 6588, 6589, 6590, 6591, 6592, 6593, 6594, 6595, 6596, 6597, 17410, 17415, 20996.
- T0845 *Baccharis flabellata* (Asteraceae); SHAN XING KUO BAO JU; Sector Pluchea. Isolated compounds: 5497, 7176, 7199.
- T0846 *Baccharis gaudichaudiana* (Asteraceae). Isolated compounds: 2080.
- T0847 *Baccharis indica* [Syn. *Pluchea indica*] (Asteraceae); KUO BAO JU; Indian Pluchea. Used part: stem-leaf or root. TCM Effects: To warm stomach and eliminate accumulation, soften hardness and dissipate binds, dispel wind and eliminate damp. TCM Indications: Child food accumulation, goiter and carcinoma of neck, phlegm node, wind-damp bone pain. Isolated compounds: 17085.
- T0848 *Baccharis latifolia* (Asteraceae); KUAN YE KUO BAO JU; Broadleaf Pluchea\*. Isolated compounds: 17809.
- T0849 *Baccharis ramosissima* (Asteraceae); DUO ZHI KUO BAO JU; Ramose Pluchea\*. Isolated compounds: 14119.
- T0850 *Baccharis sarothroides* (Asteraceae). Isolated compounds: 21711.
- T0851 *Baccharis* spp. (Asteraceae). Isolated compounds: 3551, 16041, 17399, 22768.
- T0852 *Bacopa monniera* (Scrophulariaceae); JIA MA CHI XIAN; Coastal Waterhyssop. Used part: whole herb. TCM Effects: To clear heat and cool blood, resolve toxin and disperse swelling. TCM Indications: Dysentery, red eyes with gall, swelling pain from hemorrhoids, elephantiasis. Isolated compounds: 1476, 1574, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 8604, 11908, 13137, 13580, 14917, 14918, 14919, 15975, 17507, 17508, 20471.
- T0853 *Baeckea frutescens* (Myrtaceae); GANG SONG; Shrubby Baeckea. Used part: leaf, flower and fruit. TCM Effects: To transform stasis and relieve pain, clear heat and resolve toxin, disinhibit urine and free strangury, kill worms and relieve itch. TCM Indications: Stasis swelling from knocks and falls, cirrhosis, heat strangury, heat diarrhea, inhibited urination, pudendal itch, beriberi, eczema, itchy skin, scab and lichen, burns and scalds, snake or insect bites. Isolated compounds: 2097, 2339, 2340, 2341, 2369, 2550, 2555, 4550, 6482, 7752, 8105, 8106, 8618, 8619, 12843, 20995.
- T0854 *Baileya multiradiata* (Asteraceae); BAI LAI SHI JU; Bailai's Chrysanthemum. Isolated compounds: 2109, 7739, 7740, 15071,

- 15073, 15074, 15991, 17557, 18523.
- T0855 *Baileya pauciradiata* (Asteraceae); SHAO BIAN HUA BAI LAI SHI JU; Fewradiate Bailai's Chrysanthemum\*. Isolated compounds: 15991, 16733.
- T0856 *Baileya pleniradiata* (Asteraceae); DUO BIAN HUA BAI LAI SHI JU; Manyradiate Bailai's Chrysanthemum\*. Isolated compounds: 2109, 16733, 17558.
- T0857 *Balanophora abbreviata* (Balanophoraceae); DUAN SHE GU; Abbreviate Balanophora\*. Isolated compounds: 10628.
- T0858 *Balanophora indica* [Syn. *Langodorfia indica*] (Balanophoraceae); YIN DU SHE GU; Indian Balanophora. Isolated compounds: 1122, 13099.
- T0859 *Balanophora involucrata* (Balanophoraceae); TONG QIAO SHE GU; Involute Balanophora. Used part: whole herb. TCM Effects: To moisten lung and relieve cough, move *qi* and fortify stomach, clear heat and disinhibit damp, cool blood and stanch bleeding. TCM Indications: Lung heat cough, pain in stomach duct and abdomen, jaundice, swelling pain from hemorrhoids, knocks and falls, hemoptysis, menstrual disorder, flooding and spotting, bleeding due to external injury, dizziness, emission. Isolated compounds: 14249, 22262.
- T0860 *Balanophora japonica* (Balanophoraceae); GE XUN; Japanese Balanophora. Used part: herb. TCM Effects: To clear heat and resolve toxin, arouse liquor. TCM Indications: Wind-heat macular eruption, lung heat cough, blood ejection, flooding, hemorrhoids. Isolated compounds: 1113, 2125, 2126, 2127, 2128, 2129, 2895, 2897, 2898, 2899, 2902, 2903, 2904, 2905, 2908, 2929, 4167, 5406, 5407, 5408, 5410, 5516, 8612, 11481, 21551.
- T0861 *Baliospermum montanum* (Euphorbiaceae); BAN ZI MU; Montane Baliospermum. Isolated compounds: 2130, 14945.
- T0862 *Ballota limbata* (Lamiaceae); Bui; Phut kandu (local names). Isolated compounds: 2131, 2132.
- T0863 *Ballota nigra* (Lamiaceae); HEI BA LUO CAO; Black Bui\*. Isolated compounds: 2133.
- T0864 *Balsamorhiza macrophylla* (Asteraceae); Cut-leaf Balsamroot. Isolated compounds: 5141, 5143, 14406.
- T0865 *Balsamorhiza sagittata* (Asteraceae); Arrowleaf Balsamroot. Isolated compounds: 5141, 5143, 14406.
- T0866 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*] (Acanthaceae); MA LAN GEN; Common Baphicacanthus Root. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, cool blood and disperse swelling. TCM Indications: Warm toxin macular eruption, ardent fever with headache, massive head scourge, erysipelas, epidemic parotitis, viral hepatitis, influenza, pneumonia, swelling of sores, zoster. Isolated compounds: 580, 4419, 4420, 6230, 6231, 11024, 11463, 13098, 13250, 13251, 22059.
- T0867 *Baphicacanthus cusia* [Syn. *Strobilanthes cusia*] (Acanthaceae); MA LAN YE; Common Baphicacanthus Leaf. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Warm heat disease, ardent fever with headache, macular eruption, lung heat cough, damp-heat diarrhea dysentery, jaundice, scarlatina, measles papules, swelling pain in throat, mouth sore, epidemic parotitis, lymphadenitis, liver welling abscess, intestinal welling abscess, blood ejection, spontaneous external bleeding, gum hemorrhage, flooding and spotting, sore and boil, snake or insect bites. Isolated compounds: 18287.
- T0868 *Baptisia australis* (Fabaceae); AO DA LI YA YAN DIAN. Isolated compounds: 7883.
- T0869 *Baptisia* spp. (Fabaceae). Isolated compounds: 3004, 7883, 16209.
- T0870 *Barbarea vulgaris* (Brassicaceae); OU ZHOU SHAN JIE; Upland Cress. Isolated compounds: 8599.
- T0871 *Barleria lupulina* (Acanthaceae); HUA YE JIA DU JUAN. Used part: whole herb. TCM Effects: To free channels and network vessels, joint sinews and bones, resolve toxin and disperse swelling. TCM Indications: Painful swelling from knocks and falls, fracture, bleeding due to external injury, swollen welling abscess and sore toxin, poisonous snake bites. Isolated compounds: 330, 509, 510, 511, 11129, 13108, 15134, 19795, 19796.
- T0872 *Barleria strigosa* (Acanthaceae); CAO MAO JIA DU JUAN. Isolated compounds: 4154, 10620.
- T0873 *Barleria fistulosa* (Acanthaceae). Isolated compounds: 22608.
- T0874 *Bartramia pomiformis* (Bartramiaceae); LI SHUO ZHU XIAN. Isolated compounds: 1261.
- T0875 *Basella rubra* (Basellaceae); LUO KUI HUA; Red Vinespinach flower. Used part: flower. TCM Effects: To cool blood and resolve toxin. TCM Indications: Cracked nipple. Isolated compounds: 2157, 2158, 2159, 2160, 2323, 9588, 14910, 20165.
- T0876 *Baseonema acuminatum* (Asclepiadaceae); Mamiaho (in Malagasy language, Madagascar). Isolated compounds: 2286, 2296, 5518, 5547, 8107, 12048, 13965, 14101, 15152, 18359, 22616.
- T0877 *Bauhinia championii* (Fabaceae); LONG XU TENG; Champion Bauhinia. Used part: root or stem. TCM Effects: To dispel wind and eliminate damp, move *qi* and quicken blood. TCM Indications: Wind-damp impediment pain, knocks and falls, pain in stomach duct, hemiplegia, *gan* accumulation, dysentery. Isolated compounds: 9509, 16871, 19929, 21188.
- T0878 *Bauhinia malabarica* (Fabaceae); MA LA BA YANG TI JIA; Malaba Bauhinia\*. Isolated compounds: 5095, 17846, 17847, 18515.
- T0879 *Bauhinia purpurea* (Fabaceae); ZI YANG TI JIA; Purple Bauhinia. Used part: leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Sore and boil, burns and scalds, stasis swelling from knocks and falls. Isolated compounds: 18281.
- T0880 *Bauhinia racemosa* (Fabaceae); ZONG ZHUANG HUA YANG TI JIA; Racemose Bauhinia\*. Isolated compounds: 18515.
- T0881 *Bauhinia variegata* (Fabaceae); CAI BAN YANG TI JIA; Variegate Bauhinia\*. Used part: root. TCM Effects: To fortify spleen and eliminate damp, stanch bleeding. TCM Indications: Indigestion, acute gastroenteritis, hepatitis, cough and hemoptysis, pain in joints, knocks and falls. Isolated compounds: 5591, 6263.
- Baussingaultia cordifolia* = *Anredera cordifolia*  
*Baussingaultia gracilis* f. *pseudobaselloides* = *Anredera cordifolia*  
*Baussingaultia gracilis* var. *pseudobaselloides* = *Anredera cordifolia*
- T0882 *Bazzania decrescens* (Fabaceae). Isolated compounds: 10395.
- T0883 *Bazzania japonica* (Lepidoziaceae); RI BEN BIAN TAI; Japanese Flagelliform Liverwort\*. Isolated compounds: 1702, 1705, 6977, 6978, 6979.

- T0884 *Bazzania madagassa* (Lepidoziaceae). Isolated compounds: 559, 5290.
- T0885 *Bazzania trilobata* (Lepidoziaceae); BIAN TAI; Flagelliform Liverwort\*. Isolated compounds: 5797, 21879, 21880, 21881, 21882, 21883, 21884, 21885, 21886.
- T0886 *Beaumontia grandiflora* (Apocynaceae); QING MING HUA; Easter Heraldtrumpet. Used part: root and leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood, relieve pain. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, knocks and falls, swelling pain from fracture. Isolated compounds: 400, 2187, 2190, 14718, 16031, 22629.
- T0887 *Beauveria bassiana* BAI JIANG JUN. Isolated compounds: 2847, 2855, 5784, 9870, 9872, 9873, 9874, 9875, 9876, 20932.
- T0888 *Beesia calthaeifolia* (Ranunculaceae); TIE PO LUO; Marshmarigold-leaved Beesia. Used part: rhizome or whole herb. TCM Effects: To clear heat, resolve toxin, dispel wind. TCM Indications: Wind-heat common cold, wind-damp bone pain, throat pain, red eyes with gall, sore and boil, poisonous snake bites. Isolated compounds: 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 4465, 9455.
- T0889 *Begonia glabra* (Begoniaceae); GUANG JIE QIU HAI TANG; Glabrate Begonia\*. Isolated compounds: 16498, 20978.
- T0890 *Begonia limprichtii* (Begoniaceae); JI YE QIU HAI TANG; Limpricht Begonia. Used part: whole herb with rhizome. TCM Effects: To cool blood and stanch bleeding, dispel stasis and relieve pain. TCM Indications: Flooding and spotting with vaginal discharge, blood ejection, dysentery, stasis pain from knocks and falls, poisonous snake bite. Isolated compounds: 20378.
- T0891 *Begonia nantoensis* (Begoniaceae); NAN TOU QIU HAI TANG; Nantou Begonia\*. Isolated compounds: 27, 2006, 2210, 3309, 4317, 4320, 4323, 5573, 5574, 5789, 11029, 14473, 15249.
- T0892 *Belamcanda chinensis* (Iridaceae); SHE GAN; Blackberrylily. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, disperse phlegm, disinhibit throat. TCM Indications: Heat toxin and phlegm-fire stasis, swelling pain in throat, cough and asthma. Isolated compounds: 439, 2215, 2216, 2217, 5647, 9826, 11141, 11142, 11154, 11164, 11164, 11466, 13481, 16691, 18682, 19797, 19798, 19799, 20900, 20901, 21129, 21130, 22344.
- T0893 *Bellis perennis* (Asteraceae); CHU JU; English Daisy. Isolated compounds: 22526.
- T0894 *Benincasa hispida* (Cucurbitaceae); DONG GUA PI; Chinese Waxgourd Peel. Used part: exocarp. TCM Effects: To clear heat and disinhibit water, disperse swelling. TCM Indications: Edema, inhibited urination [=dysuria], diarrhea, swelling of sores. Isolated compounds: 11548, 15528, 19901.
- T0895 *Benincasa hispida* (Cucurbitaceae); DONG GUA ZI; Chinese Waxgourd Seed. Used part: seed. TCM Effects: To clear lung and transform phlegm, disperse welling abscess and expel pus, disinhibit damp. TCM Indications: Phlegm-heat cough, pulmonary welling abscess, intestinal welling abscess, white turbidity, vaginal discharge, beriberi, edema, strangury syndrome. Isolated compounds: 3774, 19901, 21662, 22246.
- T0896 *Berberis actinacantha* (Berberidaceae); CU CI XIAO BO; Actino-spiny Barberry. Isolated compounds: 2304.
- T0897 *Berberis amurensis* (Berberidaceae); XIAO BO; Amur Barberry. Used part: root and branchlet. TCM Effects: To clear heat and dry damp, resolve toxin. TCM Indications: Enteritis, dysentery, chronic cholecystitis, acute hepatitis, chronic hepatitis, bacillary dysentery, infection of upper respiratory tract, urinary tract infection, leukopenic complications of carcinoma, innominate toxin swelling, erysipelas, eczema, red eyes, mouth sore. Isolated compounds: 2301, 3934, 11851, 13374, 16439, 16441, 16555.
- T0898 *Berberis baluchistanica* (Berberidaceae); BI LU ZHI XIAO BO; Baluchistan Barberry. Isolated compounds: 4100, 4101, 16537.
- T0899 *Berberis buxifolia* (Berberidaceae); HUANG YANG XIAO BO; Box-leaved Barberry. Isolated compounds: 2938.
- T0900 *Berberis calliobotrys* (Berberidaceae); MEI SUI XIAO BO; Beautiful-raceme Barberry. Isolated compounds: 16537.
- T0901 *Berberis darwinii* (Berberidaceae); DA ER WEN XIAO BO; Darwin Barberry. Isolated compounds: 2304.
- T0902 *Berberis diaphana* (Berberidaceae); XIAN HUANG XIAO BO; Reddrop Barberry. Used part: endoderm root bark and branch bark. TCM Effects: To clear damp heat, resolve heat toxin. TCM Indications: Damp-heat dysentery, jaundice, vaginal discharge, heat toxin swollen welling abscess. Isolated compounds: 2300, 2303, 11851, 16555.
- T0903 *Berberis dubia* (Berberidaceae); ZHI YI XIAO BO; Dubious Barberry. Isolated compounds: 2300, 2303, 11851, 16555.
- T0904 *Berberis floribunda* (Berberidaceae); DUO HUA XIAO BO; Free-flowering Barberry. Isolated compounds: 6835, 16439.
- T0905 *Berberis integerrima* (Berberidaceae); QUAN YUAN YE XIAO BO; Integrifolious Barberry. Isolated compounds: 16439.
- T0906 *Berberis julianae* (Berberidaceae); TU HUANG LIAN; Wintergreen Barberry. Used part: root or whole herb. TCM Effects: To clear heat and disinhibit damp, drain fire and resolve toxin. TCM Indications: Damp-heat diarrhea dysentery, heat strangury, red eyes with gall, gum swelling, swelling pain in throat, epidemic parotitis, erysipelas, eczema, heat toxin sores. Isolated compounds: 2303, 4122, 11851, 16439, 16537.
- T0907 *Berberis kawakamii* (Berberidaceae); TAI WAN XIAO BO; Taiwan Barberry. Used part: root or leaf. TCM Effects: To clear heat and dry damp, drain fire. TCM Indications: Damp-heat diarrhea, dysentery, mouth sore, toxin swelling of sores. Isolated compounds: 13374.
- T0908 *Berberis lambertii* (Berberidaceae); LAN BO TE XIAO BO; Lambert Barberry. Isolated compounds: 16439.
- T0909 *Berberis laurina* (Berberidaceae); YUE GUI XIAO BO; Laurel-like Barberry. Isolated compounds: 2302, 14756.
- T0910 *Berberis oblonga* (Berberidaceae); CHANG YUAN YE XIAO BO; Oblong-leaved Barberry. Isolated compounds: 16439.
- T0911 *Berberis orthobotrys* (Berberidaceae); ZHI ZONG ZHUANG HUA XU XIAO BO; Straight-raceme Barberry. Isolated compounds: 16439, 16537.
- T0912 *Berberis poiretii* (Berberidaceae); XI YE XIAO BO; Poiret Barberry. Used part: root, stem and bark. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Bacillary dysentery, damp-heat dysentery, diarrhea, jaundice, infection of upper respiratory tract, sore pharynx, urinary tract infection, cholecystitis, leukopenic complications of carcinoma, eczema, sores, mouth sore,

- red eyes. Isolated compounds: 11851, 16555.
- T0913 *Berberis potaninii* SHAO CHI XIAO BO; Potanin Barberry. Isolated compounds: 2300, 2303, 11851, 16555.
- T0914 *Berberis* sp. (Berberidaceae). Isolated compounds: 3142, 7821.
- T0915 *Berberis* spp. (Berberidaceae). Isolated compounds: 16439, 16555.
- T0916 *Berberis thunbergii* (Berberidaceae); RI BEN XIAO BO; Japanese Barberry. Used part: root, root cortex, stem-leaf. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Damp-heat diarrhea dysentery, stomach heat pain, red eyes with gall, mouth sore, swelling pain in throat, acute eczema, scalds. Isolated compounds: 2300, 2303, 3934, 11736, 11851, 13374, 16439, 16555.
- T0917 *Berberis tschonoskiana* (Berberidaceae); HUANG XIAO BO; Yellow Barberry. Isolated compounds: 15881, 15885, 16439.
- T0918 *Berberis valdiviana* (Berberidaceae); WA SHI XIAO BO; Valdiv Barberry. Isolated compounds: 2304, 4353, 16537.
- T0919 *Berberis vulgaris* (Berberidaceae); OU ZHOU XIAO BO; European Barberry. Isolated compounds: 2300, 2304, 16439.
- T0920 *Berberis wilsonae* (Berberidaceae); JIN HUA XIAO BO; Wilson Barberry. Used part: root. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Bacillary dysentery, damp-heat diarrhea dysentery, infection of upper respiratory tract, lung heat cough, urinary tract infection, cholecystitis, leukopenic complications of carcinoma, jaundice, red eyes with gall, infant mouth sore, heat toxin swollen welling abscess. Isolated compounds: 2303.
- T0921 *Berberis zycium* (Berberidaceae); GOU QI XIAO BO; Medlar Barberry\*. Isolated compounds: 7327, 18207.
- T0922 *Berchemia polyphylla* var. *leioclada* (Rhamnaceae); GUANG ZHI GOU ER CHA; Smoothbranched Supplejack. Used part: stem vine or root. TCM Effects: To resolve toxin and disperse swelling, stanch bleeding and settle pain, dispel wind and eliminate damp. TCM Indications: Welling abscess and flat abscess with clove sores, cough and hemoptysis, bleeding of digestive tract, knocks and falls, scalds, wind-damp bone pain, wind-fire toothache. Isolated compounds: 19087.
- T0923 *Bergenia crassifolia* (Saxifragaceae); HOU YE YAN BAI CAI; Thicketleaf Bergenia. Used part: whole herb. TCM Effects: To supplement vacuity and stanch bleeding, relieve cough and settle asthma. TCM Indications: Dizziness, cough, asthma, blood ejection, hemoptysis. Isolated compounds: 1618, 2312.
- T0924 *Bergenia purpurascens* (Saxifragaceae); YAN BAI CAI; Purple Bergenia. Used part: whole herb. TCM Effects: To enrich and supplement, check vomiting and stanch bleeding. TCM Indications: Vacuity with dizziness, taxation damage cough, blood ejection, hemoptysis, strangury-turbidity, vaginal discharge, toxin swelling. Isolated compounds: 2312, 17884.
- T0925 *Berlandiera pumila* AI SHENG BO LAN DI. Isolated compounds: 18198.
- T0926 *Berneuxia tibetica* (Diapensiaceae); YAN JIN CAI; Tibet Berneuxine. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, relieve cough and calm asthma, quicken blood and free network vessels. TCM Indications: Wind-cold common cold, asthma, cough, knocks and falls. Isolated compounds: 2221, 2313, 2314, 2315.
- T0927 *Beta* sp. (Chenopodiaceae). Isolated compounds: 22336.
- T0928 *Beta vulgaris* (Chenopodiaceae); TIAN CAI; Common Beet. Isolated compounds: 2057, 2317, 2318, 2319, 2973, 7768, 8784, 11082, 13439, 16050, 17770, 19459, 20446, 22623, 22624.
- T0929 *Betonica officinalis* (Lamiaceae); YAO SHUI SU; Medicinal Betonica. Isolated compounds: 2325, 11327.
- T0930 *Betula alba* (Betulaceae). Isolated compounds: 2329.
- T0931 *Betula ermanii* (Betulaceae); YUE HUA; Ermans Birch. Used part: bark. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling toxin of welling abscess and sore. Isolated compounds: 2330, 12045, 14157.
- T0932 *Betula luminifera* (Betulaceae); LIANG YE HUA PI; Shingleleaf Birch Bark. Used part: bark. TCM Effects: To dispel damp and dissipate cold, disperse stagnation and harmonize center, resolve toxin. TCM Indications: Common cold, wind-damp impediment pain, food accumulation distention and fullness, short voidings of reddish urine, mammary welling abscess, sore toxin, wind papules. Isolated compounds: 2336, 2337, 3318.
- T0933 *Betula platyphylla* (Betulaceae); HONG HUA PI; Japanese White Birch Bark. Used part: bark. TCM Effects: See *Betula platyphylla*. TCM Indications: See *Betula platyphylla*. Isolated compounds: 266, 2326, 2327, 2328, 17547.
- T0935 *Betula platyphylla* var. *japonica* (Betulaceae); HUA MU PI; Asian White Birch Bark. Equivalent plant: *Betula platyphylla* var. *japonica*. Used part: bark. TCM Effects: To clear heat and disinherit damp, relieve cough and dispel phlegm, resolve toxin and disperse swelling. TCM Indications: Pneumonia, dysentery, diarrhea, jaundice, nephritis, urinary tract infection, chronic trachitis, acute tonsillitis, periodontitis, acute mastitis, swollen boil, itchy papules, scalds. Isolated compounds: 1379, 2331, 10967, 16532, 17547.
- T0934 *Betula pubescens* (Betulaceae); MAO ZHI HUA; Pubescent Birch\*. Isolated compounds: 17876, 17884.
- T0936 *Betula* sp. (Betulaceae). Isolated compounds: 9021, 18794, 19174, 22920.
- T0937 *Betula* spp. (Betulaceae). Isolated compounds: 10887, 17876, 17884, 19312.
- T0938 *Bidens bipinnata* (Asteraceae); GUI ZHEN CAO; Beggarticks. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp, quicken blood and disperse swelling. TCM Indications: Swelling pain in throat, dysentery, diarrhea, jaundice, intestinal welling abscess, swelling toxin of clove sore, snake or insect bites, wind-damp impediment pain, knocks and falls. Isolated compounds: 2358, 2362, 9381, 11573, 19122, 21118, 21608, 21609.
- T0939 *Bidens parviflora* (Asteraceae); XIAO HUA GUI ZHEN; Smallflower Beggarticks. Isolated compounds: 2359, 2360, 2361, 2362, 4158, 4159, 5155, 6351, 20447.
- T0940 *Bidens* sp. (Asteraceae). Isolated compounds: 16024.
- T0941 *Bidens tripartita* (Asteraceae); LANG PA CAO; Bur Beggarticks. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp, free menstruation. TCM Indications: Lung heat cough, hemoptysis, swelling pain in throat, red and white dysentery, jaundice, menstrual disorder, amenorrhea, child *gan* accumulation, scrofula, eczema, lichen sore, poisonous snake bite. Isolated compounds: 663, 1476, 11573, 13137, 18317.

- T0942 *Biebersteinia heterostemon* (Geraniaceae); XUN DAO NIU; Heterostemonous Biebersteinia. Used part: fruit. TCM Effects: To clear heat and settle fright, move *qi* and relieve pain. TCM Indications: Warm heat disease with fever, common cold with fever, infant ardent fever convulsion, abdominal distention and pain, hemorrhoids. Isolated compounds: 14184, 22195.
- T0943 *Bifurcaria bifurcata* (Cystoseiraceae); SHUANG CHA ZAO; Brown Alga *Bifurcaria bifurcata*. Isolated compounds: 4920, 7086, 10142, 10143, 10144, 10145, 10146, 10758, 16736.  
*Biota orientalis* = *Thuja orientalis*
- T0944 *Biota orientalis* [Syn. *Thuja orientalis*; *Platyclusus orientalis*] (Cupressaceae); BAI ZI REN; Chinese Arborvitae Kernel\*. Used part: kernel. TCM Effects: To nourish heart and quiet spirit, constrain sweat, moisten intestines and free stool. TCM Indications: Fright palpitation and fearful throbbing, sleepless and amnesia, night sweating, intestinal dry and constipation. Isolated compounds: 2488, 2489, 11597, 14070, 17422, 22039.
- T0945 *Bischofia javanica* [Syn. *Bischofia trifoliata*] (Euphorbiaceae); QIU FENG MU; Javan Bishopwood. Used part: root, bark. TCM Effects: To dispel wind and eliminate damp, transform stasis and disperse accumulation. TCM Indications: Wind-damp bone pain (root cortex branchlet-leaf), depression of *qi* and blood, abscess, sore (leaf), red and white dysentery (root). Isolated compounds: 1113, 6918, 6919, 7950, 7952, 14158.
- T0946 *Bituminaria morisiana* (Fabaceae). Isolated compounds: 2365, 2495, 4190, 4604, 5851, 5973, 7295, 10047, 17830.
- T0947 *Bixa orellana* (Bixaceae); HONG MU; Anatto tree. Used part: root cortex, leaf, sarcocarp and seed. TCM Effects: To abate fever, interrupt malaria, resolve toxin. TCM Indications: Fever, malaria, sore pharynx, jaundice, dysentery, erysipelas, poisonous snake bite, sores. Isolated compounds: 2496, 8317, 8318, 8319, 15720.
- T0948 *Blainvillea acmella* [Syn. *Verbesina acmella*; *Eclipta latifolia*; *Blainvillea latifolia*] (Asteraceae); YU LIN CAI; Broadleaf *Blainvillea*\*. Used part: whole herb. TCM Effects: To course wind and clear heat, relieve cough. TCM Indications: Common cold with fever, lung vacuity consumption cough, hemoptysis, sprain and contusion. Isolated compounds: 19046.
- T0949 *Blasia pusilla* (Blasiaceae); HU BAO TAI; *Blasia*\*. Isolated compounds: 18225.
- T0950 *Blatta orientalis* (Blattidae); ZHANG LANG; Cockroach. Used part: body. TCM Effects: To dissipate stasis, transform accumulation, resolve toxin. TCM Indications: Child *gan* accumulation, concretion conglomeration accumulation and gathering, throat impediment, nipple moth, swelling toxin of welling abscess and sore, snake or insect bites. Isolated compounds: 7816.
- T0951 *Blechnum minus* (Blechnaceae); XIAO WU MAO JUE; Minus Hard-fern\*. Isolated compounds: 6678.
- T0952 *Blechnum orientale* (Blechnaceae); WU MAO JUE; Oriental *Blechnum* Frond. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding, expel worms. TCM Indications: Common cold, headache, parotitis, swollen welling abscess, knocks and falls, nosebleed(epistaxis), blood ejection, flooding, vaginal discharge, intestinal parasitic disease. Isolated compounds: 2596, 3551.
- T0953 *Blepharostoma trichophyllum* (Blepharostomataceae); JIE MAO TAI; *Blepharostoma*\*. Isolated compounds: 2503, 5943, 12405, 12406, 12407, 12408.
- T0954 *Bletilla formosana* (Orchidaceae); LAN YU BAI JI; Taiwan *Bletilla*\*. Isolated compounds: 1476, 2456, 2460, 2461, 2509, 5763, 5771, 8237, 9837, 9838, 9845, 9846, 9848, 11648, 12020, 12062, 13912, 13980, 17968, 21690.
- T0955 *Bletilla striata* (Orchidaceae); BAI JI; Common *Bletilla*. Used part: rhizome. TCM Effects: To promote astringency and stanch bleeding, disperse swelling and engender flesh. TCM Indications: Hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, bleeding due to external injury, swelling toxin of welling abscess and sore, burns and scalds, cracking of hands and feet, splitting of anus. Isolated compounds: 2165, 2457, 2460, 2461, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 9847, 9848, 10176, 14154, 21900, 21910, 21920.
- T0956 *Blighia sapida* (Sapindaceae); XI FEI LI ZHI GUO; Akee. Isolated compounds: 8776, 10898.
- T0957 *Blumea balsamifera* (Asteraceae); AI NA XIANG; Balsamiferous *Blumea*. Used part: Branchlet-leaf. TCM Effects: To dispel wind and eliminate damp, warm center and check diarrhea, quicken blood and resolve toxin. TCM Indications: Wind-cold common cold, head wind headache, wind-damp impediment pain, cold-damp diarrhea and dysentery, taeniasis, poisonous snake bite, painful wound from knocks and falls, lichen sore. Isolated compounds: 2518, 2519, 2520, 2521, 2550, 2555, 5763, 17968, 22778.
- T0958 *Blumea glomerata* (Asteraceae); TUAN JI AI NA XIANG; Glomerate *Blumea*\*. Isolated compounds: 2021, 4283, 6338, 9406, 9509, 10595, 14417, 14737, 15635, 16873, 19174.
- T0959 *Blumea lacera* (Asteraceae); HONG TOU CAO; Malay *Blumea*. Used part: aerial parts. TCM Effects: To clear heat and drain fire, resolve toxin and disperse swelling. TCM Indications: Lung heat cough, swelling pain in throat, mouth and tongue sores, stomach fire toothache, epidemic parotitis, swelling toxin of welling abscess and sore. Isolated compounds: 3208, 3987, 21622.
- T0960 *Bocconia frutescens* (Papaveraceae); GUAN ZHUANG MEI YING SU. Isolated compounds: 16628.
- T0961 *Bocconia* spp. (Papaveraceae). Isolated compounds: 3498.
- T0962 *Boehmeria platanifolia* [Syn. *Boehmeria tricuspis*] (Urticaceae); CHI MA; Tricuspidate Falsenettle. Used part: root or tender stem-leaf. TCM Effects: To promote astringency and stanch bleeding, clear heat and resolve toxin. TCM Indications: Hemoptysis, spontaneous external bleeding, hematochezia, hematuria, flooding and spotting, knocks and falls, innominate toxin swelling, sores. Isolated compounds: 2039, 2527, 2530, 6776.
- T0963 *Boehmeria siamensis* (Urticaceae); SHU XU ZHU MA; Siam Falsenettle. Used part: whole herb. TCM Effects: To clear heat and remove damp, dispel wind and relieve itch, quicken blood and regulate menstruation. TCM Indications: Abdominal pain, diarrhea, wind-damp impediment pain, eczema, itchy skin, menstrual block, lump glomus. Isolated compounds: 2528, 2529.
- T0964 *Boenninghausenia albiflora* (Rutaceae); YAN JIAO CAO; White

- Chinaure. Used part: whole herb. TCM Effects: To clear heat and cool blood, soothe sinews and quicken blood, eliminate inflammation. TCM Indications: Common cold, pharyngolaryngitis, hepatitis, hemoptysis, spontaneous external bleeding, lumbago, knocks and falls, subcutaneous static blood. Isolated compounds: 858, 859, 860, 1189, 2309, 2342, 2531, 2780, 4919, 5445, 6300, 6312, 9420, 10194, 10196, 11865, 11978, 13152, 13607, 14845, 15104, 15146, 15646, 19085, 21906, 22781.
- T0965 *Boenninghausenia albiflora* var. *japonica* (Rutaceae); RI BEN BAI SONG FENG CAO; Japanese White Chinaure\*. Isolated compounds: 5445, 10194, 10196.
- T0966 *Boenninghausenia japonica* (Rutaceae); RI BEN CHOU JIE CAO; Japanese Chinaure\*. Isolated compounds: 13607, 19085.
- T0967 *Boenninghausenia sessilicarpa* (Rutaceae); SHI JIAO CAO; Sessile-fruit Chinaure. Used part: whole herb. TCM Effects: To course wind and resolve exterior, clear heat and resolve toxin, move *qi* and quicken blood. TCM Indications: Common cold, tonsillitis, bronchitis, pneumonia, nephropylitis, stomachache and abdominal distention, thromboangiitis obliterans, lumbago, knocks and falls. Isolated compounds: 2342, 2531, 6300, 11865, 19804.
- T0968 *Boenninghausenia* sp. (Rutaceae). Isolated compounds: 3457.
- T0969 *Boerhavia diffusa* (Nyctaginaceae); HUANG XI XIN; Diffuse Boerhavia. Used part: root. TCM Effects: To quicken blood and dissipate stasis, strengthen sinews and bones, regulate menstruation, disperse *gan*. TCM Indications: Knocks and falls, pain in sinews and bones, menstrual disorder [= menoxenia], child *gan* accumulation. Isolated compounds: 2532, 2533, 2534, 2535, 2536, 2537.
- T0970 *Boesenbergia pandurata* (Zingiberaceae); QIN ZHUANG AO CHUN JIANG; Lyrate Boesenbergia\*. Isolated compounds: 16867.
- T0971 *Bolbostemma paniculatum* (Cucurbitaceae); JIA BEI MU; Paniculate Bolbostemma. Used part: bulb. TCM Effects: To clear heat and resolve phlegm, dissipate binds and draw out toxin. TCM Indications: Mammary welling abscess, scrofula with phlegm node, toxin swelling of sores, wart, snake or insect bites. Isolated compounds: 17578, 17579, 17580, 17581, 17582, 20358, 20359, 21089, 21698, 22072, 22073, 22074, 22075, 22076.  
*Boletus cinnabarinus* = *Trametes cinnabarina*  
*Boletus fomentarius* = *Fomes fomentarius*
- T0972 *Bolusanthus speciosus* (Fabaceae); Tree Wisteria. Isolated compounds: 2539, 3004, 5235, 7883, 8136, 8278, 11434, 13107, 13637, 16209, 16545, 22667.
- T0973 *Bombax malabaricum* [Syn. *Gossampinus malabarica*] (Bombacaceae); MU MIAN HUA; Common Bombax Flower. Used part: flower. TCM Effects: To clear heat, disinhibit damp, resolve toxin, stanch bleeding. TCM Indications: Diarrhea, dysentery, hemoptysis, blood ejection, flooding, incised wound and bleeding, sore toxin, eczema. Isolated compounds: 7441, 8078, 9869, 11453, 13481, 15069.
- T0974 *Bombyx batryticatus* (Bombycidae); JIANG CAN. Isolated compounds: 13995.
- T0975 *Bombyx mori* (Bombycidae); BAI JIANG CAN; Silkworm Larva. Used part: dried larva. TCM Effects: To dispel wind and resolve tetany, transform phlegm and dissipate binds, resolve toxin and disinhibit throat. TCM Indications: Epilepsy, fright wind and convulsion, swelling pain in throat, acute infection of upper respiratory tract, epidemic parotitis, diabetes mellitus, temporomandibular lymphnoiditis, facial paralysis, itchy skin. Isolated compounds: 2161, 2162, 2188, 2189, 3585, 6538, 6678, 6723, 6724, 7250, 13098, 15952, 16559, 20279, 20932.
- T0976 *Bombyx mori* (Bombycidae); CAN JIAN; Silk Cocoon. Used part: silk covering spun by larva. TCM Effects: To stanch bleeding, allay thirst, resolve toxin and cure sores. TCM Indications: Hematochezia, hematuria, flooding, diabetes mellitus, stomach reflux, *gan* disease, swollen welling abscess. Isolated compounds: 13098, 18341, 18405, 22060.
- T0977 *Bombyx mori* (Bombycidae); YUAN CAN E; Silkworm King. Used part: silkworm king. TCM Effects: To supplement kidney and invigorate *yang*, rough essence, stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Impotence and emission, white turbidity, blood strangury, incised wound and bleeding, swelling pain in throat, mouth and tongue sores, swelling toxin of welling abscess and sore, frostbite, snake bite. Isolated compounds: 6678, 15528.
- T0978 *Bombyx mori* (Bombycidae); YUAN CAN SHA; Silkworm Feculae. Used part: silkworm dried feces. TCM Effects: To dispel wind and eliminate damp, harmonize stomach and transform turbidity, quicken blood and free menstruation. TCM Indications: Wind-damp impediment pain, paralysis, wind papule itching, vomiting and diarrhea with cramp, amenorrhea, flooding and spotting. Isolated compounds: 7250, 11031, 13098, 17140, 17141, 17265, 19987.
- T0979 *Bombyx mori* (Bombycidae); YUAN CAN ZI; Silkworm Egg. Used part: silkworm egg. TCM Effects: To dispel wind and clear heat, check tetany. TCM Indications: Heat blood strangury, difficult delivery, tetanus. Isolated compounds: 3893, 3894, 6632, 7814, 7816, 10294, 13824, 21504, 21505, 21506, 22251, 22769.
- T0980 *Bonamia spectabilis* (Convolvulaceae). Isolated compounds: 2541, 2542, 2543, 2544, 15344, 15345.
- T0981 *Borago officinalis* (Boraginaceae); LIU LI JU; Common Borage. Isolated compounds: 5283, 13235, 21319.
- T0982 *Bos taurus domesticus* (Bovidae); HUANG MING JIAO; Oxhide Gelatin. Used part: gelatin made from hide of ox. TCM Effects: To enrich *yin* and moisten dryness, nourish blood and stanch bleeding, quicken blood and disperse swelling, resolve toxin. TCM Indications: Vacuity taxation lung wilting, cough and hemoptysis, blood ejection, spontaneous external bleeding, flooding and spotting, diarrhea with hematochezia, knocks and falls, sore toxin of welling abscess and flat abscess, scalds. Isolated compounds: 10660.
- T0983 *Bos taurus domesticus* (Bovidae); XIA TIAN GAO; Concentrated Beef Extract. Used part: beef extract. TCM Effects: To fortify spleen and stomach, supplement *qi* and blood, moisten dryness and transform phlegm. TCM Indications: Vacuity taxation with marked emaciation, wind stroke with hemiplegia, phlegm-rheum and glomus accumulation. Isolated compounds: 1350, 3205, 3205, 4221, 10913, 22246, 22251, 22756.
- T0984 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU DAN; Ox Gall. Used part: gall. TCM Effects: To clear liver and brighten eyes, disinhibit gallbladder and free intestines, resolve toxin and disperse swelling. TCM Indications: Wind-heat red eye, jaundice, cough with



- profuse phlegm, infant fright wind, swollen welling abscess, constipation, hemorrhoids. Isolated compounds: 8823, 22246.
- T0985 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU FEI; Ox Lung. Used part: lung. TCM Effects: To boost lung, relieve cough and asthma. TCM Indications: Lung vacuity, cough and counterflow. Isolated compounds: 14472.
- T0986 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU GAN; Ox Liver. Used part: liver. TCM Effects: To nourish blood, supplement liver, brighten eyes. TCM Indications: Vacuity taxation with marked emaciation, anemia with yellow complexion, clear-eye blindness, night blindness, fright epilepsy. Isolated compounds: 6721.
- T0987 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU HUANG; Cow-bezoar (Ox-gallstone). Used part: gallstone. TCM Effects: To clear heart and cool liver, clear heat and resolve toxin, lower blood pressure. TCM Indications: Ardent fever, coma, fright epilepsy, convulsion, febrile diseases clouded spirit, wind stroke with orifice block, acute infant fright wind, swelling pain in throat, mouth and tongue sores, welling abscess and flat abscess with clove sore. Isolated compounds: 2374, 2375, 3511, 3585, 3588, 5161, 7250, 8823, 12923, 20732.
- T0988 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU NAO; Ox Brain. Used part: brain. TCM Effects: To supplement brain and dispel wind, allay thirst, disperse glomus. TCM Indications: Head wind dizziness, brain leak, diabetes mellitus, glomus *qi*. Isolated compounds: 8753, 8770, 8771, 8773, 8774, 8775, 8781, 8783, 16478, 22353.
- T0989 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU RU; Cow Milk. Used part: milk. TCM Effects: To supplement vacuity detriment, boost lung and stomach, nourish blood, engender liquid and moisten dryness, resolve toxin. TCM Indications: Vacuity taxation detriment, stomach reflux and dysphagia-occlusion, diabetes mellitus, anemia and constipation, *qi* vacuity and dysentery, jaundice. Isolated compounds: 7853, 11083, 11084, 11085, 15528, 16214, 18261.
- T0990 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU SHEN; Ox Kidney. Used part: kidney. TCM Effects: To supplement kidney and boost essence, strengthen lumbus and knees, relieve pain due to impediment. TCM Indications: Vacuity taxation with kidney depletion, impotence, limp aching lumbus and knees, damp impediment pain. Isolated compounds: 653, 880, 4096, 4097, 4887, 5163, 9937, 9986, 15708.
- T0991 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU XUE; Ox Blood. Used part: blood. TCM Effects: To fortify spleen and supplement center, nourish blood and quicken blood. TCM Indications: Spleen vacuity and marked emaciation, amenorrhea, hematochezia, blood dysentery, incised wound. Isolated compounds: 4221, 4223, 9338, 17984, 22246, 22251.
- T0992 *Bos taurus domesticus*; *Bubalus bubalis* (Bovidae); NIU YE; Ox Thyroid. Used part: thyroid. TCM Effects: To disinhibit throat and disperse goiter. TCM Indications: Throat impediment, *qi* goiter. Isolated compounds: 6186, 6187, 21175, 21867, 21868.
- T0993 *Boschniakia rossica* (Orobanchaceae); CAO CONG RONG; Russian Boschniakia. Used part: whole herb. TCM Effects: To supplement kidney and invigorate *yang*, moisten intestines and free stool, stanch bleeding. TCM Indications: Kidney vacuity impotence, emission, cold pain in lumbus and knees, dribbling urination, hematuria, infertility due to uterus cold, vaginal discharge, flooding and spotting, intestinal dry and constipation. Isolated compounds: 2565, 2566, 4145, 4680, 10470, 18927, 18928, 18929, 21688.
- T0994 *Boswellia carterii* (Anacardiaceae); RU XIANG; Olibanum. Used part: balsam. TCM Effects: To move *qi* and quicken blood, free menstruation and relieve pain, disperse swelling and engender flesh. TCM Indications: Pain in heart and abdomen, wind-damp impediment pain, amenorrhea, dysmenorrhea, stasis pain from knocks and falls, swelling toxin of welling abscess and flat abscess, intestinal welling abscess, enduring sores. Isolated compounds: 440, 444, 2567, 2568, 6482, 10341, 12197, 12843, 13091, 13772, 14112, 15220, 15706, 17054, 21409, 21970.
- T0995 *Boswellia ovalifoliolata* (Anacardiaceae); TUO YUAN YE RU XIANG SHU; Ellipticleaf Olibanum\*. Isolated compounds: 99, 16275, 16276.
- T0996 *Botryococcus braunii* (Botryococcaceae); CONG LI ZAO. Isolated compounds: 13201, 13202, 13203, 13204, 13205, 13206, 13207, 13208, 13209, 13210, 13211.
- T0997 *Botryodiplodia theobromae* tropical fungus *Botryodiplodia theobromae*. Isolated compounds: 10269.
- T0998 *Bouchardatia neurococca* (Rutaceae); Union Nut. Isolated compounds: 2569, 6112, 11769, 22381.
- T0999 *Bougainvillea glabra* (Nyctaginaceae); GUANG YE ZI HUA; Naked Leafyflower. Used part: flower. TCM Effects: To quicken blood and regulate menstruation, transform damp and check discharge. TCM Indications: Blood stasis and menstrual block, menstrual disorder, red and white vaginal discharge. Isolated compounds: 2321, 11251.
- T1000 *Bowdichia* spp. Isolated compounds: 3004.
- T1001 *Brachystemma calycinum* (Caryophyllaceae); DUAN BAN HUA; Shortpetalflower. Used part: root or whole herb. TCM Effects: To quicken blood and transform stasis, free strangury and transform turbid, resolve toxin and disperse swelling. TCM Indications: Blood stasis and dysmenorrhea, menstrual block, aberratio mensium, concretion and conglomeration with mass, heat strangury, blood strangury, white turbidity, leukorrhea, impediment pain into network vessels, hypertonicity of sinews and vessels, knocks and falls, swelling toxin of welling abscess and sore, nipple moth, diphtheria. Isolated compounds: 2578, 2579, 2580, 2581, 2582, 2583.
- T1002 *Brackenridgea zanguebarica* (Ochnaceae); SANG DAO BU SHI MU. Isolated compounds: 2985, 4045, 5551, 15916.
- T1003 *Brandisia hancei* (Scrophulariaceae); LAI JIANG TENG; Hance Brandisia. Used part: whole herb. TCM Effects: To dispel wind and disinhibit damp, clear heat and resolve toxin. TCM Indications: Wind-damp pain in sinew and bone, edema, diarrhea, jaundice, taxation damage and blood ejection, medullitis, periostitis, sore and boil. Isolated compounds: 6073.
- T1004 *Brasenia schreberi* (Nymphaeaceae); CHUN; Common Watershield. Used part: stem-leaf. TCM Effects: To disinhibit water and disperse edema, clear heat and resolve toxin. TCM Indications: Damp-heat dysentery, jaundice, edema, inhibited urination, heat toxin swollen welling abscess. Isolated compounds: 8078, 9568, 22556.
- Brassica alba* = *Sinapis alba*

- T1005 *Brassica campestris* [Syn. *Brassica campestris* var. *oleifera*] (Brassicaceae); YUN TAI ZI; Bird Rape. Used part: seed. TCM Effects: To quicken blood and transform stasis, dissipate binds and disperse swelling, moisten intestines and free stool. TCM Indications: Postpartum persistent flow of lochia, blood stasis and abdominal pain, dysmenorrhea, intestinal wind bleeding, blood dysentery, pain in joints due to rheumatism, swollen welling abscess, erysipelas, mammary welling abscess, constipation. Isolated compounds: 2596, 3040, 3585, 7291, 13861.
- T1006 *Brassica chinensis* (Brassicaceae); CHEN DONG CAI LU ZHI; Mature Winter-vegetable Spiced Juice. Used part: juice from whole herb. TCM Effects: To eliminate vexation and heat, engender liquid and allay thirst, clear lung and transform phlegm, free intestines and stomach. TCM Indications: Phlegm fire cough, swelling pain in throat. Isolated compounds: 4031.  
*Brassica hirta* = *Sinapis alba*
- T1007 *Brassica juncea* (Brassicaceae); JIE CAI; India Mustard. Used part: tender stem and leaf. TCM Effects: To disinhibit lung and transform phlegm, disperse swelling and dissipate binds. TCM Indications: Cold rheum cough, phlegm stagnation and *qi* counterflow, fullness and oppression in chest and diaphragm, sand strangury, stone strangury, gum swelling erosion, mammary welling abscess, swelling hemorrhoids, frostbite (kibe), lacquer sore. Isolated compounds: 2597, 8599, 9863, 10598, 17117.
- T1008 *Brassica juncea* (Brassicaceae); JIE ZI; India Mustard Seed. Used part: seed. TCM Effects: To warm center and dissipate cold, break phlegm and disinhibit orifices, free network vessels and disperse swelling. TCM Indications: Vomiting with stomach cold, pain in heart and abdomen, lung cold cough, impediment pain, throat impediment, flowing phlegm, knocks and falls. Isolated compounds: 949, 2294, 2782, 2798, 2799, 8599, 10232, 11625, 14539, 14762, 16888, 17117, 17125, 17903, 19912, 19917, 19935.
- T1009 *Brassica napus* (Brassicaceae); OW ZHOU YOU CAI; Rape. Isolated compounds: 2596, 2598, 2905, 3040, 6508, 6509, 6510, 8589, 12092, 12094, 12095, 12096, 13861, 15400, 18411, 22036, 22037.
- T1010 *Brassica napus* var. *napobrassica* (Brassicaceae); WU JING GAN LAN; Swede Seed. Isolated compounds: 8591, 8595, 8596, 14336.
- T1011 *Brassica napus* var. *napus* (Brassicaceae); YOU CAI ZI; Rapeseed\*. Isolated compounds: 17903.
- T1012 *Brassica nigra* (Brassicaceae); HEI JIE; Black Mustard. Isolated compounds: 8599.
- T1013 *Brassica oleracea* (Brassicaceae); YE JIE; Wild Cabbage. Isolated compounds: 19912, 21541.
- T1014 *Brassica oleracea* var. *botrytis* (Brassicaceae); HUA YE CAI; Cauliflower. Isolated compounds: 8591, 8598.
- T1015 *Brassica oleracea* var. *botrytis* subvar. *cauliflora* (Brassicaceae); JING HUA HUA YE CAI; Cauliflory Brassica\*. Isolated compounds: 15400.
- T1016 *Brassica oleracea* var. *botrytis* subvar. *cymosa* (Brassicaceae); JU SAN HUA YE CAI; Cymose Brassica\*. Isolated compounds: 8752, 15400.
- T1017 *Brassica oleracea* var. *capitata* (Brassicaceae); GAN LAN; Cabbage. Used part: leaf. TCM Effects: To clear heat and disinhibit damp, dissipate binds and relieve pain, boost kidney and supplement vacuity. TCM Indications: Damp-heat jaundice, pain from ulcer in digestive tract, stiffness in joints, vacuity detriment. Isolated compounds: 949, 2782, 3551, 8589, 8595, 8598, 8752, 9614, 11026, 14728, 14730, 17903, 22517, 22564.
- T1018 *Brassica oleracea* var. *gemmifera* (Brassicaceae); BAO ZI GAN LAN; Brussels Sprout. Isolated compounds: 8589, 8595, 8598, 8752, 15400.
- T1019 *Brassica oleracea* var. *gongyolodes* (Brassicaceae); PIE LAN; Kohl-rabi. Isolated compounds: 8598, 15400.
- T1020 *Brassica oleracea* var. *sabauda* (Brassicaceae); YU YI GAN LAN; Savoy Cabbage. Isolated compounds: 8598.
- T1021 *Brassica rapa* (Brassicaceae); WU QING; Turnip. Used part: root or leaf. TCM Effects: To disperse food and precipitate *qi*, resolve toxin and disperse swelling. TCM Indications: Indigestion of overnight food, cold pain in heart and abdomen, cough, swollen welling abscess and toxin of clove. Isolated compounds: 2596, 11655.
- T1022 *Brassica rutabaga* (Brassicaceae); RUI DIAN GAN LAN; Swedish Turnip. Isolated compounds: 13212.
- T1023 *Bredia tuberculata* (Melastomataceae); HONG MAO YE HAI TANG; Tuberculate Bredia. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and regulate menstruation. Isolated compounds: 15641, 15642.
- T1024 *Brenania brieyi*. Isolated compounds: 8065.
- T1025 *Bretschneidera sinensis* (Bretschneideraceae); BO LE SHU; Chinese Bretschneidera. Used part: bark. TCM Effects: To quicken blood and dispel wind. TCM Indications: Pain in sinews and bones. Isolated compounds: 17399.
- T1026 *Breynia officinalis* (Euphorbiaceae); YAO YONG HEI MIAN SHEN YE; Medicinal Breynia Leaf\*. Isolated compounds: 1618, 2329, 2607, 2608, 2609, 2610, 2611, 2612, 7695, 11682, 18877, 22126.
- T1027 *Brickellia arguta* var. *odontolepis* JIAN CHI BU LI KE ER CAO. Isolated compounds: 16726, 16729.
- T1028 *Bridelia retusa* (Euphorbiaceae); SI LI LAN KA TU MI SHU; Sri-Lankan Bridelia. Isolated compounds: 6390, 6391, 6392, 6393, 11322, 19777.
- T1029 *Brodiaea californica* (Liliaceae); Triplet Lily. Isolated compounds: 4295, 4300.
- T1030 *Brosimum acutifolium* (Moraceae); JIAN YE BAO SHI MU. Isolated compounds: 2626, 2627.
- T1031 *Broussonetia kazinoki* (Moraceae); XIAO GOU SHU; Kazinoki Papermulberry. Used part: whole herb or root, root cortex. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and disperse swelling. TCM Indications: Wind-damp impediment pain, diarrhea, dysentery, jaundice, edema, welling abscess and boil, knocks and falls. Isolated compounds: 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2652, 2653, 2654, 2655, 2656, 12188, 12189.
- T1032 *Broussonetia papyrifera* (Moraceae); GOU SHU; Common Papermulberry. Used part: branch. TCM Effects: To dispel wind, brighten eyes, disinhibit urine. TCM Indications: Wind papules, red eyes with gall, inhibited urination [=dysuria]. Isolated compounds: 51, 846, 1397, 1402, 1764, 2172, 2629, 2630, 2635, 2650, 2651, 4108, 5086, 5746, 5894, 6001, 6088, 6102, 6103, 7485, 8141, 8262, 8262,

- 10445, 10506, 11490, 12681, 13571, 14956, 14961, 14962, 14964, 15279, 18643, 20326, 21086, 21116, 21117, 21128, 21151.
- T1033 *Broussonetia papyrifera* (Simaroubaceae); GOU SHU BAI PI; Common Papermulberry Bast\*. Used part: endoderm bark. TCM Effects: To disinhibit water, stanch bleeding. TCM Indications: Inhibited urination [=dysuria], edema distention fullness, hematochezia, flooding and spotting [= metrorrhagia and metrostaxis]. Isolated compounds: 2629, 2630, 2631, 2632, 12186, 12187.
- T1034 *Broussonetia papyrifera* (Simaroubaceae); GOU SHU GEN; Common Papermulberry Root\*. Used part: tender root or root cortex. TCM Effects: To cool blood and dissipate stasis, clear heat and disinhibit damp. TCM Indications: Cough with blood ejection, flooding and spotting [= metrorrhagia and metrostaxis], edema, knocks and falls. Isolated compounds: 2633, 2634.
- T1035 *Broussonetia papyrifera* (Moraceae); GOU SHU GUO; Common Papermulberry Fruit. Used part: fruit. TCM Effects: To enrich *yin* and supplement kidney, clear liver and brighten eyes, fortify spleen and disinhibit water. TCM Indications: Limp aching lumbus and knees due to kidney vacuity, impotence, dim vision, eye screen, edema, scant urine. Isolated compounds: 2628, 2647, 2648, 2649, 17403.
- T1036 *Brucea amarissima* (Simaroubaceae); KU YA DAN ZI; Bitter Brucea\*. Isolated compounds: 2664, 2665, 2667, 11860, 11861, 11862, 11863.
- T1037 *Brucea antidysenterica* (Simaroubaceae); KANG LI YA DAN ZI; Antidysenteric Brucea\*. Isolated compounds: 2660, 2661, 2662, 22875.
- T1038 *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*] (Simaroubaceae); YA DAN ZI; Java Brucea. Used part: fruit. TCM Effects: To clear heat and dry damp, resolve toxin and kill worms. TCM Indications: Malaria, amebic dysentery, dysentery with pus and blood, tenesmus, corn and common wart. Isolated compounds: 748, 1424, 1441, 2616, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2684, 3829, 4680, 6193, 7398, 7824, 7931, 9486, 11427, 11852, 11853, 11854, 11855, 11856, 11857, 11858, 11859, 12891, 13143, 13286, 16066, 19692, 19693, 20280, 22857, 22858, 22859, 22860, 22861, 22862, 22863, 22864, 22865, 22866, 22867, 22868, 22869, 22870, 22871, 22872, 22873, 22874, 22875.
- T1039 *Bruguiera gymnorrhiza* (Rhizophoraceae); MU LAN<sup>(3)</sup>; Common Bruguiera. Used part: leaf. TCM Effects: To resolve toxin and interrupt malaria. TCM Indications: Malaria. Isolated compounds: 2680, 2681, 2682, 3548, 5929, 5933, 5937, 9864, 10277, 10281, 10559, 10625, 12171, 12177, 12180, 14304, 14305, 21757.
- T1040 *Bruguiera parviflora* (Rhizophoraceae); XIAO HUA MU LAN GUO; Smallflower Bruguiera Fruit\*. Isolated compounds: 2910, 2911, 4168, 6451, 13097, 13098.
- T1041 *Brunsvigia radulosa* (Amaryllidaceae); BU LANG WEI JI. Isolated compounds: 472, 1276, 1532.
- T1042 *Bryonia alba* (Cucurbitaceae); BAI XIE GEN; White Bryony. Isolated compounds: 4317, 4319, 4320, 4323, 4324, 4327.
- T1043 *Bryophyllum pinnatum* (Crassulaceae); LUO DI SHENG GEN; Air-plant. Used part: root or whole herb. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Blood ejection, bleeding due to external injury, knocks and falls, swollen welling abscess and clove sores, mammary welling abscess, mammary rock, erysipelas, ulcer, scalds, stomachache, pain in joints, swelling pain in throat, lung heat cough. Isolated compounds: 1110, 1113, 1935, 2688, 2689, 2690, 2691, 2692, 2693, 16028, 18408, 22223.
- T1044 *Bryum argenteum* (Bryaceae); ZHEN XIAN. Used part: plant body. TCM Effects: To clear heat and resolve toxin, stanch bleeding. TCM Indications: Bacillary dysentery, jaundice, nasosinusitis, swelling toxin of welling abscess and sore, burns and scalds, spontaneous external bleeding, coughing of blood. Isolated compounds: 11705.
- T1045 *Bubalus bubalis* (Bovidae); SHUI NIU JIAO; Buffalo Horn. Used part: horn. TCM Effects: To clear heat, resolve toxin, cool blood, settle fright. TCM Indications: Headache due to febrile disease, ardent fever with clouded spirit, macular eruption and papules, blood ejection, spontaneous external bleeding, stasis heat yellowing, infant fright wind, swelling pain in throat, mouth and tongue sores. Isolated compounds: 9067.
- T1046 *Buddleja davidii* (Loganiaceae); DA YE ZUI YU CAO; Orangeeye Butterflybush. Used part: branchlet-leaf, root cortex. TCM Effects: To dispel wind and dissipate cold, quicken blood and relieve pain, resolve toxin and kill worms. TCM Indications: Wind-cold cough, impediment pain, knocks and falls, swollen welling abscess, sore and boil, pudendal itch of women, leprosy, foot lichen. Isolated compounds: 2125, 2697, 3245, 11529, 11885, 12725, 17509.
- T1047 *Buddleja globosa* (Loganiaceae); QIU HUA ZUI YU CAO; Orange-ball-tree. Isolated compounds: 580, 14222.
- T1048 *Buddleja officinalis* (Loganiaceae); MI MENG HUA; Pale Butterflybush. Used part: flower. TCM Effects: To clear heat and nourish liver, eliminate screen and brighten eyes. TCM Indications: Red eyes with gall, delacrimation and photophobia, liver vacuity dim vision, dim vision, malaria. Isolated compounds: 56, 61, 580, 1476, 13137, 13887, 14866, 14867, 15347.
- T1049 *Bufo bufo gargarizans*; *Bufo melanostictus* (Bufonidae); CHAN CHU; Toad. Used part: whole body. TCM Effects: To resolve toxin and dissipate binds, disperse accumulation and disinhibit water, kill worms and disperse *gan*. TCM Indications: Welling abscess and flat abscess, clove sore, effusion of back, scrofula, malign sore, concretion and accumulation, ascites, edema, child *gan* accumulation, tetanus, chronic cough and asthma. Isolated compounds: 2715, 2716, 2726, 2728, 3729, 9329, 18637.
- T1050 *Bufo bufo gargarizans*; *Bufo melanostictus* (Bufonidae); CHAN CHU DAN; Toad Gall. Used part: gall. TCM Effects: To suppress cough and dispel phlegm, resolve toxin and dissipate binds. TCM Indications: Trachitis, child aphonia, scrofula in early stage, clove sore of nose. Isolated compounds: 2719, 7730, 16841, 21138, 21692, 21693, 21696, 21754.
- T1051 *Bufo bufo gargarizans*; *Bufo melanostictus* (Bufonidae); CHAN PI; Toad Skin. Used part: skin. TCM Effects: To clear heat and resolve toxin, disinhibit water and disperse distention. TCM Indications: Welling abscess and flat abscess, toxin swelling, scrofula, eczema, *gan* accumulation, chronic trachitis. Isolated compounds: 2724, 8122, 18637, 21841.
- T1052 *Bufo bufo gargarizans*; *Bufo melanostictus* (Bufonidae); CHAN SU;

- Toad Skin Secretion Cake. Used part: dried secretion of skin glands. TCM Effects: To resolve toxin, relieve pain, open orifices and arouse spirit. TCM Indications: Welling abscess and flat abscess with clove sores, swelling pain in throat, summerheat stroke with vomiting and diarrhea, abdominal pain and clouded spirit, local anesthesia. Isolated compounds: 653, 1048, 1664, 2714, 2715, 2716, 2717, 2718, 2721, 2722, 2723, 2726, 2727, 3040, 3585, 3729, 3730, 3731, 3732, 3733, 4884, 5237, 5238, 5239, 7190, 7191, 7192, 7193, 7912, 8121, 8123, 9859, 9861, 9904, 9917, 9918, 9993, 10672, 10673, 13566, 14981, 16296, 16312, 16329, 18636, 18637, 18638, 19760, 19983, 20439, 20911, 22058.
- T1053 *Bulbophyllum odoratissimum* [Syn. *Stelis odoratissimum*] (Orchidaceae); MI HUA SHI DOU LAN; Flowery Stonebean-orchis. Used part: whole herb. TCM Effects: To moisten lung and transform phlegm, free network vessels and relieve pain. TCM Indications: Tuberculosis and hemoptysis, chronic trachitis, chronic pharyngitis, mounting *qi* pain, menstrual disorder, wind-damp impediment pain, knocks and falls. Isolated compounds: 17399.
- T1054 *Bulbophyllum vaginatum* (Orchidaceae); QIAO SHI DOU LAN; Vaginate Stonebean-orchis\*. Isolated compounds: 2398, 10504, 13911, 13913, 14050, 14051.
- T1055 *Bupleurum angustissimum* (Apiaceae); XIAN YE CHAI HU; Linearleaf Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 15218, 19142, 19148.
- T1056 *Bupleurum aureum* (Apiaceae); JIN HUANG CHAI HU; Goldenyellow Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 20168.
- T1057 *Bupleurum bicaule* ZHUI YE CHAI HU; Acicular Thorowax. Isolated compounds: 19142, 19148.
- T1058 *Bupleurum chaishoui* (Apiaceae); CHAI SHOU; Chaishou Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 15705, 16893.
- T1059 *Bupleurum chinense* (Apiaceae); CHAI HU; Chinese Thorowax. Equivalent plant: *Bupleurum scorzoniferifolium*, *Bupleurum smithii* var. *parvifolium*, *Bupleurum aureum*, *Bupleurum longiradiatum*, *Bupleurum marginatum*, *Bupleurum marginatum* var. *stenophyllum*, *Bupleurum angustissimum*, *Bupleurum chaishoui*, *Bupleurum wenchuanense*, *Bupleurum sibiricum*, *Bupleurum yinchowense*. Used part: root. TCM Effects: To harmonize exterior and interior, soothe liver and upbear *yang*. TCM Indications: Common cold, influenza, malaria, acute pancreatitis, pleuritis, neuritis, gastritis, acute cholecystitis, hepatitis, fever due to external contraction, keratitis, cold-heat in turn, liver depression and rib-side pain, mammary distention, dizziness and headache, menstrual disorder, prolapse of rectum due to *qi* vacuity fall, prolapse of uterus, gastroptosis. Isolated compounds: 645, 1191, 3139, 3140, 3237, 4305, 6795, 7521, 8312, 9021, 9402, 9415, 9486, 9669, 11642, 12018, 12800, 12843, 12849, 12893, 12955, 12969, 12980, 14275, 15146, 15218, 15221, 15684, 15694, 15705, 15971, 15982, 16884, 17021, 17022, 17089, 18190, 19130, 19131, 19133, 19134, 19135, 19142, 19147, 19148, 19157, 19158, 19161, 19162, 19164, 19165, 19166, 20168, 20280, 20369, 20370, 20995, 21139, 21360, 21610, 22217, 22337.
- T1060 *Bupleurum falcatum* (Apiaceae); ZI HU; Sickle-leaved Hare's-ear. Isolated compounds: 502, 2753, 2754, 2755, 2756, 10685, 10686, 10687, 11584, 13448, 13449, 17081, 17082, 19132, 19142, 19143, 19144, 19145, 19148, 19149, 20169, 21139.
- T1061 *Bupleurum fruticosum* (Apiaceae); MU CHAI HU; Fruticose Thorowax\*. Isolated compounds: 19540.
- T1062 *Bupleurum fruticosum* (Apiaceae); GUAN MU CHAI HU; Shrub Thorowax (Shrubby Hare's-ear). Isolated compounds: 214, 6288, 21142, 21728, 21784, 21930.
- T1063 *Bupleurum gibraltarium* (Apiaceae); ZHI BU LUO TUO CAI HU; Gibraltar Thorowax\*. Isolated compounds: 21141, 21728.
- T1064 *Bupleurum kunmingense* (Apiaceae); KUN MING CHAI HU; Kunming Thorowax\*. Isolated compounds: 19146, 21140, 21821, 21823.
- T1065 *Bupleurum longiradiatum* (Apiaceae); DA YE CHAI HU; Bigleaf Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 340, 2752, 2757, 2758, 19148, 20168.
- T1066 *Bupleurum marginatum* (Apiaceae); ZHU YE CHAI HU; Bambooleaf Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 14087, 15218, 17941, 19142, 19144, 19147, 19148, 19149.
- T1067 *Bupleurum marginatum* var. *stenophyllum* (Apiaceae); ZHAI ZHU YE CHAI HU; Narrowbambooleaf Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 498, 14087, 15218, 15705, 19140, 19141, 19144, 19145.
- T1068 *Bupleurum polyclonum* (Apiaceae); DUO ZHI CHAI HU; Ramose Thorowax\*. Isolated compounds: 19143, 19149, 21140, 21821, 21823.
- T1069 *Bupleurum rigidum* (Apiaceae); JIAN YING CHAI HU; Thorowax. Isolated compounds: 19245, 19246, 19247, 19248, 19249.
- T1070 *Bupleurum rockii* (Apiaceae); LI JIANG CHAI HU; Rock Thorowax. Isolated compounds: 19143, 19149.
- T1071 *Bupleurum rotundifolium* (Apiaceae); YUAN YE CHAI HU; Roundleaf Thorowax\*. Isolated compounds: 11642, 17918, 18944, 18945, 18946, 18947, 18948, 18949, 18950, 18951, 18952, 18953, 18956, 18957.
- T1072 *Bupleurum scorzoniferifolium* (Apiaceae); HONG CHAI HU; Red Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 501, 503, 1763, 3045, 3451, 3531, 4029, 5543, 6741, 7519, 7729, 7750, 9500, 9669, 10829, 11318, 11470, 12106, 12604, 15331, 15705, 16216, 16705, 19137, 19138, 19139, 19142, 19147, 19148, 19159, 19160, 19162, 19163, 19164, 19167, 19515, 19563, 19564, 19565, 20989, 20993, 20994, 21190, 22718.
- T1073 *Bupleurum sibiricum* (Apiaceae); XING AN CHAI HU; Siberia Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 17805.
- T1074 *Bupleurum smithii* (Apiaceae); HEI CHAI HU; Black Thorowax. Isolated compounds: 19136, 19142, 19143, 19147, 19148, 19150,

- 19151, 19152, 19153, 21139.
- T1075 *Bupleurum smithii* var. *parvifolium* (Apiaceae); XIAO YE HEI CHAI HU; Smallleaf Black Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 15218, 19134, 19135, 19136, 19142, 19148, 19154, 19155, 19156.
- T1076 *Bupleurum spinosum* (Apiaceae); DUO CI CHAI HU; Spiny Thorowax\*. Isolated compounds: 16857.
- T1077 *Bupleurum* spp. (Apiaceae). Isolated compounds: 19142, 19147, 19148.
- T1078 *Bupleurum wenchuanense* (Apiaceae); WEN CHUAN CHAI HU; Wenchuan Thorowax\*. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 499, 500, 5346, 8730, 17942, 21140, 21821, 21823, 22840.
- T1079 *Bupleurum yinchowense* (Apiaceae); YIN ZHOU CHAI HU; Yinchow Thorowax. Used part: root. TCM Effects: See *Bupleurum chinense*. TCM Indications: See *Bupleurum chinense*. Isolated compounds: 19142, 19143, 19148.
- T1080 *Bursera graveolens* (Burseraceae); LIE WEI LIE LAN; Bursera\*. Isolated compounds: 2769, 6954, 13098, 17343.
- T1081 *Bursera microphylla* (Burseraceae); XIAO YE LIE LAN; Elephant Tree. Isolated compounds: 1372, 2768.
- T1082 *Bursera tonkinensis* (Burseraceae); YUE NAN LIE LAN; Tonkin Bursera\*. Isolated compounds: 2765, 2766, 2767, 5074, 5075, 5582, 10446, 11477, 13907.
- T1083 *Butea monosperma* (Fabaceae); DAN ZI ZI MAO; Bengal Kino. Isolated compounds: 2786.
- T1084 *Buthus martensi* (Buthidae); QUAN XIE; Scorpion. Used part: body. TCM Effects: To calm, dispel wind and check tetany, free network vessels and relieve pain, attack toxin and dissipate binds. TCM Indications: Infant fright wind, convulsion, spasm, wind stroke with deviated eyes and mouth, hemiplegia, tetanus, wind-damp impediment, migraine, headache, toothache, deafness, hypertension, swelling toxin of welling abscess and sore, scrofula with phlegm node, snake bite, burns, wind papules, intractable lichen. Isolated compounds: 3585, 9486, 20280, 20732, 21939.
- T1085 *Buxus argentea* (Buxaceae); YIN BAI HUANG YANG; Argentine Box\*. Isolated compounds: 4543.
- T1086 *Buxus balearica* (Buxaceae); XI BAN YA HUANG YANG; Balearic Box. Isolated compounds: 4531.
- T1087 *Buxus bodinieri* (Buxaceae); QUE SHE HUANG YANG; Bodinier Box. Used part: root, leaf or flowe. TCM Effects: To clear heat and resolve toxin, suppress cough, stanch bleeding. TCM Indications: Cough, coughing of blood, toxin swelling of sores. Isolated compounds: 2818, 2819, 2820, 2821, 2822.
- T1088 *Buxus harlandii* (Buxaceae); XI YE HUANG YANG; Harland Box. Isolated compounds: 4477.
- T1089 *Buxus hyrcana* (Buxaceae); HE KA NI YA HUANG YANG; Hyrcanian Box\*. Isolated compounds: 2233, 4477, 11291, 21374.
- T1090 *Buxus malaiana* (Buxaceae); MA LAI XI YA HUANG YANG; Malaysian Box\*. Isolated compounds: 4531, 4543.
- T1091 *Buxus microphylla* (Buxaceae); XIAO YE HUANG YANG; Small-leaved Box. Isolated compounds: 4477, 4543.
- T1092 *Buxus microphylla* var. *sinica* (Buxaceae); HUANG YANG MU YE; Chinese Box Juvenile Leaf. Used part: tender leaf. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling. TCM Indications: Wind-damp impediment pain, *qi* distention in chest and abdomen, mounting *qi*, toothache, painful wound from knocks and falls. Isolated compounds: 2817, 2831, 2832, 4502, 4544, 11702.
- T1093 *Buxus papillosa* (Buxaceae); DUO RU TOU HUANG YANG; Papillose Box\*. Isolated compounds: 2813, 2814, 2815, 4516, 4532, 4542, 19696.
- T1094 *Buxus sempervirens* (Buxaceae); JIN SHU HUANG YANG; European Boxwood. Isolated compounds: 2191, 2816, 4477, 4531, 4543.
- T1095 *Buxus wallichiana* (Buxaceae); WA LI XI HUANG YANG; Himalayan Box. Isolated compounds: 4477, 4543.

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- T1096 *Cabucala fasciculata* CU SHENG KA BU MU. Isolated compounds: 22502.
- T1097 *Cacalia ainsliaeflora* (Asteraceae); TU ER FENG XIE JIA CAO; Ainsliaefolious Cacalia. Used part: tuber. TCM Effects: To dissipate stasis, resolve toxin, kill worms. TCM Indications: Wind-damp edema, innominate toxin swelling, *lai* lichen. Isolated compounds: 1215, 1217, 1218, 1222, 1227, 1231, 5356, 21827.
- T1098 *Cacospongia scalaris* . Isolated compounds: 6113.
- T1099 *Cadia* spp. (Fabaceae). Isolated compounds: 3004.
- T1100 *Caesalpinia crista* (Fabaceae); CI GUO SU MU; Nickernut Caesalpinia. Used part: ripe seed. TCM Effects: To quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Stomach duck pain, abdominal pain, red eyes with gall, sores. Isolated compounds: 137, 138, 2862, 2865, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 15349, 15350, 15722, 15723.
- T1101 *Caesalpinia decapetala* (Fabaceae); YUN SHI YE; Caesalpinia\*. Used part: leaf. TCM Effects: To clear heat and resolve toxin, dispel stasis and relieve pain, expel worms, free stool. TCM Indications: Intervallic fever, acute gastritis, chronic gastritis, gastric ulcer, dysentery, indigestion, intestinal worm accumulation, constipation, swollen boil. Isolated compounds: 1935, 2860, 3243, 13098, 18317, 18643, 20137, 20237, 20369.
- T1102 *Caesalpinia digyna* (Fabaceae); ER CI YUN SHI; Digyna Caesalpinia\*. Isolated compounds: 2312.
- T1103 *Caesalpinia echinata* (Fabaceae); JI YUN SHI; Brazil-wood. Isolated compounds: 2594.
- T1104 *Caesalpinia japonica* (Fabaceae); RI BEN SU MU; Japanese Caesalpinia\*. Isolated compounds: 17988.
- T1105 *Caesalpinia major* (Fabaceae); DA YUN SHI; Large Caesalpinia\*. Isolated compounds: 2862.
- T1106 *Caesalpinia minax* (Fabaceae); KU SHI LIAN; Whiteflower Caesalpinia. Used part: seed. TCM Effects: To clear heat and transform damp. TCM Indications: Wind-heat common cold, dysentery, strangury-turbidity, retching counterflow, swollen welling abscess, sore and lichen, knocks and falls, poisonous snake bite. Isolated compounds: 2863, 2864, 2865, 2866, 2867, 2868, 2869,

- 20369.
- T1107 *Caesalpinia pulcherrima* (Fabaceae); JI MEI YUN SHI; Prettiest Caesalpinia. Isolated compounds: 2244, 2283, 2861, 3244, 3708, 6263, 10748, 11258, 11777, 11778, 11779, 11780.
- T1108 *Caesalpinia sappan* (Fabaceae); SU MU; Sappan Caesalpinia. Used part: heartwood. TCM Effects: To quicken blood and dispel stasis, disperse swelling and relieve pain. TCM Indications: Amenorrhea and dysmenorrhea, postpartum blood stasis, stabbing pain in chest and abdomen, swelling pain due to external injury. Isolated compounds: 2594, 5195, 5211, 5212, 8095, 9337, 10177, 14099, 14159, 14402, 14403, 14700, 14720, 14721, 15451, 15457, 15935, 17985, 17986, 17987, 17988, 17989, 17990, 17991, 19346, 19347, 19347, 19348, 19348, 21033.
- T1109 *Caesalpinia tinctoria* (Fabaceae); SE ZE YUN SHI; Tinctorial Caesalpinia\*. Isolated compounds: 2108.
- T1110 *Calceolaria inamoena* (Scrophulariaceae); BU MEI HE BAO HUA; Chile Calceolaria\*. Isolated compounds: 10073, 10074, 10075, 10076.
- T1111 *Calea urticifolia* (Compositae); YOU KA MEI JU; Juanislama (in Salvador). Isolated compounds: 2956, 2957, 2958, 2964, 7060, 7153, 11895.
- T1112 *Calendula arvensis* (Asteraceae); XIAO JIN ZHAN HUA; Field Marigold. Used part: whole herb or flower. TCM Effects: To clear heat and stanch bleeding. TCM Indications: Intestinal wind bleeding, bleeding from hemorrhoids. Isolated compounds: 1828, 3211.
- T1113 *Calendula officinalis* (Asteraceae); JIN ZHAN JU; Potmarigold Calendula. Used part: flower and root. TCM Effects: To move *qi* and quicken blood (root), cool blood and stanch bleeding (flower). TCM Indications: Cold pain in stomach duct and abdomen, mounting *qi*, concretion and conglomeration (root), intestinal wind bleeding (flower). Isolated compounds: 1749, 1829, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 3866, 7821, 9588, 10948, 11659, 11662, 11667, 11669, 12980, 13212, 13287, 13479, 14233, 14980, 16015, 16016, 16017, 16018, 16041, 18190, 18378, 18378, 19039, 22154, 22520.
- T1114 *Calendula* sp. (Asteraceae). Isolated compounds: 15135.
- T1115 *Calliandra inermis* (Fabaceae); WU CI ZHU YING HUA; Spineless Powderpuff\*. Isolated compounds: 6240, 21182, 21186.
- T1116 *Callicarpa arborea* (Verbenaceae); QIAO MU ZI ZHU; Tree Beautyberry. Used part: root and leaf. TCM Effects: To cool blood and stanch bleeding. TCM Indications: Bleeding due to external injury, bleeding of digestive tract, spontaneous external bleeding, flooding and spotting. Isolated compounds: 2169, 14158, 19994.
- T1117 *Callicarpa candicans* (Verbenaceae); BAI MAO ZI ZHU; Whitehairy Beautyberry. Isolated compounds: 2976.
- T1118 *Callicarpa formosana* (Verbenaceae); DU HONG HUA; Taiwan Beautyberry. Equivalent plant: *Callicarpa japonica*. Used part: leaf. TCM Effects: To promote contraction and stanch bleeding, clear heat and resolve toxin. TCM Indications: Hemoptysis, retching blood, spontaneous external bleeding, gum hemorrhage, bloody urine, bloody stool, flooding and spotting, purpuric dermatosis, bleeding due to external injury, swelling toxin of welling abscess and flat abscess, poisonous snake bites, burns. Isolated compounds: 580, 16867.
- T1119 *Callicarpa japonica* (Verbenaceae); RI BEN ZI ZHU; Japanese Beautyberry. Used part: leaf. TCM Effects: See *Callicarpa formosana*. TCM Indications: See *Callicarpa formosana*. Isolated compounds: 21202.
- T1120 *Callicarpa macrophylla* (Verbenaceae); DA YE ZI ZHU; Bigleaf Beautyberry. Used part: root or leaf. TCM Effects: To stanch bleeding and relieve pain, dissipate stasis and disperse swelling. TCM Indications: Hemoptysis, spontaneous external bleeding, bleeding due to external injury, bleeding from dental extraction, painful swelling from knocks and falls, wind-damp bone pain. Isolated compounds: 1494, 2979, 2980.
- T1121 *Calocedrus macrolepis* var. *formosana* (Cupressaceae); TAI WAN CUI BAI; Taiwan Incense Cedar. Isolated compounds: 5806, 6092, 7886, 7887, 7888, 10696, 11563, 14069, 15146, 15513, 15891, 15892, 15896, 15897, 20628.
- T1122 *Caloglossa leprieurii* (Delesseriaceae); ZHE GU CAI; Leprieur Caloglossa Frond. Used part: frond. TCM Effects: To expel roundworm. TCM Indications: Ascariasis. Isolated compounds: 936, 3585.
- T1123 *Calophyllum austroindium* (Clusiaceae). Isolated compounds: 2989, 21122.
- T1124 *Calophyllum blancoi* (Clusiaceae). Isolated compounds: 335, 1470, 1471, 1472, 2997, 9857, 11086, 11230, 11231, 11232, 11645, 18251, 18562.
- T1125 *Calophyllum brasiliense* (Clusiaceae); BA XI HU TONG; Brazilian Calaba. Isolated compounds: 2590, 2591, 2592, 2593, 6011, 11262, 11263, 11264, 11808.
- T1126 *Calophyllum caledonicum* (Clusiaceae); SU GE LAN HU TONG; Caledonian Beautyleaf\*. Isolated compounds: 1470, 2961, 2962, 2963, 2988, 3001, 5844, 6181, 10463, 10464, 10831, 10832, 11230, 11303, 13808, 21790.
- T1127 *Calophyllum cordato-oblongum* (Clusiaceae); CHANG YUAN XIN XING HU TONG; Cordate-oblong Beautyleaf\*. Isolated compounds: 4038, 11341.
- T1128 *Calophyllum dispar* (Clusiaceae); BU DENG HONG HOU KE; Disparate Beautyleaf\*. Isolated compounds: 6513, 6514, 6515, 6516, 11380, 13465, 13466.
- T1129 *Calophyllum inophyllum* (Clusiaceae); HAI TANG GUO; Kalofilum. Used part: root and leaf. TCM Effects: To dispel stasis and relieve pain. TCM Indications: Wind-damp pain, knocks and falls, dysmenorrhea, bleeding due to external injury. Isolated compounds: 2590, 2694, 2945, 2989, 2990, 2991, 2998, 2999, 3000, 5184, 5184, 6181, 7951, 9857, 11064, 11065, 11066, 11070, 11071, 11072, 11073, 11074, 11075, 11076, 11077, 11078, 11079, 11080, 11086, 11464, 11808, 13809, 17718.
- T1130 *Calophyllum polyanthum* (Clusiaceae); DIAN NAN HONG HOU KE; S. Yunnan Beautyleaf. Used part: Seed. Isolated compounds: 2942, 2992, 2993, 2994, 2995, 4680, 5763, 5963, 6202, 8095, 10382, 16209, 19983, 22270.
- T1131 *Calophyllum* sp. (Clusiaceae). Isolated compounds: 11808.
- T1132 *Calophyllum* spp. (Clusiaceae). Isolated compounds: 6181.
- T1133 *Calophyllum teysmannii* (Clusiaceae); TE SI MAN NI HU TONG; Teysmanni Beautyleaf\*. Isolated compounds: 20109.
- T1134 *Calophyllum teysmannii* var. *inophylloide* (Clusiaceae); TE SI MAN

- NI HU TONG BIAN ZHONG; Teysmanni Beautyleaf Variaty\*. Isolated compounds: 3163, 10757, 10805, 10806, 12607, 19567, 21232, 21937.
- T1135 *Calophyllum tomentosum* (Clusiaceae); RONG MAO HU TONG; Tomentose Calaba. Isolated compounds: 21438, 21439.
- T1136 *Calotropis procera* (Asclepiadaceae); CHANG NIU JIAO GUA; Long Calotrope\*. Isolated compounds: 17870, 22280.
- T1137 *Caltha palustris* (Ranunculaceae); MA TI YE; Common Marshmarigold. Used part: whole herb. TCM Effects: To expel wind, resolve summerheat, quicken blood and disperse swelling. TCM Indications: Wind damage common cold, summerheat stroke with sand, knocks and falls, burns and scalds. Isolated compounds: 1178, 1179, 4123, 4293, 4680, 9259, 9276, 9330, 13374, 15477, 15527, 16576, 19542, 19983, 22195.
- T1138 *Caltha polypetala* (Ranunculaceae); DUO BAN LV TI CAO; Manypetal Marshmarigold. Isolated compounds: 8067, 8068.
- T1139 *Calycanthus floridus* (Calycanthaceae); MEI GUO XIA LA MEI; Carolina Allspice. Isolated compounds: 3002, 7481.
- T1140 *Calycanthus occidentalis* (Calycanthaceae); JIA ZHOU XIA LA MEI; Californian Allspice. Isolated compounds: 3002.
- T1141 *Calycophyllum spruceanum* (Rubiaceae). Isolated compounds: 376, 5477, 13905, 19636, 21376.
- T1142 *Calycopteris floribunda* (Combretaceae); E CHI TENG. Isolated compounds: 3003, 3008, 3009, 5051, 6871, 6872.
- T1143 *Calystegia hederacea* (Convolvulaceae); MIAN GEN TENG; Ivy Glorybind. Used part: herb or root. TCM Effects: To fortify spleen, disinherit damp, regulate menstruation. TCM Indications: Strangury, vaginal discharge, menstrual disorder, child *gan* accumulation. Isolated compounds: 3939.
- T1144 *Camassia leichtlinii* (Liliaceae). Isolated compounds: 8653, 8654, 8655, 8687, 8721, 8722, 10716, 10717, 10718, 10719, 10720, 10721.
- T1145 *Camellia japonica* (Theaceae); SHAN CHA; Japanese Camellia. Used part: flower. TCM Effects: To cool blood and stanch bleeding, dissipate stasis and disperse swelling. TCM Indications: Blood ejection, spontaneous external bleeding, hemoptysis, hematochezia, bleeding from hemorrhoids, red and white dysentery, flooding, blood strangury, vaginal discharge, scalds, knocks and falls. Isolated compounds: 3036, 3037, 6853, 13546, 16765, 20910.
- T1146 *Camellia oleifera* (Theaceae); CHA ZI XIN; Oiltea Camellia. Used part: seed. TCM Effects: To soothe stagnation and move *qi*. TCM Indications: *Qi* stagnation with abdominal pain and diarrhea, itchy skin, burns and scalds. Isolated compounds: 2151, 3030, 3031, 3032, 3033, 3034, 8769, 10096, 21281.
- T1147 *Camellia oleifera* (Theaceae); YOU CHA GEN PI; Oiltea Camellia Root-bark. Used part: root cortex. TCM Effects: To dissipate stasis and disperse swelling, quicken blood and joint bones. TCM Indications: Fracture, sprain and contusion, abdominal pain, itchy skin, burns and scalds. Isolated compounds: 8769, 21281.
- T1148 *Camellia saluenensis* (Theaceae); NU JIANG SHAN CHA; Salwin Camellia. Used part: leaf and tender gemma. TCM Effects: To clear heat and disinherit urine. Isolated compounds: 19199.
- T1149 *Camellia sasanqua* (Theaceae); CHA MEI; Sasanqua Camellia. Isolated compounds: 10096.
- T1150 *Camellia sinensis* [Syn. *Thea sinensis*] (Theaceae); CHA HUA; Tea Flower. Used part: flower. TCM Effects: To clear lung and calm liver. TCM Indications: *Gan* of nose, hypertension. Isolated compounds: 17617.
- T1151 *Camellia sinensis* [Syn. *Thea sinensis*] (Theaceae); CHA SHU GEN; Tea Root. Used part: root. TCM Effects: To strengthen heart and disinherit urine, quicken blood and regulate menstruation, clear heat and resolve toxin. TCM Indications: Edema due to heart disease, hepatitis, dysmenorrhea, toxin swelling of sores, mouth sore, burns and scalds, zoster, psoriasis. Isolated compounds: 2892, 7807, 7820.
- T1152 *Camellia sinensis* [Syn. *Thea sinensis*] (Theaceae); CHA YE; Common Tea. Used part: tender leaf or tender bud. TCM Effects: To clear head and eyes, eliminate vexation and allay thirst, disperse food, transform phlegm, disinherit urine, resolve toxin. TCM Indications: Headache, dim vision, red eyes, desire to sleep, common cold, vexation and thirst, food accumulation, bad breath, phlegm asthma, epilepsy, inhibited urination, diarrhea, throat swelling, swelling of sores and boils, burns and scalds. Isolated compounds: 2285, 2892, 3035, 3038, 3039, 3308, 3551, 3761, 4439, 5018, 5022, 5608, 6384, 6853, 6864, 6921, 6922, 6923, 8025, 8098, 9413, 9414, 9416, 9417, 9526, 11025, 11642, 11740, 11824, 12203, 14649, 14671, 15963, 17100, 17115, 18274, 19185, 20995, 21282, 21290, 21291, 21310, 21312, 21949, 21966, 22756.
- T1153 *Camellia sinensis* [Syn. *Thea sinensis*] (Theaceae); CHA ZI; Tea Seed. Used part: seed. TCM Effects: To downbear fire, transform phlegm and calm asthma. TCM Indications: Phlegm-heat cough, ringing in head. Isolated compounds: 21281, 21283, 21284, 21285, 21286, 21287, 21288, 21289.
- T1154 *Camellia sinensis* var. *assamica* (Theaceae); PU ER CHA; Assam Tea. Used part: leaf. TCM Effects: To engender liquid and allay thirst, expel phlegm and precipitate *qi*. TCM Indications: Sand *qi* abdominal pain, cholera, dysentery. Isolated compounds: 1235, 1236, 1237, 1915, 1916, 1917, 1918, 1919, 1920, 5243, 7832, 15279, 17884, 22061, 22062, 22063.
- T1155 *Camellia sinensis* var. *viridis* (Theaceae); WU LONG CHA; Oolong Tea. Isolated compounds: 16124, 16125, 21280.
- T1156 *Campanula medium* (Campanulaceae); FENG LING CAO; Canterburybells. Isolated compounds: 12939.
- T1157 *Campanula rotundifolia* (Campanulaceae); YUAN YE FENG LING CAO; Harebell. Isolated compounds: 21644.
- T1158 *Campanula* sp. (Campanulaceae). Isolated compounds: 7944.
- T1159 *Campomanesia lineatifolia* (Myrtaceae); Champa; Palillo (in local names). Isolated compounds: 3472, 3473, 3474.
- T1160 *Campsis grandiflora* (Bignoniaceae); ZI WEI; Chinese Trumpetreeper. Used part: flower. TCM Effects: To clear heat and cool blood, transform stasis and dissipate binds, dispel wind and relieve itch. TCM Indications: Blood stagnation and menstrual block, dysmenorrhea, concretion and conglomeration, flooding and spotting, wind papule itching due to blood heat, urticari with sore and scab, brandy nose. Isolated compounds: 1476, 16050.
- T1161 *Campsis grandiflora* (Bignoniaceae); ZI WEI JING YE; Chinese Trumpetreeper Stem-leaf. Used part: stem-leaf. TCM Effects: To clear heat, cool blood, dissipate stasis. TCM Indications: Wind due to blood heat, itchy body, wind papules, limp aching numbness in limbs,

- swelling pain in throat. Isolated compounds: 2839, 2840, 2841, 2842, 9878, 15284, 20897.
- T1162 *Camptotheca acuminata* (Nyssaceae); XI SHU; Common Camptothecae. Used part: fruit or root. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse concretion, anticancer. TCM Indications: Acute leukemia, chronic leukemia, psoriasis, swollen liver and spleen due to bilharziosis, carcinoma of esophagus, carcinoma of cardia, carcinoma of intestine, carcinoma of liver, carcinoma of stomach, swelling of sores. Isolated compounds: 341, 1935, 2334, 3053, 5157, 7896, 7971, 8291, 8667, 9882, 9883, 10887, 11642, 13831, 13863, 13864, 14139, 14365, 14366, 14377, 15880, 18199, 18317, 20391, 21634, 21955, 21961, 22496.  
*Campylandra wattii* = *Tupistra wattii*
- T1163 *Campylotropis hirtella* (Fabaceae); MAO HANG ZI SHAO; Hairy Clovershrub. Used part: root. TCM Effects: To quicken blood and regulate menstruation, rectify *qi* and relieve pain, clear heat and disinherit damp. TCM Indications: Menstrual disorder, amenorrhea, dysmenorrhea, vaginal discharge, dysentery, pain in stomach duct, bleeding due to external injury, yellow-water sore, burns and scalds. Isolated compounds: 17869, 17876, 17888, 17893.
- T1164 *Cananga odorata* (Annonaceae); YI LAN; Fragrant Gananga. Isolated compounds: 3060, 4284, 7515, 7516, 11421, 11690, 22920.
- T1165 *Canarium album* (Burseraceae); QING GUO; Olive. Used part: fruit. TCM Effects: To clear heat, disinherit throat, engender liquid, resolve toxin. TCM Indications: Swelling pain in throat, cough, vexation and thirst, poisoning of fish or crab. Isolated compounds: 1110, 2602, 3231, 7481, 8095, 16039, 22265, 22266.
- T1166 *Canarium commune* (Burseraceae); ZHAO WA GAN LAN; Java Almond Canary-tree. Isolated compounds: 6745.
- T1167 *Canarium* sp. (Burseraceae). Isolated compounds: 20711.
- T1168 *Canavalia ensiformis* (Fabaceae); YANG DAO DOU; Sword-bean. Used part: seed. TCM Effects: See *Canavalia gladiata*. TCM Indications: See *Canavalia gladiata*. Isolated compounds: 3059, 3063, 13103.
- T1169 *Canavalia gladiata* (Fabaceae); DAO DOU; Sword Jackbean. Equivalent plant: *Canavalia ensiformis*. Used part: seed. TCM Effects: To warm center, precipitate *qi*, check hiccups. TCM Indications: Vacuity cold and hiccough, vomiting. Isolated compounds: 1045, 1054, 3059, 3061, 3062, 9620.
- T1170 *Canis familiaris* (Canidae); GOU ROU; Dog Meat. Used part: meat. TCM Effects: To supplement spleen and warm stomach, warm kidney and invigorate *yang*, replenish essence. TCM Indications: Distention fullness in stomach duct and abdomen, edema, lumbago and limp leg, impotence, cold malaria, enduring vanquished sore. Isolated compounds: 3205, 4221.
- T1171 *Canis familiaris* (Canidae); GOU XIN; Dog Heart. Used part: heart. TCM Effects: To quiet spirit, dispel wind, stanch bleeding, resolve toxin. TCM Indications: Wind impediment, *qi* depression, nosebleed (epistaxis), sore in lower body. Isolated compounds: 4221.
- T1172 *Canna edulis* (Cannaceae); JIAO YU; Edible Canna. Used part: Rhizome. TCM Effects: To clear heat, resolve toxin, disinherit damp. TCM Indications: Dysentery, diarrhea, jaundice, swelling toxin of welling abscess and sore. Isolated compounds: 4157, 5441.
- T1173 *Cannabis sativa* (Moraceae); HUO MA REN; Hemp Fimble Seed. Used part: ripe seed. TCM Effects: To moisten dryness, lubricate intestines, free stool. TCM Indications: Blood and liquid depletion, intestinal dry and constipation. Isolated compounds: 3077, 3079, 3082, 7788, 15126, 20988, 21059, 21060, 21662, 22975.
- T1174 *Cannabis sativa* (Moraceae); MA GEN; Hemp Fimble Root. Used part: root. TCM Effects: To dissipate stasis, stanch bleeding, disinherit urine. TCM Indications: Knocks and falls, difficult delivery, retention of placenta, flooding, strangury syndrome, vaginal discharge. Isolated compounds: 1262, 15516, 20347, 20350, 20353, 20354.
- T1175 *Cannabis sativa* (Moraceae); MA HUA; Hemp Fimble Flower\*. Used part: male-flower. TCM Effects: To dispel wind, quicken blood, engender hairs. TCM Indications: Numbness in limbs, itchy body, shedding of eyebrow and hair, amenorrhea. Isolated compounds: 3079, 3080, 3081, 3082, 7521, 12853, 15125, 17450, 19680, 19681, 21058, 21059, 21662.
- T1176 *Cannabis sativa* (Moraceae); MA YE; Hemp Fimble Leaf. Used part: leaf. TCM Effects: To interrupt malaria, expel roundworm, settle asthma. TCM Indications: Malaria, asthma, ascariasis. Isolated compounds: 342, 402, 1262, 3078, 3080, 3083, 21060.
- T1177 *Cannabis sativa* var. *indica* (Moraceae); YIN DU DA MA; Indian Hemp\*. Isolated compounds: 3079, 3080.
- T1178 *Canthium berberidifolium* (Rubiaceae); SI XIAO BO SHUANG YE YU GU MU; Barberry-like-leaf Canthium. Isolated compounds: 1516, 3099, 3100, 3101, 3102.
- T1179 *Capparis masaikai* (Capparidaceae); MA BING LANG; Masaikai Caper. Used part: seed. TCM Effects: To clear heat and resolve toxin, engender liquid and allay thirst, hasten delivery or stop delivery. TCM Indications: Cold damage febrile disease, summerheat-heat and thirst, laryngitis, throat pain, food stagnation distention and fullness, measles papules swelling toxin. Isolated compounds: 10103, 16286.
- T1180 *Capparis spinosa* (Capparidaceae); LAO SHU GUA; Common Caper. Used part: root cortex, leaf and fruit. TCM Effects: To dispel wind, dissipate cold, eliminate damp. TCM Indications: Acute rheumatic arthritis, chronic rheumatic arthritis. Isolated compounds: 3136, 3137, 4035, 7768, 19912, 20173, 20174, 20254.
- T1181 *Capra hircus*; *Ovis aries* (Bovidae); YANG PI; Goat Hide. Used part: hide. TCM Effects: To supplement vacuity, dispel stasis, disperse swelling. TCM Indications: Vacuity taxation with emaciation and weakness, painful swelling from knocks and falls, bleeding due to tympanites. Isolated compounds: 13659.
- T1182 *Capra hircus*; *Ovis aries* (Bovidae); YANG RU; Goat Milk. Used part: milk. TCM Effects: To supplement vacuity, moisten dryness, harmonize stomach, resolve toxin. TCM Indications: Vacuity taxation with emaciation and weakness, diabetes mellitus, heartache, stomach reflux, vomiting, mouth sore, lacquer sore, spider bite. Isolated compounds: 6544, 15528.
- T1183 *Capra hircus*; *Ovis aries* (Bovidae); YANG YI; Goat Pancreas. Used part: pancreas. TCM Effects: To moisten lung and relieve cough, moisten skin, check discharge. TCM Indications: Lung heat enduring cough, Vaginal discharge. Isolated compounds: 11083, 11084, 11085.
- T1184 *Capsella bursa-pastoris* (Brassicaceae); JI CAI; Shepherdspurse. Used part: whole herb with root. TCM Effects: To cool liver and stanch



- bleeding, calm liver and brighten eyes, clear heat and disinhibit damp. TCM Indications: Blood ejection, spontaneous external bleeding, hemoptysis, hematuria, flooding and spotting, red eyes with gall, eyeground hemorrhage, hypertension, red and white dysentery, nephritis with edema, chyluria. Isolated compounds: 351, 645, 5613, 5614, 6454, 6632, 7996, 8963, 9458, 12015, 13149, 18281, 18857, 19935, 20467, 22158.
- T1185 *Capsella bursa-pastoris* (Brassicaceae); JI CAI ZI; Shepherdspurse Seed. Used part: seed. TCM Effects: To dispel wind and brighten eyes. TCM Indications: Eye pain, eye screen, clear-eye blindness. Isolated compounds: 6454.
- T1186 *Capsicum annuum* (Solanaceae); HONG HAI JIAO; Sweet Pepper. Equivalent plant: *Capsicum frutescens*. Used part: fruit. TCM Effects: To warm center and dissipate cold, precipitate *qi* and disperse food. TCM Indications: Stomach cold and *qi* stagnation, distending pain in stomach duct, vomiting, diarrhea, wind-damp pain, frostbite. Isolated compounds: 1358, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3141, 3142, 3145, 3146, 3209, 3210, 4188, 4189, 4293, 5158, 5472, 5588, 6607, 7788, 7789, 7790, 9599, 9603, 9888, 9889, 12520, 13017, 13139, 15477, 15740, 18281, 22976.
- T1187 *Capsicum frutescens* (Solanaceae); LA JIAO; Bush Redpepper. Used part: fruit. TCM Effects: See *Capsicum annuum*. TCM Indications: See *Capsicum annuum*. Isolated compounds: 3141, 3142, 3144, 3145, 3209, 4858, 5553, 15702, 15740, 20044, 20056, 20066, 20069.
- T1188 *Caragana chamlagu* (Fabaceae); JIN JI ER; Peashrub\*. Used part: flower. TCM Effects: To fortify spleen and boost kidney, harmonize blood and dispel wind, resolve toxin. TCM Indications: Vacuity taxation cough, dizzy head and tinnitus, limp aching lumbus and knees, *qi* vacuity, vaginal discharge, child *gan* accumulation, pox without coming out, mammary welling abscess, pain wind, knocks and falls. Isolated compounds: 22504.
- T1189 *Caragana intermedia* (Fabaceae); ZHONG JIAN JIN JI ER; Intermediate Peashrub. Used part: whole herb. TCM Effects: To enrich *yin* and supplement blood, quicken blood. TCM Indications: Menstrual disorder [= menoxenia]. Isolated compounds: 6909, 7504, 7505, 7506, 7507, 10109, 21731, 21981.
- T1190 *Caragana jubata* (Fabaceae); GUI JIAN JIN JI ER; Shagspine Peashrub. Used part: root, branch-leaf. TCM Effects: To clear heat and resolve toxin, lower blood pressure. TCM Indications: Mammary welling abscess, swelling toxin of sore and boil, hypertension. Isolated compounds: 2843, 11652, 11663, 15170, 15184, 18379, 18407.
- T1191 *Caragana sinica* (Fabaceae); JIN QUE GEN; Chinese Peashrub Root. Used part: root and root cortex. TCM Effects: To supplement lung and boost spleen, dispel wind and quicken blood. TCM Indications: Vacuity taxation, lung vacuity enduring cough, flooding, vaginal discharge, scant breast milk, wind-damp bone pain, pain wind, hemiplegia, hypertension, knocks and falls. Isolated compounds: 3434, 4680, 10420, 16550.
- T1192 *Caragana stenophylla* (Fabaceae); XIA YE JIN JI ER; Narrowleaf Peashrub. Isolated compounds: 3149, 12239, 14892, 22504.
- T1193 *Caragana tibetica* (Fabaceae); MAO CI JIN JI ER; Tibet Peasshrub. Isolated compounds: 3289, 3291, 11672, 12258, 17278, 18643, 19394, 19531, 19532, 20556, 21369.
- T1194 *Carassius auratus* (Cyprinidae); JIN YU; Crucian Carp. Used part: meat or body. TCM Effects: To clear heat, disinhibit water, resolve toxin. TCM Indications: Cough, jaundice, ascites ulcer. Isolated compounds: 653, 1921, 2393, 3095, 6190, 6560, 9853, 11784, 11785, 11806, 12201, 13126, 15708, 18530, 22772, 22976.
- T1195 *Cardaria draba* (Brassicaceae); QUN XIN CAI; Common Cardaria. Isolated compounds: 7323, 14728.
- T1196 *Cardiospermum grandiflorum* (Sapindaceae); DA HUA DAO DI LING; Bigflower Heartseed\*. Isolated compounds: 3190.
- T1197 *Cardiospermum halicacabum* (Sapindaceae); JIA KU GUA; Balloonvine Heartseed. Used part: whole herb. TCM Effects: To clear heat and disinhibit water, cool blood and resolve toxin. TCM Indications: Jaundice, strangury, clove sore, vesicle sore, scab and *lai*, snake bite. Isolated compounds: 4453, 4454.
- T1198 *Cardiospermum hirsutum* (Sapindaceae); MAO DAO DI LING; Hairy Heartseed\*. Isolated compounds: 3190.
- T1199 *Carduus acanthoides* (Asteraceae); JIE MAO FEI LIAN; Welled Thistle. Used part: root or whole herb. TCM Effects: See *Carduus crispus*. TCM Indications: See *Carduus crispus*. Isolated compounds: 80.
- T1200 *Carduus crispus* (Asteraceae); FEI LIAN; Curly Bristlethistle. Equivalent plant: *Carduus acanthoides*. Used part: root or whole herb. TCM Effects: To dispel wind, clear heat, disinhibit damp, cool blood and stanch bleeding, quicken blood and disperse swelling. TCM Indications: Common cold with cough, headache and dizziness, infection of urinary system, chyluria, vaginal discharge, jaundice, wind-heat impediment pain, blood ejection, spontaneous external bleeding, hematuria, profuse menstruation, dysfunctional uterine bleeding, knocks and falls, clove sore and swollen boil, toxin swelling from hemorrhoids, scalds. Isolated compounds: 80, 81.
- T1201 *Carex fedia* var. *miyabei* (Cyperaceae). Isolated compounds: 14892.
- T1202 *Carex kobomugi* (Cyperaceae); SHA ZUAN TAI CAO; Sieve Sedge. Used part: fruit. TCM Effects: To fortify spleen and boost *qi*, downbear counterflow and check vomiting. TCM Indications: Spleen-stomach vacuity, vomiting and hiccough. Isolated compounds: 12239.
- T1203 *Carex pendula* (Cyperaceae); XIA CHUI TAI CAO; Drooping Sedge\*. Isolated compounds: 12240, 14890, 14891.
- T1204 *Careya arborea* KA LI YU RUI. Isolated compounds: 3193.
- T1205 *Carica papaya* (Caricaceae); FAN MU GUA; Papaya Fruit. Used part: fruit. TCM Effects: To disperse food and promote lactation, dispel damp and free network vessels, resolve toxin and kill worms. TCM Indications: Stomachache, dysentery, inhibited urine and stool, wind impediment, foot rot. Isolated compounds: 1358, 2294, 3209, 3210, 3214, 3215, 3218, 4293, 4294, 8760, 15135, 17263, 17264, 19650, 22520.
- T1206 *Carica papaya* (Caricaceae); FAN MU GUA YE; Papaya Leaf. Used part: leaf. TCM Effects: To resolve toxin, joint bones. TCM Indications: Toxin swelling of sores, fracture. Isolated compounds: 18022.
- T1207 *Carissa edulis* (Apocynaceae); AI JI JIA HU CI; Egyptian Carissa. Isolated compounds: 15806.
- T1208 *Carlina acaulis* (Asteraceae); CHAO XIAN JI; Stemless Carline

- Thistle. Isolated compounds: 3200.
- T1209 *Carnegiea gigantea* (Cactaceae); JU REN ZHU. Isolated compounds: 16746.
- T1210 *Carpesium abrotanoides* (Asteraceae); TIAN MING JING; Common Carpesium. Used part: root, stem-leaf. TCM Effects: To clear heat, transform phlegm, resolve toxin, kill worms, break stasis, stanch bleeding. TCM Indications: Nipple moth, throat impediment, acute fright wind, chronic fright wind, toothache, swelling toxin of clove sore, hemorrhoids and fistulas, Itchy papules, poisonous snake bite, worm accumulation, blood conglomeration, blood ejection, spontaneous external bleeding, blood strangury, bleeding due to external injury. Isolated compounds: 2850, 3147, 3220, 3241, 3242, 8313, 8313, 8982, 11468, 11796, 20369, 20906, 20988.
- T1211 *Carpesium abrotanoides* (Asteraceae); TIAN MING JING GUO; Common Carpesium Fruit. Used part: fruit. TCM Effects: To kill worms. TCM Indications: Ascariasis, oxyuria disease, ancylostomiasis, taeniasis, child *gan* accumulation. Isolated compounds: 3147, 3220.
- T1212 *Carpesium eximium* (Asteraceae); DA HUA JIN WA ER; Bigflower Carpesium\*. Used part: whole herb or root cortex. TCM Effects: To cool blood and stanch bleeding, dispel stasis. TCM Indications: Bleeding due to external injury, knocks and falls. Isolated compounds: 3147.
- T1213 *Carpesium longifolium* (Asteraceae); CHANG YE TIAN MING JING; Longleaf Carpesium. Isolated compounds: 191, 5498, 5648, 5689, 7147, 10020, 11203, 14828, 16675, 19983.
- T1214 *Carpesium triste* var. *manshuricum* (Asteraceae); DONG BEI AN HUA JIN WA ER; Northeast Dim-flower Carpesium\*. Isolated compounds: 7074, 7076.
- T1215 *Carthamus tinctorius* (Asteraceae); HONG HUA; Safflower. Used part: flower. TCM Effects: To quicken blood and free menstruation, dissipate stasis and relieve pain. TCM Indications: Amenorrhea, dysmenorrhea, retention of lochia, angina pectoris, cerebral thrombosis, neurodermatitis, concretion and conglomeration, lump glomus, knocks and falls, swollen pain due to bleeding. Isolated compounds: 618, 1598, 2228, 3223, 3224, 3225, 3226, 3844, 4966, 6101, 9385, 9486, 9493, 9515, 9516, 10273, 10684, 11754, 12020, 12569, 12891, 12893, 15203, 15358, 15660, 15662, 16108, 16109, 17090, 17771, 17915, 18317, 18833, 19087, 19110, 19111, 19122, 19983, 20280, 21415, 21604, 21605, 21607, 21613, 21614, 21615, 21617, 21618, 21619, 21620, 21919.
- T1216 *Carum ajowan* (Apiaceae); YIN DU ZANG HUI XIANG; India Caraway\*. Isolated compounds: 5154, 5171, 6093, 10039, 10378, 10763, 10764, 13761, 13762, 13767.
- T1217 *Carum carvi* (Apiaceae); GE LU ZI; Caraway. Used part: fruit. TCM Effects: To rectify *qi* and promote digestion, dissipate cold and relieve pain. TCM Indications: Cold pain in stomach duct and abdomen, retching counterflow, indigestion, mounting *qi*, cold stagnation lumbago. Isolated compounds: 3237, 5809, 5810, 7975, 9896, 11964, 12843, 13729, 13730, 13731, 13732, 13733, 13734, 13735, 13736, 13737, 13738, 13752, 13754, 13763, 13966, 16927.
- T1218 *Carya illinoensis* (Juglandaceae); MEI GUO SHAN HE TAO; Pecan. Isolated compounds: 11903.
- T1219 *Carya ovata* (Juglandaceae); CU PI SHAN HE TAO; Shagbark Hickory. Isolated compounds: 11903.
- T1220 *Caryopteris clandonensis* (Verbenaceae); ZA JIAO YOU<sup>(2)</sup>; Hybrid Bluebeard\*. Isolated compounds: 356, 3785, 3786, 3787, 6818.
- T1221 *Caryopteris divaricata* (Verbenaceae); YOU<sup>(2)</sup>; Divaricate Bluebeard. Isolated compounds: 3246.
- T1222 *Caryopteris glutinosa* (Verbenaceae); NIAN YE YOU<sup>(2)</sup>; Glutinous Bluebeard. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin. Isolated compounds: 8787.
- T1223 *Casearia guianensis* (Flacourtiaceae). Isolated compounds: 3269, 3270, 3272, 3273.
- T1224 *Casearia membranacea* (Flacourtiaceae); MO ZHI JIAO GU CUI; Membranous Casearia\*. Isolated compounds: 1367, 3257, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3266, 3267, 3268, 3271, 3274, 5297, 7788, 7789, 7951, 14484, 19981, 19983, 19985, 20237, 20356, 20362, 20363, 20554, 22332.
- T1225 *Casearia sylvestris* var. *lingua* (Flacourtiaceae); SHE XING LIN SHENG JIAO GU CUI; Lingual Forest-in Casearia\*. Isolated compounds: 184, 3258.
- T1226 *Casimiroa edulis* (Rutaceae); XIANG ROU GUO; Edible Casimiroa. Isolated compounds: 3275, 16559.
- T1227 *Casimiroa tetrameria* (Rutaceae); SI JI XIANG ROU GUO; Tetrabase Casimiroa\*. Isolated compounds: 9508, 13963, 16868.
- T1228 *Cassia absus* (Fabaceae); A SU JUE MING; Absus Senna\*. Isolated compounds: 3452.
- T1229 *Cassia acutifolia* (Fabaceae); JIAN YE FAN XIE YE; Sharpleaf Senna Leaf. Used part: leaf. TCM Effects: See *Cassia angustifolia*. TCM Indications: See *Cassia angustifolia*. Isolated compounds: 967, 3615, 6368, 12020, 17247, 18759, 19749, 19750, 19751, 19752.
- T1230 *Cassia angustifolia* (Fabaceae); FAN XIE YE; Narrowleaf Senna Leaf. Equivalent plant: *Cassia acutifolia*. Used part: leaf. TCM Effects: To drain heat and move stagnation, free stool, disinherit water. TCM Indications: Heat bind and accumulation, constipation with abdominal pain, edema distention fullness. Isolated compounds: 968, 3615, 12020, 17247, 18759, 19749, 19750, 19751, 19752.
- T1231 *Cassia dentata* (Fabaceae); CHI CHI JUE MING; Toothwing Senna\*. Isolated compounds: 18643.
- T1232 *Cassia fistula* (Fabaceae); PO LUO MEN ZAO JIA; Goldenshower Senna Fruit. Used part: fruit. TCM Effects: To clear heat and free stool, transform stagnation and relieve pain. TCM Indications: Heat wind in heart and diaphragm, steaming bone fever and chills, three worms. Isolated compounds: 2289, 2291, 3615, 3620, 7804, 10205, 10218, 10493, 10603, 17869.
- T1233 *Cassia garrettiana* (Fabaceae); JIA LEI JUE MING; Garretti Senna\*. Isolated compounds: 3285, 3286, 3287, 3288, 3289, 3290, 3291, 17968.
- T1234 *Cassia italika* (Fabaceae); YI DA LI JUE MING ZI; Italian Senna\*. Isolated compounds: 6016.
- T1235 *Cassia kleinii* (Fabaceae); KE LEI NI JUE MING; Kleini Senna\*. Isolated compounds: 12233, 12234, 12235, 12236.
- T1236 *Cassia laevigata* [Syn. *Cassia floribunda*] (Fabaceae); GUANG YE JUE MING; Nitidleaf Senna\*. Used part: root and leaf. TCM Effects: To clear liver and brighten eyes, free stool. TCM Indications: Common cold with fever, liver heat and red eyes, eye screen,

- constipation. Isolated compounds: 8054.
- T1237 *Cassia leptophylla* (Fabaceae); XIA YE JUE MING; Narrowleaf Senna\*. Isolated compounds: 20141.
- T1238 *Cassia mimosoides* (Fabaceae); SHAN BIAN DOU ZI; Sensitiveplant-like Senna. Used part: seed. TCM Effects: To clear heat and resolve toxin, fortify spleen and disinhibit damp, free stool. TCM Indications: Jaundice, summerheat-heat and vomiting diarrhea, child *gan* accumulation, edema, inhibited urination, habitual constipation, poisonous snake bite. Isolated compounds: 967, 3615, 18759.
- T1239 *Cassia nodosa* (Fabaceae); SHEN HUANG DOU; Jointwood Senna. Used part: fruit. TCM Effects: To resolve toxin. TCM Indications: Papules, pox. Isolated compounds: 2064, 15651, 15654.
- T1240 *Cassia obtusifolia* (Fabaceae); DUN YE JUE MING; Obtuseleaf Senna\*. Equivalent plant: *Cassia tora*. Used part: ripe seed. TCM Effects: To clear liver and brighten eyes, disinhibit water and free stool. TCM Indications: Red eyes with gall, delacrimation and photophobia, clear-eye blindness, night blindness, dizziness and headache, dim vision, cirrhosis with ascites, inhibited urination, habitual constipation, toxin swelling, skin lichen. Isolated compounds: 967, 2009, 3613, 3615, 6776, 8649, 8696, 11744, 17247, 21459.
- T1241 *Cassia occidentalis* (Fabaceae); WANG JIANG NAN; Coffee Senna. Used part: stem-leaf. TCM Effects: To clear lung, clear liver, calm asthma, disinhibit urine, free stool, resolve toxin and disperse swelling, lower blood pressure. TCM Indications: Cough and asthma, hypertension, headache and red eyes, dribbling urination, constipation, swelling toxin of welling abscess and sore, snake or insect bites. Isolated compounds: 967, 3281, 3282, 3283, 3599, 3615, 6776, 9333, 9791, 15914, 15915, 19933.
- T1242 *Cassia occidentalis* (Fabaceae); WANG JIANG NAN ZI; Coffee Senna Seed. Used part: seed. TCM Effects: To clear liver, fortify stomach, free stool, resolve toxin. TCM Indications: Red eyes with gall, dizzy and distended head, indigestion, stomachache, dysentery, constipation, swollen welling abscess and toxin of clove. Isolated compounds: 967, 6776, 17247.
- T1243 *Cassia quinquangula* (Fabaceae); WU LENG JUE MING; Fiveangular Senna\*. Isolated compounds: 18444, 19041.
- T1244 *Cassia siamea* (Fabaceae); TIE DAO MU; Siamese Senna. Isolated compounds: 3598, 3615, 14521.
- T1245 *Cassia sieberiana* (Fabaceae); XI BO JUE MING; Sieber Senna. Isolated compounds: 6819.
- T1246 *Cassia singueana* (Fabaceae); DONG FEI JUE MING; East-African Senna\*. Isolated compounds: 19933, 19934.
- T1247 *Cassia sophera* (Fabaceae); JIANG MANG; Inflatedfruit Senna. Used part: seed. TCM Effects: To dispel phlegm and allay thirst, regulate center. TCM Indications: Red eyes with gall, dizzy and distended head, oral ulcer, habitual constipation, child *gan* accumulation, dysentery, malaria. Isolated compounds: 4879.
- T1248 *Cassia* sp. (Fabaceae). Isolated compounds: 1282.
- T1249 *Cassia* spp. (Fabaceae). Isolated compounds: 3615.
- T1250 *Cassia tora* (Fabaceae); JUE MING ZI; Sickle Senna Seed. Used part: ripe seed. TCM Effects: See *Cassia obtusifolia*. TCM Indications: See *Cassia obtusifolia*. Isolated compounds: 967, 1514, 2008, 3284, 3598, 3612, 3613, 3615, 3617, 6776, 6777, 6779, 8644, 8645, 8649, 8696, 15791, 15900, 15908, 17247, 17250, 18759, 19041, 19042, 21452, 21455.
- T1251 *Cassytha filiformis* (Lauraceae); WU YE TENG; Filiform Cassytha. Used part: herb. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin. TCM Indications: Common cold with fever, heat strangury, stone strangury, damp-heat jaundice, diarrhea, dysentery, hemoptysis, nosebleed(epistaxis), wind-fire eye, knocks and falls, bleeding due to external injury, ulcerating sores, burns and scalds, scab and *lai*. Isolated compounds: 585, 3293, 3295, 5417, 6632, 12574, 15431.
- T1252 *Cassytha glabella* (Lauraceae); WU MAO WU GEN TENG; Glabrous Cassytha\*. Isolated compounds: 3294.
- T1253 *Cassytha melantha* (Lauraceae); HEI HUA WU GEN TENG; Blackflower Cassytha\*. Isolated compounds: 3294.
- T1254 *Castanea mollissima* (Fagaceae); BAN LI; Chinese Chestnut. Used part: kernel. TCM Effects: To boost *qi* and fortify spleen, supplement kidney and strengthen sinews, quicken blood and disperse swelling, stanch bleeding. TCM Indications: Spleen vacuity diarrhea, stomach reflux vomiting, limp aching in legs and knees, sinew and bone wound with swelling pain, scrofula, blood ejection, spontaneous external bleeding, bloody stool. Isolated compounds: 3297, 3298, 11482, 19277, 20257, 20389, 22435.
- T1256 *Castanea mollissima* (Fagaceae); LI SHU PI; Chinese Chestnut Bast. Used part: bast. TCM Effects: To resolve toxin and disperse swelling, promote astriction and stanch bleeding. TCM Indications: Erysipelas, *lai*, mouth sore, lacquer sore, knocks and falls. Isolated compounds: 7441, 15372, 22246, 22435.
- T1255 *Castanea sativa* (Fagaceae); OU ZHOU LI; Spanish Chestnut. Isolated compounds: 9202.
- T1257 *Castilla elastica*. Isolated compounds: 9336, 16958, 16959.
- T1258 *Casuarina equisetifolia* (Casuarinaceae); MU MA HUANG; Horsetail Beefwood. Used part: tender branchlet-leaf or bark. TCM Effects: To diffuse lung and suppress cough, move *qi* and relieve pain, warm center and check diarrhea, disinhibit damp. TCM Indications: Common cold with fever, cough, mounting *qi*, abdominal pain, diarrhea, dysentery, inhibited urination, beriberi. Isolated compounds: 3040, 4149, 4150, 4155, 4156, 4177, 4178, 5571, 11642, 14454.
- T1259 *Casuarina stricta* (Casuarinaceae); XIAO MU MA HUANG; Small Beefwood\*. Isolated compounds: 16765.
- T1260 *Catalpa bignonioides* (Bignoniaceae); MEI GUO ZI; Southern Catalpa. Isolated compounds: 3307.
- T1261 *Catalpa ovata* (Bignoniaceae); ZI BAI PI; Ovate Catalpa Bast. Used part: bast. TCM Effects: To clear heat and disinhibit damp, downbear counterflow and check vomiting, kill worms and relieve itch. TCM Indications: Damp-heat jaundice, sore and scab, eczema, itchy skin. Isolated compounds: 3307, 4135, 5188, 7768, 9455, 20566.
- T1262 *Catalpa ovata* (Bignoniaceae); ZI MU; Ovate Catalpa. Used part: wood. TCM Effects: To promote vomiting, relieve pain. TCM Indications: Pain wind in limbs, cholera. Isolated compounds: 2004, 3305, 3306, 12502, 15256, 15257, 15258, 15259, 15260, 15261.
- T1263 *Catalpa ovata* (Bignoniaceae); ZI SHI; Ovate Catalpa Fruit. Used part: fruit. TCM Effects: To disinhibit water and disperse edema. TCM Indications: Inhibited urination, edema, ascites. Isolated compounds:

- 3304, 3307.
- T1264 *Catalpa ovata* (Bignoniaceae); ZI YE; Ovate Catalpa Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, kill worms and relieve itch. TCM Indications: Infant ardent fever, scab sore, itchy skin. Isolated compounds: 3307, 4152, 4153, 4171, 4172, 4173, 4174, 4175, 4176, 5767, 6363, 7446, 9821, 9828, 10443, 14497, 16277, 16281.
- T1265 *Catalpa speciosa* (Bignoniaceae); HUANG JIN SHU; Northern Catalpa. Isolated compounds: 3307.
- T1266 *Catha edulis* (Celastraceae); QIAO CHA; Khat. Used part: leaf. TCM Effects: To clear heat, resolve toxin, raise spirit, allay thirst. Isolated compounds: 3326, 3327, 15789, 17862.
- T1267 *Catharanthus lanceus* (Apocynaceae); JIAN ZHUANG CHANG CHUN HUA; Lanceolate Periwinkle\*. Isolated compounds: 12734.
- T1268 *Catharanthus longifolius* (Apocynaceae); CHANG YE CHANG CHUN HUA; Longleaf Periwinkle\*. Isolated compounds: 3321, 12734, 22498, 22499.
- T1269 *Catharanthus ovalis* (Apocynaceae); LUAN YUAN CHANG CHUN HUA; Oval Periwinkle\*. Isolated compounds: 3321, 12734, 22491, 22498, 22499.
- T1270 *Catharanthus pusillus* (Apocynaceae); XI XIAO CHANG CHUN HUA; Slender Periwinkle\*. Isolated compounds: 12734, 22498.
- T1271 *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*] (Apocynaceae); CHANG CHUN HUA; Madagascar Periwinkle. Used part: whole herb. TCM Effects: To resolve toxin, clear heat and calm liver, anticancer. TCM Indications: Hypertension, swelling toxin of welling abscess and sore, scalds. Isolated compounds: 618, 783, 823, 1002, 1111, 3320, 3321, 3322, 3323, 4080, 4709, 4943, 5716, 5737, 7839, 7840, 8905, 11083, 11084, 11085, 11489, 11718, 12732, 12733, 12734, 12944, 12945, 12946, 12947, 12950, 14889, 16921, 16966, 17555, 18073, 18918, 19762, 20000, 20503, 20564, 20578, 20580, 21055, 22486, 22487, 22488, 22489, 22490, 22491, 22493, 22497, 22498, 22499, 22500, 22501.
- T1272 *Caulerpa sertularioides* (Caulerpaceae); BANG YE JUE ZAO; Howe. Isolated compounds: 19776.
- T1273 *Caulophyllum* spp. (Berberidaceae). Isolated compounds: 12642.
- T1274 *Cayaponia tayuya* (Cucurbitaceae); TA YOU XIE GUA; Taiuia Root\*. Isolated compounds: 4328, 5573.
- T1275 *Cayratia japonica* (Vitaceae); WU LIAN MEI; Japanese Cayratia. Used part: whole herb or root. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Swollen welling abscess, clove sore, epidemic parotitis, erysipelas, wind-damp pain, jaundice, dysentery, hematuria, white turbidity. Isolated compounds: 3344, 9500.
- T1276 *Ceanothus integerrimus* (Rhamnaceae); QUAN YUAN YE MEI ZHOU CHA; Deerbrush. Isolated compounds: 11092.
- T1277 *Cedrela odorata* (Meliaceae); YAN YANG CHUN; Cigarbox Cedrela. Isolated compounds: 15992.
- T1278 *Cedrela sinensis* (Meliaceae); ZHONG GUO YANG CHUN; Chinese Cedrela\*. Used part: leaf. TCM Effects: To dispel summerheat and transform damp, resolve toxin, kill worms. TCM Indications: Summerheat-damp and damage center, nausea and vomiting, inappetence, diarrhea, dysentery, swelling toxin of welling abscess and flat abscess, scabies, bald white scalp sore. Isolated compounds: 9927, 10544, 16301, 16397, 16398.
- T1279 *Cedrelopsis gracilis* (Pinaceae). Isolated compounds: 3347, 3348.
- T1280 *Cedrelopsis grevei* (Pinaceae). Isolated compounds: 2599, 3349, 14223, 15721, 19540.
- T1281 *Cedrus atlantica* (Pinaceae); BEI FEI XUE SONG; Atlas Cedar. Isolated compounds: 5284, 5295, 5313, 6897, 9747.
- T1282 *Cedrus deodara* (Pinaceae); XUE SONG; Deodar Cedar. Used part: leaf and wood. TCM Effects: To clear heat and disinhibit damp, stanch bleeding and dissipate stasis. TCM Indications: Dysentery, intestinal wind bleeding, edema, wind-damp impediment pain, leprosy. Isolated compounds: 932, 3394, 9541, 11315, 20987.
- T1283 *Cedrus* sp. (Pinaceae). Isolated compounds: 1074.
- T1284 *Ceiba pentandra* (Bombacaceae); JI BEI; Kapok Ceiba. Isolated compounds: 10798, 11452, 11454, 22358, 22359.
- T1285 *Celastrus angulatus* (Celastraceae); DIAO GAN MA; Angled Bittersweet. Used part: root or root cortex. TCM Effects: To dispel wind and eliminate damp, quicken blood and regulate menstruation, resolve toxin and kill worms. TCM Indications: Wind-damp impediment pain, swelling pain from fracture, amenorrhea, ulcerating sores, tinea capitis, pudendal itch. Isolated compounds: 3536, 3537, 5300, 5312, 9043, 12336, 12337, 12338, 12339, 15534, 15535, 15536, 15537, 16817, 21025, 21517, 21520, 21524, 21525, 21526.
- T1286 *Celastrus flagellaris* (Celastraceae); CI NAN SHE TENG; Hookedspine Bittersweet. Used part: root, fruit or stem. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, numbness in limbs, knocks and falls, amenorrhea, dysentery, welling abscess and flat abscess, poisonous snake bite. Isolated compounds: 3367, 3369, 9717.
- T1287 *Celastrus hypoleucus* (Celastraceae); MIAN TENG; Pale Bittersweet. Used part: root. TCM Effects: To transform stasis and disperse swelling. TCM Indications: Wound swelling from knocks and falls. Isolated compounds: 12018, 18387.
- T1288 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (Celastraceae); NAN SHE TENG; Oriental Bittersweet. Used part: stem vine. TCM Effects: To dispel wind and eliminate damp, free menstruation and relieve pain, quicken blood and resolve toxin. TCM Indications: Painful joints due to rheumatism, numbness in limbs, paralysis, headache, toothache, mounting *qi* [=hernia], dysmenorrhea, menstrual block, infant fright wind, sprain from knocks and falls, dysentery, sand, zoster. Isolated compounds: 6819, 6853, 6865.
- T1289 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (Celastraceae); NAN SHE TENG GEN; Oriental Bittersweet Root. Used part: root. TCM Effects: To dispel wind and overcome damp, move *qi* and dissipate blood, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, painful swelling from knocks and falls, amenorrhea, headache, lumbago, mounting *qi*, dysentery, intestinal wind bleeding, swelling toxin of welling abscess and flat abscess, burns and scalds, poisonous snake bite. Isolated compounds: 3362, 3363, 3364, 3365, 3366, 3368, 6766, 13090, 13095, 13096, 13623, 16027, 16045, 16162, 16163, 16164, 16165, 16166, 16167.
- T1290 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (Celastraceae); NAN SHE TENG YE; Oriental Bittersweet Leaf. Used part: leaf.

- TCM Effects:** To dispel wind and eliminate damp, resolve toxin and disperse swelling, quicken blood and relieve pain. **TCM Indications:** Wind-damp impediment pain, swelling of sores and boils, zoster, eczema, knocks and falls, snake or insect bites. **Isolated compounds:** 6819, 12060, 12083, 18352, 18367.
- T1291 *Celastrus orbiculatus* [Syn. *Celastrus articulatus*] (Celastraceae); NAN SHE TENG GUO; Oriental Bittersweet Fruit. **Used part:** fruit. **TCM Effects:** To nourish heart and quiet spirit, harmonize blood and relieve pain. **TCM Indications:** Palpitation and insomnia, amnesia and heavy dreams, toothache, pain in sinews and bones, numbness in lumbus and leg, painful wound from knocks and falls. **Isolated compounds:** 131, 132, 155, 292, 5285, 5292.
- T1292 *Celastrus paniculatus* (Celastraceae); DENG YOU TENG ZI; Panicled Bittersweet Seed. **Used part:** seed. **TCM Effects:** To dispel wind and relieve pain, free stool, promote vomiting. **TCM Indications:** Wind-damp impediment pain, constipation, food accumulation and distending pain in stomach duct. **Isolated compounds:** 3361, 5286, 13421, 13422, 21024, 21522.
- T1293 *Celastrus scandens* (Celastraceae); MEI ZHOU NAN SHE TENG; American Bittersweet. **Isolated compounds:** 3368.
- T1294 *Celastrus stephanotifolius* (Celastraceae). **Isolated compounds:** 3362, 3363, 13090, 16027.
- T1295 *Celastrus strigillosus* (Celastraceae); CU MAO NAN SHE TENG; Hirsute Bittersweet\*. **Isolated compounds:** 3368.
- T1296 *Celosia argentea* (Amaranthaceae); QIANG XIANG; Feather Cockscomb. **Used part:** seed. **TCM Effects:** To dispel wind-heat, clear liver fire, brighten eyes and eliminate eye screens. **TCM Indications:** Red eyes with gall, eye screen, dizziness and dim vision, hypertension, nosebleed(epistaxis), wind-heat itching of skin, sore and lichen. **Isolated compounds:** 3384, 13179, 13180, 19983.
- T1297 *Celosia cristata* (Amaranthaceae); JI GUAN ZI; Common Cockscomb Seed. **Isolated compounds:** 12569, 12891, 12893, 15203, 16066, 18656, 20280, 22554.
- T1299 *Celosia cristata* (Amaranthaceae); JI GUAN HUA; Common Cockscomb Flower. **Used part:** inflorescence. **TCM Effects:** To cool blood and stanch bleeding, check discharge, check diarrhea. **TCM Indications:** Bleeding, vaginal discharge, diarrhea, dysentery. **Isolated compounds:** 1013, 2319.
- T1298 *Celtis philippinensis* (Ulmaceae); FEI LV BIN PIAO SHU; Philippine Nettle. **Isolated compounds:** 7784, 19920.
- T1300 *Celtis* sp. (Ulmaceae). **Isolated compounds:** 19545.
- T1301 *Centaurea aspera* ssp. *aspera* (Asteraceae); CU CAO SHI CHE JU; Rough Star Thistle. **Isolated compounds:** 14113, 14514, 16351.
- T1302 *Centaurea aspera* subsp. *stenophylla* (Asteraceae); XIA YE CU CAO SHI CHE JU; Narrow Rough Star Thistle\*. **Isolated compounds:** 14113, 14514, 16351.
- T1303 *Centaurea attica* ssp. *attica* (Asteraceae). **Isolated compounds:** 206, 357, 2002, 3853, 6030, 9760, 13416, 14312.
- T1304 *Centaurea bracteata* (Asteraceae); BAO PIAN SHI CHE JU; Bracteole Centaurea\*. **Isolated compounds:** 2585, 3387, 3398.
- T1305 *Centaurea cyanus* (Asteraceae); SHI CHE JU; Cornflower. **Used part:** whole herb, ray flower. **TCM Effects:** to clear heat and resolve toxin, quicken blood and disperse swelling, brighten eyes (whole herb), disinhibit urine (flower). **Isolated compounds:** 3392, 3393, 4451, 11327, 14998, 14999.
- T1306 *Centaurea nicolai* (Asteraceae); NI GU LA SHI CHE JU; Nicola Centaurea\*. **Isolated compounds:** 504, 4712, 19193.
- T1307 *Centaurea pseudoscabiosa* ssp. *pseudoscabiosa* (Asteraceae); DONG AN NA TUO LI YA SHI CHE JU; East-Anatolia Centaurea\*. **Isolated compounds:** 2105, 3601, 17406.
- T1308 *Centaurea* sp. (Asteraceae). **Isolated compounds:** 3635, 19122.
- T1309 *Centaurea thessala* ssp. *drakiensis* (Asteraceae). **Isolated compounds:** 206, 357, 3853, 6030, 9759, 10082, 14312.
- T1310 *Centaureum spicatum* (Gentianaceae); SUI ZHUANG BAI JIN HUA; Spicate Centaureum\*. **Isolated compounds:** 18400, 18401, 18402, 18403.
- T1311 *Centella asiatica* (Apiaceae); JI XUE CAO; Asiatic Pennywort. **Used part:** whole herb with root. **TCM Effects:** To clear heat and disinhibit damp, resolve toxin and disperse swelling, lower blood pressure. **TCM Indications:** Sand *qi* abdominal pain, summerheat-heat diarrhea, dysentery, damp-heat jaundice, sand strangury, blood strangury, blood ejection, spontaneous external bleeding, red eyes, swollen throat, wind papules, scab and lichen, swelling toxin of clove welling abscess, knocks and falls, hypertension. **Isolated compounds:** 1853, 1854, 1855, 2586, 3395, 3396, 3397, 11738, 13336, 13337, 13338, 19460.
- T1312 *Centipeda minima* (Asteraceae); E BU SHI CAO; Small Centipeda. **Used part:** herb with flower. **TCM Effects:** To free nasal orifices, relieve cough. **TCM Indications:** Wind-cold common cold, cough with profuse phlegm, nasal congestion, deep-source nasal congestion and runny nose. **Isolated compounds:** 1345, 1749, 2602, 6402, 18376, 20369, 20708.
- T1313 *Centranthus longiflorus* ssp. *longiflorus* (Valerianaceae); CHANG HUA XIE CAO; Longflower Valerian\*. **Isolated compounds:** 5185, 5186.
- T1314 *Centranthus* spp. (Valerianaceae). **Isolated compounds:** 22312.
- T1315 *Cephaelis ipecacuanha* (Rubiaceae); TU GEN; Ipecacuanha. **Used part:** root. **TCM Effects:** To dispel phlegm, effuse sweat, promote vomiting, disinhibit gallbladder. **TCM Indications:** Dysentery. **Isolated compounds:** 3400, 6772, 22098.
- T1316 *Cephalanthus occidentalis* (Rubiaceae); FENG XIANG SHU YE; Common Butterbush. **Used part:** leaf or bud. **TCM Effects:** To clear heat and resolve toxin, contract damp and relieve itch. **TCM Indications:** Itching sore of skin, heaven-borne sore, foot rot, knocks and falls, toothache, dysentery, enteritis. **Isolated compounds:** 1458, 9553, 18827.
- Cephalanthus pilulifera* = *Adina pilulifera*
- T1317 *Cephalotaxus drupacea* (Cephalotaxaceae); HE GUO CU FEI; Drupaceous Plumyew\*. **Isolated compounds:** 9609.
- T1318 *Cephalotaxus fortunei* (Cephalotaxaceae); SAN JIAN SHAN; Fortune Plumyew. **Used part:** branchlet-leaf. **TCM Effects:** Anticancer. **TCM Indications:** Carcinoma of stomach, carcinoma of rectum, carcinoma of lung, carcinoma of esophagus, lymphatic sarcoma, leukaemia. **Isolated compounds:** 348, 1030, 1270, 1476, 3401, 3403, 3404, 3405, 3406, 3407, 3602, 3947, 5066, 5160, 5181, 6608, 6916, 6969, 7014, 7041, 7929, 8401, 9191, 9194, 9195, 9239, 9609, 9900, 9901, 9901, 9902, 11316, 11317, 11449, 11449, 14527, 14738, 15403, 19514,

- 19757, 19785, 20808, 22696, 22696.
- T1319 *Cephalotaxus hainanensis* [Syn. *Cephalotaxus mannii*] (Cephalotaxaceae); HAI NAN CU FEI; Hainan Plumyew. Used part: branchlet and bark. TCM Effects: Anticancer. TCM Indications: Carcinoma. Isolated compounds: 3402, 3404, 5066, 5181, 6608, 7014, 9191, 9194, 9195, 9239, 9609, 11449, 20811.
- T1320 *Cephalotaxus harringtonia* (Cephalotaxaceae); RI BEN CU FEI; Japanese Plumyew. Isolated compounds: 3404, 5181, 8401, 9239, 9609, 11449, 22696.
- T1321 *Cephalotaxus harringtonia* var. *drupacea* (Cephalotaxaceae); CHANG GENG CU FEI; Longstalk Plumyew\*. Isolated compounds: 7, 5467, 5747, 7764, 9744, 20465.
- T1322 *Cephalotaxus oliveri* (Cephalotaxaceae); BI ZI CU FEI; Oliver Plumyew. Used part: Branchlet-leaf and seed. TCM Effects: Anticancer. TCM Indications: Carcinoma. Isolated compounds: 9239, 16086.
- T1323 *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*] (Cephalotaxaceae); ZHONG GUO CU FEI ZHI YE; Chinese Plumyew Branch-leaf. Used part: branchlet-leaf. TCM Effects: Anticancer. TCM Indications: Carcinoma. Isolated compounds: 3404, 5066, 5181, 6608, 7041, 9194, 9239, 9609, 9901, 11449, 22696.
- T1324 *Cephalotaxus sinensis* [Syn. *Cephalotaxus harringtonia* var. *sinensis*] (Cephalotaxaceae); ZHONG GUO CU FEI ZI; Chinese Plumyew Seed. Isolated compounds: 9194, 11449.
- T1325 *Cephalotaxus wilsoniana* (Cephalotaxaceae); TAI WAN CU FEI; Wilson Plumyew. Isolated compounds: 1476, 1492, 3404, 7041, 7042, 7043, 9194, 11449, 11600, 14614, 20465, 20625, 20626, 20627, 21073, 21938, 22696.  
*Cerasus humilis* = *Prunus humilis*  
*Cerasus japonica* = *Prunus japonica*
- T1326 *Ceratonia siliqua* (Fabaceae); CHANG JIAO DOU; Carob. Isolated compounds: 832, 18265.
- T1327 *Ceratostigma minus* (Plumbaginaceae); XIAO JIAO ZHU HUA; Creeping Ceratostigma, Creeping Bluesnow. Used part: root. TCM Effects: To dispel wind-damp, free channels and network vessels, relieve pain. TCM Indications: Wind-damp numbness, pain in stomach duct, abdomen and rib-side, knocks and falls, fracture, angitis, parotitis. Isolated compounds: 17569.
- T1328 *Ceratostigma plumbaginoides* (Plumbaginaceae); JIAO ZHU HUA; Blue Ceratostigma, Blue Bluesnow. Used part: root. TCM Effects: See *Ceratostigma willmottianum*. TCM Indications: See *Ceratostigma willmottianum*. Isolated compounds: 17568.
- T1329 *Ceratostigma willmottianum* (Plumbaginaceae); ZI JIN LIAN; Willmott Ceratostigma. Equivalent plant: *Ceratostigma plumbaginoides*. Used part: root. TCM Effects: To move *qi*, quicken blood, settle pain. TCM Indications: Knocks and falls, fracture. Isolated compounds: 17568.
- T1330 *Cerbera manghas* (Apocynaceae); NIU XIN QIE ZI; Common Cerberustree. Used part: kernel. TCM Indications: Anesthesia. Isolated compounds: 349, 526, 1389, 1390, 3416, 3417, 4775, 13479, 15494, 20671, 21326.
- T1331 *Cerbera odollam* (Apocynaceae); AO DAO LA MU HAI MANG GUO; Odollam Cerberustree\*. Isolated compounds: 349, 3416, 3429, 15494, 15495, 21325, 21326.
- T1332 *Cercidiphyllum japonicum* (Cercidiphyllaceae); RI BEN LIAN XIANG SHU; Japanese Katsura-tree. Used part: ripe fruit. TCM Effects: To dispel wind and settle fright, check tetany. TCM Indications: Infant fright wind, convulsion with cold limbs. Isolated compounds: 1074, 3418.
- T1333 *Cercidiphyllum japonicum* var. *sinense* (Cercidiphyllaceae); LIAN XIANG SHU; Katsura-tree. Isolated compounds: 3318.
- T1334 *Cereus pectenaboriginum* (Cactaceae). Isolated compounds: 16746.
- T1335 *Ceriops decandra* (Rhizophoraceae); SHI XIONG RUI JIAO GUO MU; Ten-stamen Ceriops\*. Isolated compounds: 3423, 3424, 3425, 3426, 3427, 3428.
- T1336 *Ceriops tagal* [Syn. *Rhizophora tagal*] (Rhizophoraceae); JIAO GUO MU; Common Ceriops. Used part: bark. TCM Effects: To resolve toxin, stanch bleeding, close sores. TCM Indications: Bleeding due to external injury, ulcerating sores. Isolated compounds: 20600, 20601, 20602, 20603, 20604, 20605, 20606, 20607.
- T1337 *Cervus nippon*; *Cervus elaphus* (Cervidae); LU RONG; Hairy Antler. Used part: non-ossifying young horn of male deer or stag. TCM Effects: To supplement kidney and invigorate *yang*, boost essence and blood, strengthen sinews and bones, regulate thoroughfare and controlling vessels, draw sore toxin. TCM Indications: Impotence and emission, infertility due to uterus cold, marked emaciation, thrombocytopenia, septicemia, fatigued spirit, aversion of cold, dizziness, tinnitus and deafness, aching pain in lumbus and back, limp wilting sinew and bone, flooding and spotting with vaginal discharge, enduring *yin* flat abscess. Isolated compounds: 626, 3585, 7383, 7384, 7387, 8076, 8753, 10913, 17954, 18656.
- T1338 *Cestrum nocturnum* (Solanaceae); YE XIANG SHU; Nightblooming Cestrum. Used part: leaf. TCM Effects: To clear heat and disperse swelling. TCM Indications: Mammary welling abscess, welling abscess and sores. Isolated compounds: 1177, 5982, 5983, 6128, 6129, 6130, 6447, 7521, 8657, 8658, 8659, 8660, 8693, 8695, 8698, 8748, 10722, 10727.
- T1339 *Cestrum parqui* (Solanaceae); PA KE YE XIANG SHU; Parqui Cestrum. Isolated compounds: 5956, 5957, 5958, 7079, 7123, 10366, 10367, 10368, 10369, 10370, 10371, 11583, 15967, 20215, 21124, 21753.
- T1340 *Cestrum sendtnerianum* (Solanaceae). Isolated compounds: 6124, 6125, 6126, 6127, 6131.
- T1341 *Cetraria islandica* (Parmeliaceae); BING DAO YI; Iceland Moss. Used part: lichen. TCM Effects: To regulate digestive system, increase appetite. Isolated compounds: 17979.
- T1342 *Chaenomeles lagenaria* [Syn. *Chaenomeles speciosa*] (Rosaceae); QIU MU GUA; Common Floweringquince. Used part: fruit. TCM Effects: To soothe sinews and quicken network vessels, harmonize stomach and transform damp. TCM Indications: Wind-damp impediment pain, aching and weightiness of limbs, hypertonicity of sinews and vessels, vomiting and diarrhea with cramp, beriberi. Isolated compounds: 530, 2978, 3594, 4439, 9717, 16050, 16785.

- T1343 *Chaenomeles sinensis* (Rosaceae); MU GUA; Chinese Floweringquince. Used part: fruit. TCM Effects: To harmonize stomach and soothe the sinews, dispel wind-damp, disperse phlegm and allay thirst. TCM Indications: Vomiting and diarrhea with cramp, wind-damp impediment pain, cough and abundant phlegm, diarrhea, dysentery, painful wound from knocks and falls, beriberi with edema. Isolated compounds: 8621, 16050, 22270.
- T1344 *Chaetomium quadrangulatum* SI LENG JIAO MAO KE JUN. Isolated compounds: 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450.
- T1345 *Chaetomium thielavioideum*. Isolated compounds: 3439.
- T1346 *Chaetomorpha basiretorsa* LV ZAO JI GEN YING MAO ZAO. Isolated compounds: 4361.  
*Chalcas paniculata* = *Murraya paniculata*
- T1347 *Chamaecyparis formosensis* (Cupressaceae); HONG GUI; Formosan False Cypress. Isolated compounds: 4234, 5170, 10300, 10301, 10372, 10373, 10575, 10657, 13646, 14679.
- T1348 *Chamaecyparis nootkatensis* (Cupressaceae); HUANG BIAN BAI; Yellow Cedar. Isolated compounds: 15705.
- T1349 *Chamaecyparis obtusa* (Cupressaceae); RI BEN BIAN BAI; Hinoki False Cypress. Isolated compounds: 4310, 9546, 11353.
- T1350 *Chamaecyparis pisifera* (Cupressaceae); RI BEN HUA BAI; Sawara False Cypress. Isolated compounds: 1476, 1764, 11353, 14680, 17371, 17486, 17487, 17488, 17489, 17490, 17491, 19428, 19429.
- T1351 *Chamaecyparis* spp. (Cupressaceae). Isolated compounds: 15664.
- T1352 *Chamaenerion angustifolium* [Syn. *Epilobium angustifolium*] (Onagraceae); HONG KUAI ZI; Great Willowherb (Firewood). Used part: herb. TCM Effects: To disinhibit water and percolate damp, rectify *qi* and disperse swelling, quicken blood and regulate menstruation. TCM Indications: Edema, diarrhea, food accumulation distention and fullness, menstrual disorder, galactostasis, scrotal enlargement, itch-pain in sore and papules. Isolated compounds: 4088, 6757, 8095, 10887, 11642, 16011, 16050, 18358, 18371, 18411, 21392.  
*Championella japonica* = *Strobilanthes japonicus*
- T1353 *Changium smyrnioides* (Apiaceae); MING DANG SHEN; Medicinal Changium. Used part: root. TCM Effects: To moisten lung and transform phlegm, nourish *yin* and harmonize stomach, resolve toxin. TCM Indications: Lung heat cough, vomiting nausea, reduced food intake with dry mouth, anemia, dizziness, leukorrhea, clove toxin sores. Isolated compounds: 1048, 11503, 11574, 15515, 20369, 20444.
- T1354 *Chartolepis intermedia* (Asteraceae); BO LIN JU; Intermediate Chartolepis. Isolated compounds: 9015.
- T1355 *Chasmanthera* spp. (Menispermaceae). Isolated compounds: 15751.
- T1356 *Cheiranthus cheiri* (Brassicaceae); GUI ZHU XIANG; Common Wallflower. Used part: flower. TCM Effects: To moisten intestines and free stool, free menstruation. TCM Indications: Constipation, menstrual disorder, amenorrhea, dysmenorrhea. Isolated compounds: 922, 7291, 8591, 11651, 11661, 22492.
- T1357 *Chelidonium majus* (Papaveraceae); BAI QU CAI; Greater Celandine. Used part: whole herb. TCM Effects: To settle pain and relieve cough, disinhibit urine and resolve toxin. TCM Indications: Pain in sensory nerve endings, pain from ulcer in digestive tract, stomachache, abdominal pain, enteritis, dysentery, chronic bronchitis, pertussis, cough, jaundice, edema, ascites, scab and lichen with swelling of sores, snake or insect bites. Isolated compounds: 930, 2303, 3498, 3499, 3500, 3501, 3502, 3507, 3508, 4032, 4290, 5708, 7250, 7820, 9568, 9600, 9903, 13880, 14133, 15659, 15664, 16302, 16473, 17983, 19284, 20133, 20168, 20416, 21061, 22158, 22732.
- T1358 *Chelidonium* spp. (Papaveraceae). Isolated compounds: 3498.
- T1359 *Chenopodium album* (Chenopodiaceae); LI; Lambsquarters Juvenile. Used part: juvenile whole herb. TCM Effects: To clear heat and dispel damp, resolve toxin and disperse swelling, kill worms and relieve itch. TCM Indications: Fever, cough, dysentery, diarrhea, abdominal pain, mounting *qi*, decayed toothache, eczema, scab and lichen, white patch wind, swelling pain of sores, poisonous insect stings. Isolated compounds: 7777, 7778, 7788, 14444, 14445, 15957.
- T1360 *Chenopodium amaranticolor* (Chenopodiaceae); XIAN SE LI; Amaranthinecolor Goosefoot\*. Isolated compounds: 1013.
- T1361 *Chenopodium ambrosioides* (Chenopodiaceae); TU JING JIE; Mexican Tea. Used part: fruiting aerial parts. TCM Effects: To dispel wind and eliminate damp, kill worms and relieve itch, quicken blood and disperse swelling. TCM Indications: Ancylostomiasis, ascariasis, oxyuria disease, head louse, eczema of skin, scab and lichen, wind-damp impediment pain, amenorrhea, dysmenorrhea, mouth and tongue sores, swelling pain in throat, knocks and falls, snake or insect bites. Isolated compounds: 1731, 1842, 4550, 12083, 12091, 13719, 13720, 13721, 13722, 17402, 20168.
- T1362 *Chenopodium botrys* (Chenopodiaceae); XIANG LI; Feathered Geranium. Isolated compounds: 1842, 7751.
- T1363 *Chenopodium championii* (Chenopodiaceae); ZONG ZHUANG HUA LI; Racemose Goosefoot\*. Isolated compounds: 19929.
- T1364 *Chenopodium murale* (Chenopodiaceae); BI SHENG LI; Mural Goosefoot\*. Isolated compounds: 12086.
- T1365 *Chiloscyphus polyanthus* (Lophocoleaceae); LIE E TAI; Polybract Split-calyx Liverwort\*. Isolated compounds: 3167, 3168, 3177, 7501, 7508.
- T1366 *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*] (Calycanthaceae); LA MEI HUA; Wintersweet Bud. Used part: flower bud. TCM Effects: To clear heat and resolve summerheat, rectify *qi* and open depression. TCM Indications: Summerheat-heat vexation and thirst, dizziness, oppression in chest due to glomus, globus hystericus, swelling pain in throat, pertussis, child measles, burns and scalds. Isolated compounds: 2273, 2550, 3002, 3527, 7734, 7944, 11025, 14632, 18342, 20805, 21549.
- T1367 *Chiococca alba* (Rubiaceae); BAI XUE GUO MU. Isolated compounds: 867, 868, 869, 870.
- T1368 *Chionodoxa luciliae* (Liliaceae); XUE GUANG HUA; Glory-of-the-snow. Isolated compounds: 1505, 1506, 1509, 7083, 7133, 7134, 7135, 7136, 7137, 19517.
- T1369 *Chionographis japonica* (Liliaceae); RI BEN BAI SI CAO; Japanese Chionographis\*. Isolated compounds: 16809.
- T1370 *Chirita micronusa* (Gesneriaceae); CHUN ZHU JU TAI; Chirita. Isolated compounds: 3432.  
*Chloranthus glaber* = *Sarcandra glabra*
- T1371 *Chloranthus japonicus* (Chloranthaceae); YIN XIAN CAO; Japanese

- Chloranthus. Used part: whole herb or root and rhizome. TCM Effects: To quicken blood and move stasis, dispel wind and eliminate damp, resolve toxin. TCM Indications: Knocks and falls, wind-damp impediment pain, wind-cold common cold, swelling toxin sores, poisonous snake bites. Isolated compounds: 8014, 11702, 19839, 19840, 19841, 19842, 19843, 19844, 19845.
- T1372 *Chloranthus serratus* (Chloranthaceae); JI JI; Serrate Chloranthus. Used part: root. TCM Effects: To quicken blood and dissipate stasis, dispel wind and relieve pain, resolve toxin and kill worms. TCM Indications: Knocks and falls, fracture, amenorrhea, wind-damp impediment pain, clove boil, scab and lichen, itchy skin, poisonous snake bite. Isolated compounds: 560, 5697, 8014, 10537, 15334, 19843, 19844.
- T1373 *Chloranthus serratus* (Chloranthaceae); JI JI JING YE; Serrate Chloranthus Stem-leaf. Used part: stem-leaf. TCM Effects: To dispel wind quicken blood, resolve toxin and relieve itch. TCM Indications: Common cold, cough, wind-damp pain, knocks and falls, welling abscess and boil, menstrual disorder [= menoxenia]. Isolated compounds: 17084, 17086.
- T1374 *Chloranthus spicatus* (Chloranthaceae); JIN SU LAN; Chulan Tree. Used part: whole herb or root and leaf. TCM Effects: To dispel wind-damp, quicken blood and relieve pain, kill worms. TCM Indications: Knocks and falls, migraine, intractable lichen. Isolated compounds: 8014, 19840.
- T1375 *Chlorella* spp. Isolated compounds: 17729.
- T1376 *Chlorophora excelsa* (Moraceae); GAO HUANG LU SANG; Iroko Fustic-tree. Isolated compounds: 3567, 10054.
- T1377 *Chlorophora* sp. (Moraceae). Isolated compounds: 15715.
- T1378 *Chlorophora tinctoria* (Moraceae); HUANG YAN MU. Isolated compounds: 13296, 17823.
- T1379 *Chlorophyllum molybdites* (Agaricaceae). Isolated compounds: 6902, 22249.
- T1380 *Chlorophytum malayense* (Liliaceae); DA YE DIAO LAN; Bigleaf Breaketplant. Isolated compounds: 3563.
- T1381 *Choerospondias axillaris* NAN SUAN ZAO; Axillary Southern Wildjujube. Used part: Fresh fruit or seed. TCM Effects: To move *qi* and quicken blood, nourish heart and quiet spirit, disperse accumulation, resolve toxin. TCM Indications: *Qi* stagnation and blood stasis, chest pain, palmus and breathe hard, neurasthenia, insomnia, bronchitis, food stagnation and abdominal fullness, diarrhea, mounting *qi* (hernia), burns and scalds. Isolated compounds: 8095.
- T1382 *Chondria armata* [Syn. *Lophura armata*] (Rhodomelaceae); RUAN GU ZAO. Used part: frond. TCM Effects: To expel worms. TCM Indications: Oxyuria disease, ascariasis. Isolated compounds: 3333, 11387, 11388, 11389, 11390, 15742, 16894.
- T1383 *Chondrodendron tomentosum* (Menispermaceae); NAN MEI FANG JI. Isolated compounds: 22091.
- T1384 *Chondrus ocelladus* (Gigartinales); JIAO CHA CAI. Used part: frond. TCM Effects: To clear heat and resolve toxin, harmonize stomach and free stool. TCM Indications: Common cold with fever and chills, mumps, swelling pain in throat, knocks and falls, pain in stomach duct, intestinal dry and constipation. Isolated compounds: 18798.
- T1385 *Chorda filum* (Chordaria); SHENG ZAO. Used part: frond. TCM Effects: To soften hardness, dispel phlegm, disinhibit urine, lower blood pressure. TCM Indications: Scrofula, goiter and carcinoma of neck, hypertension. Isolated compounds: 16860, 21639, 21869.
- T1386 *Chrozophora* spp. (Euphorbiaceae). Isolated compounds: 3551.
- T1387 *Chrysanthemum boreale* (Asteraceae); BEI YE JU; Boreal Wild Chrysanthemum. Used part: whole herb and root. TCM Effects: See *Chrysanthemum indicum*. TCM Indications: See *Chrysanthemum indicum*. Isolated compounds: 61, 251, 1476, 2547, 3689, 4135, 5314, 21350.
- T1388 *Chrysanthemum cinerariaefolium* (Asteraceae); CHU CHONG JU; Dalmatian Pyrethrum. Equivalent plant: *Chrysanthemum coccineum*. Used part: capitulum and whole herb. TCM Effects: To kill worms. TCM Indications: Scab and lichen. Isolated compounds: 3388, 3593, 3692, 18257.
- T1389 *Chrysanthemum coccineum* (Asteraceae); HONG HUA CHU CHONG JU; Pyrethrum. Used part: capitulum and whole herb. TCM Effects: See *Chrysanthemum cinerariaefolium*. TCM Indications: See *Chrysanthemum cinerariaefolium*. Isolated compounds: 18257.
- T1390 *Chrysanthemum coronarium* (Asteraceae); TONG HAO; Crowndaisy Chrysanthemum. Equivalent plant: *Chrysanthemum segetum*. Used part: stem-leaf. TCM Effects: To harmonize spleen and stomach, disperse phlegm rheum, quiet heart and spirit. TCM Indications: Spleen-stomach disharmony, urinary and fecal stoppage, cough with profuse phlegm, heat vexation and disquiet. Isolated compounds: 4079, 15135.
- T1391 *Chrysanthemum frutescens* (Asteraceae); MU TONG HAO; Marguerite. Isolated compounds: 3122.
- T1392 *Chrysanthemum indicum* (Asteraceae); YE JU; Indian Wild Chrysanthemum. Equivalent plant: *Chrysanthemum lavandulifolium*, *Chrysanthemum boreale*. Used part: whole herb and root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Common cold, trachitis, hepatitis, hypertension, dysentery, swollen welling abscess, clove sore, red eyes and distending pain, scrofula, eczema. Isolated compounds: 1789, 3237, 3592, 3594, 3595, 8753, 15705, 21350.
- T1393 *Chrysanthemum indicum* (Asteraceae); YE JU HUA; Indian Wild Chrysanthemum Flower. Used part: flower-head. TCM Effects: To lower blood pressure, clear heat and resolve toxin. TCM Indications: Hypertension, headache and dizziness, insomnia, common cold, influenza, meningitis, swollen welling abscess and clove sores, red eyes with gall. Isolated compounds: 56, 57, 61, 1492, 3551, 3594, 3597, 3674, 6453, 7283, 7284, 7582, 9218, 11021, 13137, 13147, 17097, 18345.
- T1394 *Chrysanthemum lavandulifolium* (Asteraceae); YAN XIANG JU; Lavandulaleaf Chrysanthemum. Used part: whole herb and root. TCM Effects: See *Chrysanthemum indicum*. TCM Indications: See *Chrysanthemum indicum*. Isolated compounds: 4941, 10405, 21350.
- T1395 *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*] (Asteraceae); JU HUA; Florists Chrysanthemum Flower. Used part: capitulum. TCM Effects: To course wind and clear heat, calm liver and brighten eyes, resolve toxin and disperse swelling. TCM Indications: Angina pectoris, hypertension, externally contracted wind-heat, wind warmth, fever and headache, dizziness, common cold, red eyes, red



- eyes with gall, swelling toxin of clove sore. Isolated compounds: 56, 617, 1064, 1483, 1492, 2550, 2843, 3545, 3551, 3594, 3596, 3674, 5750, 11287, 11288, 11289, 12987, 13137, 21391.
- T1396 *Chrysanthemum parthenium* (Asteraceae). Isolated compounds: 16713.
- T1397 *Chrysanthemum segetum* (Asteraceae); NAN TONG HAO; South Chrysanthemum. Used part: stem-leaf. TCM Effects: See *Chrysanthemum coronarium*. TCM Indications: See *Chrysanthemum coronarium*. Isolated compounds: 15724.
- T1398 *Chrysanthemum* sp. (Asteraceae). Isolated compounds: 7821, 19308.
- T1399 *Chrysanthemum* spp. (compositae). Isolated compounds: 9496, 16675, 17719.
- T1400 *Chrysanthemum vulgare* (Asteraceae); AI JU; Tansy. Isolated compounds: 3048.
- T1401 *Chrysobalanus icaco* (Chrysobalanaceae); YI KOU KE MEI; Coco-plum. Isolated compounds: 12748.
- T1402 *Chrysosplenium alternifolium* (Saxifragaceae); JIN YAO; Alternate-leaved Golden-saxifrage. Used part: whole herb. TCM Effects: To clear heat and disinherit damp. TCM Indications: Strangury syndrome, jaundice, bleeding. Isolated compounds: 3623.
- T1403 *Chrysosplenium grayanum* (Saxifragaceae); JIN QIAN KU YE CAO; Goldsaxifrage Herb. Used part: herb. TCM Indications: Clove sore. Isolated compounds: 3611, 3625, 3626, 14602.
- T1404 *Chrysosplenium japonicum* (Saxifragaceae); RI BEN JIN YAO; Japanese Goldsaxifrage. Isolated compounds: 3300, 3622.
- T1405 *Chrysosplenium maximowiczii* (Saxifragaceae); MA SHI JIN YAO; Maximowicz Goldsaxifrage\*. Isolated compounds: 3623.
- T1406 *Chrysosplenium nudicaule* (Saxifragaceae); ZANG YAO LUO JING JIN YAO; Naked-caule Goldsaxifrage. Used part: whole herb. TCM Effects: To clear heat and remove damp, soothe the liver and disinherit gallbladder. TCM Indications: Jaundice, pain in rib-side, concretion and conglomeration, cholecystitis, gallstones. Isolated compounds: 16798.
- T1407 *Chrysosplenium oppositifolium* (Saxifragaceae); DUI YE JIN YAO; Oppositeleaf Goldsaxifrage\*. Isolated compounds: 3623.
- T1408 *Chrysosplenium tosaense* (Saxifragaceae); SHANG ZUO ZHOU JIN YAO; Tosa Goldsaxifrage\*. Isolated compounds: 3300, 3622.
- T1409 *Chrysothamnus viscidiflorus* NIAN ZHI JIN ZHI JU. Isolated compounds: 416.
- T1410 *Chukrasia tabularis* (Meliaceae); MA LIAN; Chittagong Chickrassy. Used part: root cortex. TCM Effects: To course wind and clear heat. TCM Indications: Common cold with fever. Isolated compounds: 20581, 20582, 20583, 20584, 20585, 20586.
- T1411 *Cibotium barometz* [Syn. *Polypodium barometz*] (Dicksoniaceae); JIN MAO GOU; Scythian Lamb. Used part: rhizome. TCM Effects: To strengthen lumbus and knees, dispel wind-damp, disinherit joints. TCM Indications: Kidney vacuity lumbar pain and back rigidity, inability of legs and knees, wind-damp impediment pain, frequent urination, emission, excessive leukorrhea. Isolated compounds: 2887, 5763, 16098, 16099, 16100, 18098, 18153, 18161.
- T1412 *Cicer arietinum* (Fabaceae); HUI HUI DOU; Gram Chickpea. Used part: seed. TCM Effects: To clear heat and resolve toxin. TCM Indications: Diabetes mellitus. Isolated compounds: 2384, 2386, 4645, 7883, 8202, 9606, 11504, 12908, 13636, 14260, 17765, 18281, 20127.
- T1413 *Cicer* spp. (Fabaceae). Isolated compounds: 12908.
- T1414 *Cicerbita alpina* (Asteraceae); GAO SHAN YAN SHEN; Alpine Sowthistle. Isolated compounds: 16263.
- T1415 *Cichorium intybus* (Asteraceae); JU QU; Common Chicory. Used part: aerial parts. TCM Effects: To clear heat and resolve exterior, disinherit urine and disperse edema. TCM Indications: Damp-heat jaundice, nephritis with edema, distending pain in stomach duct, inappetence. Isolated compounds: 663, 664, 1110, 3518, 3635, 5021, 5028, 5187, 5585, 11797, 12446, 12447, 13377, 14920, 20712.
- T1416 *Cicuta virosa* (Apiaceae); DU QIN GEN; European Waterhemlock Root. Used part: root. TCM Effects: To draw out toxin, dispel stasis, relieve pain. TCM Indications: Medullitis, pain wind, wind-damp pain (external use with high toxicity). Isolated compounds: 3636, 3637, 3988, 4354, 20988.
- T1417 *Cimicifuga acerina* (Ranunculaceae); SAN MIAN DAO; Small Bugbane. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, course wind and outthrust papules, quicken blood and relieve pain, lower blood pressure. TCM Indications: Sore pharynx, swollen boil, non-eruption of macula, taxation damage, pain in lumbus and legs, knocks and falls, hypertension. Isolated compounds: 94, 353, 354, 3649, 3651, 9455, 9764, 9906, 14242, 14243, 14244, 19800.
- T1418 *Cimicifuga asiatica* (Ranunculaceae); LEI YE SHENG MA; Asica Baneberry. Isolated compounds: 9455.
- T1419 *Cimicifuga dahurica* (Ranunculaceae); XING AN SHENG MA; Dahurian Bugbane. Used part: rhizome. TCM Effects: See *Cimicifuga foetida*. TCM Indications: See *Cimicifuga foetida*. Isolated compounds: 352, 1561, 2887, 3652, 3653, 3654, 3655, 3656, 3658, 3670, 3671, 3672, 3673, 5464, 5752, 7768, 9455, 9762, 10316, 11331, 14181, 19800, 19983, 22530, 22553.
- T1420 *Cimicifuga foetida* (Ranunculaceae); SHENG MA; Bugbane. Equivalent plant: *Cimicifuga dahurica*, *Cimicifuga heracleifolia*. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, effuse exterior and outthrust papules, upbear *yang* and raise fall. TCM Indications: Prevention of ptosis, women's hormone dysfunction diseases, seasonal epidemic fire toxin, mouth sore, sore pharynx, macula, cold-heat headache, swelling toxin of welling abscess and sore, center *qi* fall, spleen vacuity diarrhea, chronic dysentery, vaginal discharge, flooding. Isolated compounds: 141, 512, 2887, 3650, 3657, 3658, 5466, 7768, 9455, 19187.
- T1421 *Cimicifuga heracleifolia* (Ranunculaceae); DA SAN YE SHENG MA; Cowparsnipleaf Bugbane. Used part: rhizome. TCM Effects: See *Cimicifuga foetida*. TCM Indications: See *Cimicifuga foetida*. Isolated compounds: 7768, 9455.
- T1422 *Cimicifuga japonica* (Ranunculaceae); RI BEN SHENG MA; Japanese Bugbane\*. Isolated compounds: 513, 3660, 5162, 14244.
- T1423 *Cimicifuga nanchuanensis* (Ranunculaceae); NAN CHUAN SHENG MA; Nanchuan Bugbane\*. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, course wind and outthrust papules, upbear *yang* and raise fall. TCM Indications: Non-eruption of macula, swelling pain in throat, taxation damage, center *qi* fall, diarrhea, knocks and falls. Isolated compounds: 9455, 15726.
- T1424 *Cimicifuga racemosa* (Ranunculaceae); ZONG ZHUANG SHENG

- MA; Racemose Bugbane\*. Isolated compounds: 414, 477, 512, 579, 3658, 3659, 3666, 3667, 3668, 3669, 5150, 5790, 9455, 9905, 13881.
- T1425 *Cimicifuga simplex* (Ranunculaceae); YE SHENG MA; Kamchatka Bugbane. Used part: rhizome. TCM Effects: To effuse exterior and outthrust papules, clear heat and resolve toxin. TCM Indications: Wind-heat common cold, child measles, heat toxin macula, swelling pain in throat, swollen welling abscess and sores, *yang* brightness headache, chronic diarrhea, prolapse of rectum, flooding and spotting, Vaginal discharge. Isolated compounds: 352, 354, 1066, 2729, 2730, 2731, 2732, 2888, 3649, 3651, 3652, 3658, 3661, 3662, 3663, 3664, 3665, 9455, 12222, 14241, 14243, 14244.
- T1426 *Cimicifuga* sp. (Ranunculaceae). Isolated compounds: 237, 238, 280, 3649, 3652, 5488, 5489, 10697.
- T1427 *Cinchona cuprea* (Rubiaceae); TONG SE JI NA SHU; Cupreous Cinchona\*. Isolated compounds: 2887.
- T1428 *Cinchona ledgeriana* (Rubiaceae); JIN JI LE; Ledger Cinchona. Equivalent plant: *Cinchona officinalis*, *Cinchona succirubra*. Used part: bark. TCM Effects: To interrupt malaria and abate fever, resolve liquor and arouse spleen. TCM Indications: Malaria, externally contracted ardent fever, drunkenness. Isolated compounds: 1680, 3599, 3675, 3682, 3684, 3685, 3686, 3687, 4004, 4373, 5522, 7003, 7004, 9738, 9739, 18407, 18421, 18422, 18423, 18424, 18425.
- T1429 *Cinchona officinalis* (Rubiaceae); ZHENG JI NA SHU; Medicinal Cinchona. Used part: bark. TCM Effects: See *Cinchona ledgeriana*. TCM Indications: See *Cinchona ledgeriana*. Isolated compounds: 9738.
- T1430 *Cinchona robusta* (Rubiaceae); CU ZHUANG JIN JI NA; Robust Cinchona\*. Isolated compounds: 18869, 18870, 18871, 18872, 18873, 18874, 18875, 18876.
- T1431 *Cinchona* sp. (Rubiaceae). Isolated compounds: 5522.
- T1432 *Cinchona* spp. (Rubiaceae). Isolated compounds: 3551.
- T1433 *Cinchona succirubra* (Rubiaceae); HONG SE JIN JI NA SHU; Redbark Cinchona. Used part: bark. TCM Effects: See *Cinchona ledgeriana*. TCM Indications: See *Cinchona ledgeriana*. Isolated compounds: 18425.
- T1434 *Cinnamomum bejolghota* [Syn. *Cinnamomum obtusifolium*; *Laurus bejolghota*] (Lauraceae); DUN YE GUI PI; Obtuseleaf Cassia Bark, Wild Cinnamon Bark. Used part: bark. TCM Effects: To dispel wind and dissipate cold, warm menstruation and quicken blood, relieve pain. TCM Indications: Bleeding due to external injury (external use), wind-cold impediment pain, lumbago, menstrual block, dysmenorrhea, painful swelling from knocks and falls, cold pain in stomach duct, abdominal pain, vacuity cold diarrhea, snake bite. Isolated compounds: 17869, 17888.
- T1435 *Cinnamomum camphora* (Lauraceae); ZHANG MU; Camphortree. Used part: wood. TCM Effects: To dispel wind and dissipate cold, warm center and rectify *qi*, quicken blood and free network vessels. TCM Indications: Wind-cold common cold, stomach cold distending pain, cold-damp vomiting and diarrhea, wind-damp impediment pain, beriberi, painful wound from knocks and falls, scab and lichen with itching. Isolated compounds: 1520, 2071, 2846, 2850, 2935, 2940, 2941, 3047, 3048, 3049, 3050, 3231, 3241, 3242, 4076, 7481, 7521, 7751, 9669, 11566, 12375, 12573, 15205, 15500, 15500, 18655, 19121, 19302, 19303.
- T1436 *Cinnamomum camphora* (Lauraceae); ZHANG SHU PI; Camphortree Bark. Used part: bark. TCM Effects: To dispel wind and eliminate damp, warm stomach and harmonize center, kill worms and cure sores. TCM Indications: Wind-damp impediment pain, pain in stomach duct, vomiting and diarrhea, leg *qi* swelling and pain, knocks and falls, scab and lichen with sore toxin, poisonous insect stings. Isolated compounds: 15902, 16884, 17869, 17876, 17890, 17893.
- T1437 *Cinnamomum camphora* (Lauraceae); ZHANG SHU YE; Camphortree Leaf. Used part: leaf. TCM Effects: To dispel wind, eliminate damp, kill worms, resolve toxin. TCM Indications: Wind-damp impediment pain, stomachache, burns and scalds, toxin swelling of sores, shank sore, scab and lichen, itchy skin, poisonous insect stings. Isolated compounds: 16333, 16334, 21954.
- T1438 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (Lauraceae); GUI ZHI; Cassiabarktree Twig. Used part: twig. TCM Effects: To dissipate cold and resolve exterior, warm channels and free network vessels, promote *yang* and transform *qi*. TCM Indications: Wind-cold exterior syndrome, cold-damp impediment pain, reversal cold of limbs, amenorrhea and dysmenorrhea, concretion and conglomeration, chest impediment, palpitation, phlegm-rheum, inhibited urination. Isolated compounds: 1263, 1264, 3693, 3695, 3696, 4140, 5665, 5763, 9908, 13678, 13882, 13882, 17869, 19983.
- T1439 *Cinnamomum cassia* [Syn. *Cinnamomum aromaticum*] (Lauraceae); ROU GUI; Cassiabarktree. Used part: bark. TCM Effects: To supplement fire and reinforce *yang*, return fire to its source, dissipate cold and relieve pain, quicken blood and free menstruation. TCM Indications: Impotence, uterus cold, cold pain in lumbus and knees, kidney vacuity asthma, *yang* vacuity dizziness, red eyes and sore pharynx, cold pain in heart and abdomen, vacuity cold vomiting and diarrhea, cold mounting, running piglet, amenorrhea, dysmenorrhea. Isolated compounds: 3693, 3695, 3726, 4140, 6857, 7430, 13678, 17869, 17876, 17878, 17888, 17890, 17893, 21923.
- T1440 *Cinnamomum glanduliferum* (Lauraceae); YUN NAN ZHANG; Nepal Camphortree. Used part: fruit or wood. TCM Effects: To dispel wind and dissipate cold, move *qi* and relieve pain. TCM Indications: Wind-cold common cold, cough, wind-damp impediment pain, distending pain in stomach duct, diarrhea. Isolated compounds: 6745, 15204.
- T1441 *Cinnamomum japonicum* (Lauraceae); GUI PI; Japanese Cinnamon. Used part: bark. TCM Effects: To warm spleen and stomach, warm liver and kidney, dispel cold and relieve pain, dissipate stasis and disperse swelling. TCM Indications: Cold pain in stomach duct and abdomen, vomiting and diarrhea, aching cold in lumbus and knees, cold mounting with abdominal pain, cold-damp impediment pain, dysmenorrhea, blood dysentery, intestinal wind, painful swelling from knocks and falls. Isolated compounds: 3693, 3695, 7521.
- T1442 *Cinnamomum loureirii* (Lauraceae); MU GUI; Loureir Cinnamon\*. Isolated compounds: 4140.
- T1443 *Cinnamomum parthenoxylum* [Syn. *Cinnamomum porrectum*] (Lauraceae); XIANG ZHANG; Yellow Cinnamon. Used part: root, bark or leaf. TCM Effects: To dispel wind and dissipate cold, warm center and relieve pain, move *qi* and quicken blood. TCM Indications:

- Wind-cold common cold, wind-damp impediment pain, stomach cold abdominal pain, diarrhea, dysentery, knocks and falls, menstrual disorder. Isolated compounds: 7521, 20988.
- T1444 *Cinnamomum tamala* (Lauraceae); SAN TIAO JIN; Tibet Cinnamon Bark. Used part: bark or leaf. TCM Effects: To warm channels and free network vessels, move *qi* and relieve pain. TCM Indications: Cold-damp impediment pain, pain in stomach duct and abdomen, dysmenorrhea, knocks and falls. Isolated compounds: 3693, 7521.
- T1445 *Cinnamomum zeylanicum* (Lauraceae); XI LAN ROU GUI; Ceylon Cinnamon. Isolated compounds: 3693, 8392, 8393, 9490, 15940, 20113, 20114.
- T1446 *Cipadessa baccifera* (Meliaceae); YA LUO CHUN; Bacciform Cipadessa. Used part: root, leaf. TCM Effects: To course wind and resolve exterior, interrupt malaria. TCM Indications: Common cold, itchy skin, malaria. Isolated compounds: 3734, 6100, 7117, 7118.
- T1447 *Cirsium japonica* var. *takaoense* (Asteraceae); TAI WAN JI; Taiwan Thistle\*. Isolated compounds: 16756.
- T1448 *Cirsium chinense* (Asteraceae); KU AO; Chinese Thistle. Used part: herb. TCM Effects: To clear heat and resolve toxin, cool blood and quicken blood. TCM Indications: Vexation and oppression due to summerheat-heat, flooding and spotting, blood ejection from knocks and falls, hemorrhoids, clove sore. Isolated compounds: 3742, 3744.
- T1449 *Cirsium japonicum* (Asteraceae); DA JI<sup>(4)</sup>; Japanese Thistle. Used part: aerial parts or root. TCM Effects: To cool blood and stanch bleeding, dispel stasis and disperse swelling. TCM Indications: Spontaneous external bleeding, blood ejection, hematuria, hematochezia, flooding and spotting, bleeding due to external injury, swelling toxin of welling abscess and sore. Isolated compounds: 1110, 1112, 1113, 9497, 16756, 20369, 20706, 20707.
- T1450 *Cirsium lineare* (Asteraceae); TIAO YE JI; Linearleaf Thistle. Used part: root or whole herb. TCM Effects: To quicken blood and dissipate stasis, resolve toxin and disperse swelling. TCM Indications: Menstrual disorder, amenorrhea, dysmenorrhea, mastitis, knocks and falls, urinary tract infection, welling abscess and boil, snake bite. Isolated compounds: 3743.
- T1451 *Cirsium setosum* [Syn. *Cerratura setosa*; *Cirsium segetum*; *Cephalanoplos segetum*] (Asteraceae); XIAO JI; Setose Thistle. Used part: whole herb or root. TCM Effects: To cool blood and stanch bleeding, clear heat and disperse swelling. TCM Indications: Coughing of blood, blood ejection, spontaneous external bleeding, hematuria, blood strangury, hematochezia, blood dysentery, flooding and spotting, bleeding due to external injury, swelling toxin of welling abscess and flat abscess. Isolated compounds: 3551, 19087, 20706.
- T1452 *Cissampelos pareira* (Menispermaceae); XI SHENG TENG; Common Cissampelos. Used part: whole herb. TCM Effects: To relieve pain, stanch bleeding, engender flesh. TCM Indications: Knocks and falls, asthma, heart disease. Isolated compounds: 2191, 3747, 3748, 4461, 9250, 9251, 9252, 11329, 14266, 15762, 15792, 16660, 16661, 16662, 18410, 21206.
- T1453 *Cissampelos pareira* var. *hirsute* (Menispermaceae); YA HU NU; Hirsute Cissampelos\*. Used part: whole herb. TCM Effects: To relieve pain, stanch bleeding, engender flesh. TCM Indications: Knocks and falls, wind-damp lumbago, heart disease. Isolated compounds: 16660.
- T1454 *Cissus pallida* (Vitaceae); CANG BAI FEN TENG; Pale Treebine\*. Isolated compounds: 16550.
- T1455 *Cistanche deserticola* (Orobanchaceae); ROU CONG RONG; Desertliving Cistanche. Equivalent plant: *Cistanche salsa*. Used part: fleshy stem. TCM Effects: To supplement kidney and invigorate *yang*, boost essence and blood, moisten intestines and free stool. TCM Indications: Impotence, infertility, backache, limp aching lumbus and knees, weakness in sinews and bones, intestinal dry and constipation. Isolated compounds: 305, 580, 815, 2156, 2318, 2356, 2446, 2449, 2564, 3749, 3750, 3752, 3753, 3754, 3755, 3757, 3758, 3759, 4680, 4830, 5159, 5189, 6343, 6353, 6422, 6472, 6720, 6952, 8277, 8768, 9359, 9360, 9378, 10141, 12916, 14435, 14525, 14693, 15134, 15669, 15671, 16252, 17093, 18221, 19983, 19996, 20280, 20444, 20555, 21541, 22093, 22094.
- T1456 *Cistanche salsa* (Orobanchaceae); YAN SHENG ROU CONG RONG; Saline Cistanche. Used part: fleshy stem. TCM Effects: See *Cistanche deserticola*. TCM Indications: See *Cistanche deserticola*. Isolated compounds: 580, 3753, 3754, 3755, 3757, 3758, 18221.
- T1457 *Cistanche* sp. (Orobanchaceae). Isolated compounds: 17080.
- T1458 *Cistanche tubulosa* (Orobanchaceae); GUAN HUA ROU CONG RONG; Tubeshaped Flower Cistanche. Isolated compounds: 618, 652, 4225, 4902, 4903, 5159, 9071, 10061, 10141, 11725, 15134, 20555, 22093, 22095, 22096, 22097, 22252.
- T1459 *Cistus parviflorus* (Cistaceae); XIAO XING HUA YAN QIANG WEI. Isolated compounds: 9423.
- T1460 *Citrullus colocynthis* (Cucurbitaceae); YAO XI GUA; Wild Gourd. Isolated compounds: 4317, 4327, 20168.
- T1461 *Citrullus ecirrhosus* (Cucurbitaceae); WU JUAN XU XI GUA; Non-cirrose Citrullus\*. Isolated compounds: 4324, 4327.
- T1462 *Citrullus naudinianus* (Cucurbitaceae); NA SHI XI GUA; Naudin Citrullus\*. Isolated compounds: 4324.
- T1463 *Citrullus* sp. (Cucurbitaceae). Isolated compounds: 4322.
- T1464 *Citrullus vulgaris* [Syn. *Citrullus lanatus*] (Cucurbitaceae); XI GUA; Watermelon. Used part: fruit. TCM Effects: To clear heat and resolve summerheat, resolve summerheat and engender liquid, disinhibit urine. TCM Indications: Summerheat-heat vexation and thirst, exuberant heat fluid damage, inhibited urination, throat impediment, mouth sore. Isolated compounds: 1046, 1048, 1063, 3774, 8826, 11752, 17264.
- T1465 *Citrullus vulgaris* [Syn. *Citrullus lanatus*] (Cucurbitaceae); XI GUA ZI REN; Watermelon Seed. Used part: seed. TCM Effects: To clear lung and transform phlegm, harmonize center and moisten intestines. TCM Indications: Hemoptysis, enduring cough, constipation. Isolated compounds: 1063.
- T1466 *Citrus aurantifolia* (Rutaceae); LAI MENG; Lime. Isolated compounds: 11716, 22781.
- T1467 *Citrus aurantium* (Rutaceae); ZHI KE; Seville Orange Unripe Fruit. Equivalent plant: *Poncirus trifoliata*. Used part: unripe fruit. TCM Effects: To break *qi* and move phlegm, harmonize stomach and disperse accumulation. TCM Indications: Phlegm stagnation in chest and diaphragm, glomus in chest, distention in rib-side, food accumulation, retching counterflow. Isolated compounds: 9458, 14796, 15286, 15635, 15882, 19784, 19929, 20434, 22044, 22976.
- T1468 *Citrus aurantium* (Rutaceae); ZHI SHI; Seville Orange Young Fruit.

- Equivalent plant: *Citrus wilsonii*, *Poncirus trifoliata*. Used part: young fruit. TCM Effects: To break *qi* and dissipate glomus, disperse phlegm and transform accumulation. TCM Indications: Shock, indigestion, ptosis of anus or uterus, cardiac failure, distention fullness in chest and abdomen, phlegm aggregation. Isolated compounds: 1497, 9458, 9964, 11493, 11716, 12847, 12987, 14796, 15286, 15404, 15656, 15657, 19929, 20552, 20670, 21185, 21913.
- T1469 *Citrus aurantium* var. *amara* (Rutaceae); DAI DAI HUA; Bitter Citrus. Used part: dried flower bud. TCM Effects: To regulate *qi*, soothe liver, harmonize stomach. TCM Indications: Oppression in chest due to glomus, distending pain in stomach duct and abdomen, vomiting, reduced food intake. Isolated compounds: 3763, 3764, 3768, 7734, 11824, 14142, 15498, 15500, 20998.
- T1470 *Citrus bergamia* (Rutaceae); XIANG NING MENG; Bergamot Orange. Isolated compounds: 2309.
- T1471 *Citrus chachiensis* (Rutaceae); GAN; Chachi Citrus. Equivalent plant: *Citrus unshiu*, *Citrus tankan*, *Citrus cultivars*, *Citrus decumana*. Used part: fruit. TCM Effects: To engender liquid and allay thirst, arouse liquor, disinhibit urine. TCM Indications: Heat vexation in chest, drunkenness, inhibited urination. Isolated compounds: no.
- T1472 *Citrus chachiensis* (Rutaceae); GAN PI; Chachi Citrus Pericarp. Equivalent plant: *Citrus tankan*. Used part: pericarp. TCM Effects: To precipitate *qi* and regulate center, transform phlegm, arouse liquor. TCM Indications: Dietary imbalance after illness, *qi* ascent with vexation and fullness, liquor damage with thirst. Isolated compounds: 4473, 9458, 14796, 20552.
- T1473 *Citrus cultivars* (Rutaceae); ZAI PEI GAN JU; Cultivated Citrus\*. Used part: fruit. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 8307.
- T1474 *Citrus decumana* (Rutaceae); ZHU LUAN; Pomelo. Used part: fruit. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 15286, 17829.
- T1475 *Citrus depressa* (Rutaceae); BIAN PING JU; Depressed Orange. Isolated compounds: 17829.
- T1476 *Citrus erythroa* (Rutaceae); ZHU JU; Red Orange. Used part: fruit. TCM Effects: See *Citrus tangemna*. TCM Indications: See *Citrus tangemna*. Isolated compounds: 3241, 4029, 9669, 15655.
- T1477 *Citrus funadoko* (Rutaceae); ZHOU CHANG JU; Funadoko Orange\*. Isolated compounds: 17829.
- T1478 *Citrus grandis* (Rutaceae); YOU<sup>(4)</sup>; Pummelo. Used part: fruit. TCM Effects: To disperse food, transform phlegm, arouse liquor. TCM Indications: Food stagnation, inappetence, drunkenness. Isolated compounds: 1497, 14142, 15279, 15282, 15286, 15882, 17705, 21185, 21913, 22195.
- T1479 *Citrus grandis* (Rutaceae); YOU HE; Pummelo Seed. Used part: seed. TCM Effects: To course liver and rectify *qi*, diffuse lung and suppress cough. TCM Indications: Mounting *qi*, lung cold cough. Isolated compounds: 4757, 15882.
- T1480 *Citrus grandis* cv. x *Citrus paradisi* (Rutaceae); YOU PU TAO YOU ZA JIAO ZHONG. Isolated compounds: 7904.
- T1481 *Citrus grandis* f. *buntan* (Rutaceae); WEN DAN YOU; Buntan Pummelo\*. Isolated compounds: 17829.
- T1482 *Citrus grandis* f. *hakunikuju* (Rutaceae); BAI YOU; White Pummelo\*. Isolated compounds: 17829.
- T1483 *Citrus grandis* var. *tomentosa* (Rutaceae); HUA ZHOU YOU; Tomentase Pummelo. Used part: maturescent exocarp. TCM Effects: To dry damp and transform phlegm, rectify *qi*, disperse food. TCM Indications: Wind-cold cough and asthma with abundant phlegm, vomiting and hiccough, non-digestion of food accumulation, distending pain in stomach duct and abdomen. Isolated compounds: 1497, 11716, 15279, 15286, 19929, 20670, 21913.
- T1484 *Citrus hassaku* (Rutaceae). Isolated compounds: 5063, 5686, 8981, 11970, 14092, 15737, 16257, 16260, 19784, 22777, 22781.
- T1485 *Citrus jambhiri* (Rutaceae). Isolated compounds: 3788, 5098, 15737, 17706, 22781.
- T1486 *Citrus junos* (Rutaceae); CHENG ZI; Fragrant Citrus. Used part: fruit. TCM Effects: To loosen chest and disinhibit *qi*, harmonize center and promote digestion, resolve liquor, resolve toxin of fish and crab. TCM Indications: Nausea and vomiting, oppression in chest and abdomen distention, goiter and tuberculosis, drunkenness. Isolated compounds: 3761, 3788, 5134, 6498, 7909, 11493, 12847, 15655, 15656, 15737, 15882, 16260, 17706, 19784, 22777.
- T1487 *Citrus junos* (Rutaceae); CHENG ZI HE; Fragrant Citrus Seed. Used part: seed. TCM Effects: To rectify *qi* and relieve pain. TCM Indications: Mounting *qi*, strangury, lumbago. Isolated compounds: 12847, 15655, 15882.
- T1488 *Citrus junos* (Rutaceae); CHENG ZI PI; Pericarp. Used part: pericarp. TCM Effects: To transform phlegm, disinhibit diaphragm, disperse food, check vomiting. TCM Indications: *Qi* stagnation in chest and diaphragm, cough with profuse phlegm, non-digestion of food accumulation, nausea and vomiting, drunkenness. Isolated compounds: 3761, 8343, 8344.
- T1489 *Citrus kinokuni* (Rutaceae); RU JU; Kinokuni Citrus. Isolated compounds: 10593, 16865, 16866.
- T1490 *Citrus limon* (Rutaceae); NING MENG; Lemon. Equivalent plant: *Citrus limonia*. Used part: fruit. TCM Effects: To engender liquid and allay thirst, dispel summerheat, quiet fetus. TCM Indications: Stomach heat fluid damage, summerheat stroke with vexation and thirst, inappetence, glomus distention in stomach duct and abdomen, lung heat dry cough, vomiting in pregnancy. Isolated compounds: 1956, 2887, 3760, 3767, 3770, 4135, 6454, 8313, 9044, 9456, 9458, 11492, 12839, 12841, 12850, 13126, 15286, 18421, 19912, 22520, 22781.
- T1491 *Citrus limon* (Rutaceae); NING MENG GEN; Lemon Root. Equivalent plant: *Citrus limonia*. Used part: root. TCM Effects: To dispel stasis and relieve pain. TCM Indications: Knocks and falls, rabid dog bite. Isolated compounds: 4134, 7768, 10640, 10641, 22781.
- T1492 *Citrus limon* (Rutaceae); NING MENG PI; Lemon Pericarp. Equivalent plant: *Citrus limonia*. Used part: pericarp. TCM Effects: To soothe stagnation and move *qi*, fortify stomach and relieve pain. TCM Indications: Blood stasis and abdominal pain, menstrual disorder, no thought of food and drink. Isolated compounds: 2011, 2012, 2455, 2887, 6454, 7768, 8313, 9458, 11650, 15286, 15404, 18344, 19912.
- T1493 *Citrus limon* (Rutaceae); NING MENG YE; Lemon Leaf. Equivalent plant: *Citrus limonia*. Used part: leaf. TCM Effects: To relieve cough and transform phlegm, rectify *qi* and harmonize stomach, check diarrhea. TCM Indications: Cough and asthma, abdominal distention,

- diarrhea. Isolated compounds: 663, 4134, 17168.
- T1494 *Citrus limonia* (Rutaceae); LI MENG; Lemonlike Citrus. Used part: fruit. TCM Effects: See *Citrus limon*. TCM Indications: See *Citrus limon*. Isolated compounds: 663, 3760, 3767, 13126, 22336, 22520.
- T1495 *Citrus limonia* (Rutaceae); LI MENG GEN; Lemonlike Citrus Root. Used part: root. TCM Effects: See *Citrus limon*. TCM Indications: See *Citrus limon*. Isolated compounds: 4133, 8307, 10608, 10642, 19912.
- T1496 *Citrus limonia* (Rutaceae); LI MENG PI; Lemonlike Citrus Pericarp. Used part: pericarp. TCM Effects: See *Citrus limon*. TCM Indications: See *Citrus limon*. Isolated compounds: 9458, 19983, 19984.
- T1497 *Citrus limonia* (Rutaceae); LI MENG YE; Lemonlike Citrus Leaf. Used part: leaf. TCM Effects: See *Citrus limon*. TCM Indications: See *Citrus limon*. Isolated compounds: 7768, 8307, 10608, 13126, 19912, 22520.
- T1498 *Citrus medica* (Rutaceae); JU YUAN; Medicinal Citron. Equivalent plant: *Citrus wilsonii*. Used part: fruit. TCM Effects: To rectify *qi* and downbear counterflow, strengthen spleen, transform phlegm. TCM Indications: Oppression in chest, pain in rib-side, distending pain in stomach duct, belching and low food intake, vomiting due to liver stomach *qi* stagnation, phlegm-damp congestion, cough with profuse phlegm. Isolated compounds: 3760, 3766, 3770, 4680, 8313, 9458, 12843, 12850, 13419, 15882, 17055, 17264, 20444.
- T1499 *Citrus medica* (Rutaceae); JU YUAN YE; Medicinal Citron Leaf. Isolated compounds: 3770, 11601.
- T1500 *Citrus medica* var. *etrog* (Rutaceae). Isolated compounds: 3788, 7913, 9643, 11970, 15737, 17706, 19540, 19542, 22195, 22781.
- T1501 *Citrus medica* var. *sarcodactylis* (Rutaceae); FO SHOU; Fleshfingered Citron. Used part: fruit. TCM Effects: To rectify *qi* and relieve pain, fortify stomach and resolve phlegm. TCM Indications: Stomachache, distention in rib-side, vomiting, dysphagia-occlusion, phlegm-rheum cough asthma. Isolated compounds: 3770, 4493, 4494, 6454, 9458, 12836, 12837, 21707, 21854.
- T1502 *Citrus nobilis* (Rutaceae); CHUAN JU; King Orange. Isolated compounds: 15635.
- T1503 *Citrus paradisi* (Rutaceae); PU TAO YOU; Grapefruit. Isolated compounds: 15286, 15705, 20434.
- T1505 *Citrus paradisi* x *Citrus tangerina* (Rutaceae); PU TAO YOU DA HONG JU ZA JIAO ZHONG. Isolated compounds: 3779, 13002.
- T1504 *Citrus reticulata* (Rutaceae); JU HE; Tangerine Seed. Used part: seed. TCM Effects: To rectify *qi* and relieve pain, resolve binds. TCM Indications: Mounting *qi*, painful swollen testes, mammary welling abscess, lumbago, bladder *qi* pain. Isolated compounds: 15655, 15882.
- T1506 *Citrus reticulata* (Rutaceae); JU PI; Tangerine Pericarp. Used part: pericarp. TCM Effects: To rectify *qi* and downbear counterflow, regulate center and increase appetite, dry damp and transform phlegm. TCM Indications: Spleen-stomach *qi* stagnation and damp obstruction, lung *qi* block, cough with profuse phlegm, mammary welling abscess, indigestion, vomiting. Isolated compounds: 2225, 2275, 2452, 3195, 3231, 3762, 3767, 3768, 4550, 4833, 5088, 6385, 7582, 7729, 9458, 9510, 9674, 10594, 10751, 10752, 10796, 11617, 11618, 11619, 11716, 12843, 12847, 12849, 13728, 15146, 15286, 15498, 15635, 15636, 15925, 15973, 15977, 16871, 16930, 17055, 17376, 19039, 19100, 19211, 19927, 19929, 19983, 20552, 20670, 20988, 20990, 20995, 20998, 21185, 21349, 21360, 21858, 21913, 22976.
- T1507 *Citrus rugulosa* (Rutaceae). Isolated compounds: 5098, 7909, 11970, 16257, 16260, 17706, 19784, 22781.
- T1508 *Citrus sinensis* (Rutaceae); TIAN CHENG; Sweet Orange. Used part: ripe fruit. TCM Effects: To move *qi*, precipitate *qi*, relieve pain, disperse distention, free milk. TCM Indications: Galactostasis. Isolated compounds: 3214, 3760, 9456, 11692, 12839, 12848, 15135, 15266, 15283, 15287, 15500, 15636, 15882, 17171, 19927, 19928, 19929, 21913, 22854.
- T1509 *Citrus* sp. (Rutaceae). Isolated compounds: 2833, 11025, 13126, 13212, 15287, 15393, 16261, 17376, 17705, 20566, 20670.
- T1510 *Citrus* spp. (Rutaceae). Isolated compounds: 12840, 12847, 15278, 17090.
- T1511 *Citrus sudachii* (Rutaceae); SU DA QI GAN JU; Sudach Citrus\*. Isolated compounds: 9564, 10958, 12847, 14524, 15882, 20448, 20449, 20450, 22768.
- T1512 *Citrus sulcata* (Rutaceae). Isolated compounds: 5098, 7909, 9643, 10710, 16257, 16260, 19540, 22195.
- T1513 *Citrus tachibana* (Rutaceae); LI HUA JU; Japanese Tachibana. Isolated compounds: 5098, 11970, 12220, 16260, 17706, 19784, 21499, 22781.
- T1514 *Citrus tamurana* (Rutaceae). Isolated compounds: 3788, 5098, 7203, 8980, 9643, 10710, 14092, 15737, 16257, 16260, 17706, 19540, 21499, 22777, 22781.
- T1515 *Citrus tangemna* (Rutaceae); FU JU; Blessing Citrus\*. Equivalent plant: *Citrus erythroa*. Used part: fruit. TCM Effects: To moisten lung and engender liquid, rectify *qi* and harmonize stomach. TCM Indications: Diabetes mellitus, retching counterflow, *qi* bind in chest and diaphragm. Isolated compounds: 3241, 4029, 9669, 15655, 15882.
- T1516 *Citrus tankan* (Rutaceae); JIAO GAN; Tankan Citrus. Used part: fruit. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 9458, 11716, 15635, 19929, 20369, 21185, 22781.
- T1517 *Citrus tankan* (Rutaceae); JIAO GAN PI; Tankan Citrus Pericarp. Used part: pericarp. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 9458, 15635.
- T1518 *Citrus unshiu* (Rutaceae); WU HE MI JU; Satsuma. Used part: fruit. TCM Effects: See *Citrus chachiensis*. TCM Indications: See *Citrus chachiensis*. Isolated compounds: 9456, 9458, 11691, 15279, 15286, 15404.
- T1519 [*Citrus unshiu* x *Citrus sinensis*] x *Citrus iyo* (Rutaceae); SAN ZHONG JU ZA JIAO ZHONG [xx. Isolated compounds: 22194.
- T1520 *Citrus wilsonii* (Rutaceae); XIANG YUAN; Wilson Citron. Used part: fruit. TCM Effects: See *Citrus medica*. TCM Indications: See *Citrus medica*. Isolated compounds: 2017, 3770, 13127, 15882, 22920.
- T1521 *Citrus wilsonii* (Rutaceae); XIANG YUAN ZHI SHI; Wilson Orange Young Fruit. Used part: young fruit. TCM Effects: See *Citrus aurantium*. TCM Indications: See *Citrus aurantium*. Isolated compounds: 14796.
- T1522 *Citrus yuko* (Rutaceae); YU KE GAN JU; Yuko Citrus\*. Isolated compounds: 15882.
- T1523 *Cladonia chlorophaea* (Cladoniaceae); LA BA FEN SHI RUI. Isolated compounds: 16571.
- T1524 *Cladonia convoluta* (Cladoniaceae); ZONG JUAN SHI RUI. Isolated

- compounds: 7998, 14697, 17970, 22281.
- T1525 *Cladonia fallax* (Cladoniaceae); JIN SHUA BA; Fallax Cladonia Lichen. Used part: lichen. TCM Effects: To relieve pain, calm. TCM Indications: Epilepsy, schizophrenia, neurasthenia, dizziness and dim vision. Isolated compounds: 7996, 7998, 22282.
- T1526 *Cladonia rangiferina* (Cladoniaceae); SHI RUI; Reindeer Moss. Used part: herb. TCM Effects: To clear heat, moisten dryness, cool liver, transform phlegm, disinhibit damp. TCM Indications: heat vexation and disquiet, dry throat and phlegm node, dim vision and eye screen, heat strangury, jaundice. Isolated compounds: 1990, 7996, 7998.
- T1527 *Cladonia* sp. (Cladoniaceae). Isolated compounds: 22282.
- T1528 *Cladonia stellaris* [Syn. *Cladonia alpestris*] (Cladoniaceae); TAI BAI HUA; Stellate Cladonia. Used part: branch-like body. TCM Effects: To calm liver and brighten eyes, regulate menstruation and stanch bleeding. TCM Indications: Wind yang harassing upper body, dizziness and dim vision, migraine, eye diseases, nosebleed(epistaxis), menstrual disorder, leukorrhea. Isolated compounds: 7951, 16967, 18090, 22282.
- T1529 *Cladonia verticillata* (Cladoniaceae); XIAO LA BA; Verticillate Cladonia. Used part: herb. TCM Effects: To cool blood and stanch bleeding. TCM Indications: Cough, bleeding due to external injury, scalds. Isolated compounds: 7661, 15798, 20342.  
*Cladosiphon decipiens* = *Nemacystus decipiens*
- T1530 *Cladostachys amaranthoides* [Syn. *Achyranthes amaranthoides*; *Cladostachys frutescens*; *Deeringia amaranthoides*] (Rutaceae); JIU CENG FENG. Used part: whole herb. TCM Effects: To dispel wind and remove damp, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, dysentery, diarrhea. Isolated compounds: 18722, 18723, 18727.
- T1531 *Cladrastis* spp. (Fabaceae). Isolated compounds: 3004.
- T1532 *Clausena anisata* (Rutaceae); BA JIAO HUANG PI; Octet Wampee\*. Isolated compounds: 1186, 16261.
- T1533 *Clausena dentata* (Rutaceae); YE HUANG PI; Henry Wampee. Used part: leaf and root. TCM Effects: To soothe wind and rectify qi, dispel damp and transform stasis. TCM Indications: Common cold, measles papules, asthma, stomachache, rheumatism, edema, sprain and contusion, fracture, dislocation. Isolated compounds: 5134, 15737.
- T1534 *Clausena dunniana* (Rutaceae); HEI GUO HUANG PI; Dunn Wampee. Used part: leaf and root. TCM Effects: To soothe wind and rectify qi, dispel damp and transform stasis. TCM Indications: Common cold, measles papules, asthma, stomachache, rheumatism, edema, sprain and contusion, fracture, dislocation. Isolated compounds: 6637, 6638.  
*Clausena euchrestifolia* = *Murraya euchrestifolia*
- T1535 *Clausena excavata* (Rutaceae); SHAN HUANG PI; Hollowed Wampee. Used part: branchlet-leaf. TCM Effects: To course wind and resolve exterior, move qi and relieve pain, interrupt malaria, kill worms. TCM Indications: Infection of upper respiratory tract, influenza, malaria, abdominal pain, knocks and falls, fracture. Isolated compounds: 3788, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 5134, 6296, 7897, 8832, 9410, 10126, 10478, 14216, 14217, 14254, 15027, 15028, 15118, 15737, 22777, 22971.
- T1536 *Clausena heptaphylla* (Rutaceae); QI YE HUANG PI; Heptaleaf Wampee\*. Isolated compounds: 9410, 14144, 14216.
- T1537 *Clausena lansium* (Rutaceae); HUANG PI GEN; Chinese Wampee Root. Used part: root. TCM Effects: To move qi and relieve pain. TCM Indications: Qi stagnation stomachache, abdominal pain, mounting pain, wind-damp bone pain, dysmenorrhea. Isolated compounds: 16154.
- T1538 *Clausena lansium* (Rutaceae); HUANG PI YE; Chinese Wampee Leaf. Used part: leaf. TCM Effects: To course wind and resolve exterior, move qi and transform phlegm. TCM Indications: Warm disease fever, cough and asthma, qi distention abdominal pain, yellow swelling, malaria, inhibited urination, heat toxin scab and lai. Isolated compounds: 3789, 4484, 15366.
- T1539 *Clausena* sp. (Rutaceae). Isolated compounds: 16261.
- T1540 *Claviceps paspali* (Clavicipitaceae); QUE BAI MAI JIAO; Paspalum Ergot\*. Isolated compounds: 11516.
- T1541 *Claviceps purpurea* (Clavicipitaceae); MAI JIAO; Ergot. Used part: sclerotium. TCM Effects: To contract uterus and stanch bleeding, relieve pain. TCM Indications: Postpartum bleeding, migraine. Isolated compounds: 351, 749, 763, 3477, 3814, 4125, 6765, 7231, 7232, 7233, 7234, 7235, 7236, 7237, 7238, 7240, 7241, 7242, 7243, 7244, 7250, 7252, 7253, 7254, 9071, 9530, 9568, 11516, 11712, 13256, 14133, 14410, 14411, 14412, 14413, 16808, 19599, 19600, 19601, 19602, 19605, 19789, 22158, 22558.
- T1542 *Clavularia viridis* CHONG SHENG RUAN SHAN HU; Okinawan Softcoral Clavularia viridis. Isolated compounds: 17773, 17774, 17775.
- T1543 *Cleistanthus collinus* (Euphorbiaceae); QIU SHENG BI HUA MU. Isolated compounds: 3816.
- T1544 *Cleistocalyx operculatus* (Myrtaceae); SHUI RONG; Lidded Cleistocalyx. Used part: bud. TCM Effects: To clear heat and resolve toxin, dispel summerheat and engender liquid, disperse stagnation and disinhibit damp. TCM Indications: Fever and headache due to external contraction, summerheat-heat and vexation and thirst, heat toxin diarrhea dysentery, accumulation with abdominal distention. Isolated compounds: 7903, 7905.
- T1545 *Clematis chinensis* (Ranunculaceae); WEI LING XIAN; Chinese Clematis. Used part: root. TCM Effects: To dispel wind and eliminate damp, free network vessels and relieve pain. TCM Indications: Common cold, tonsillitis, acute icterohepatitis, laryngitis, rheumatic arthritis, wind-damp impediment pain, numbness in limbs, hypertonicity of sinews and vessels, bone stuck in throat. Isolated compounds: 1178, 1179, 3340, 3818, 3822, 3824, 3825, 3826, 3827, 5209, 6767, 8727, 8728, 8729, 9260, 9276, 16055, 16056, 16057, 16058, 16060, 16061, 16063, 17943, 17944, 17946, 17947, 17948, 17949, 17950, 18714, 18715, 18716, 18835, 18836.
- T1546 *Clematis tangutica* (Ranunculaceae); GAN QING TIE XIAN LIAN; Tangut Clematis. Used part: whole herb or stem-leaf. TCM Effects: To fortify stomach and disperse accumulation, resolve toxin and transform damp. TCM Indications: Non-digestion of food accumulation, abdominal fullness with glomus and congestion, abdominal pain and diarrhea, welling abscess and sores, damp sore. Isolated compounds: 1572, 8606.
- T1547 *Clematis terniflora* [Syn. *Clematis maximowicziana*] (Ranunculaceae);

- BAI HUA TENG; Threeflower Clematis. Used part: root. TCM Effects: To dispel wind and eliminate damp, resolve toxin and disperse swelling, cool blood and stanch bleeding. TCM Indications: Wind-damp impediment pain, swelling toxin of clove sore, throat impediment, snake bite, dog bite, blood ejection, hemoptysis, flooding and spotting. Isolated compounds: 17965.
- T1548 *Clematis tibetana* (Ranunculaceae); XI ZANG TIE XIAN LIAN; Tibet Clematis\*. Isolated compounds: 819, 3343, 3819, 3820, 3821, 9275, 9276, 9573, 9695, 17946, 17947, 17949.
- T1549 *Clematoclethra scanden* (Actinidiaceae); GANG MAO TENG SHAN LIU; Hisped Vineclethra. Isolated compounds: 21860.
- T1550 *Cleome gynandra* [Syn. *Gynandropsis gynandra*] (Capparidaceae); BAI HUA CAI ZI; Common Spiderflower Seed. Used part: seed. TCM Effects: To dispel wind and dissipate cold, quicken blood and relieve pain. TCM Indications: Wind-cold sinew and bone numbness, aching pain in back and shoulder, lumbago, swelling pain due to external injury, bone tuberculosis, hemorrhoids and fistulas. Isolated compounds: 3828.
- T1551 *Cleome icosandra* (Capparidaceae); DUO RUI BAI HUA CAI; Multipistillate Spiderflower\*. Isolated compounds: 3829.
- T1552 *Cleome viscosa* (Capparidaceae); HUANG HUA CAO; Yellowflower Spiderflower\*. Used part: whole herb. TCM Effects: To dissipate stasis and disperse swelling, dispel wind and relieve pain, engender flesh and cure sores. TCM Indications: Painful swelling from knocks and falls, taxation damage and lumbago, mounting *qi* (hernia), headache, dysentery, ulcerating sores, purulence in ear top, red eyes and itch-pain, strangury-turbidity and vaginal discharge. Isolated compounds: 3829.
- T1553 *Clerodendranthus spicatus* (Lamiaceae); MAO XU CAO; Spicate Clerodendranthus. Used part: whole herb. TCM Effects: To clear heat and dispel damp, expel stone and disinhibit water. TCM Indications: Acute nephritis, chronic nephritis, cystitis, urethral stone, rheumatic arthritis. Isolated compounds: 11085, 16050, 19211, 19929, 22270.
- T1554 *Clerodendron cyrtophyllum* (Verbenaceae); LU BIAN QING; Manyflower Glorybower Leaf. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Febrile diseases due to external contraction, exuberant heat and vexation thirst, swelling pain in throat, mouth sore, jaundice, heat toxin dysentery, acute enteritis, swelling toxin of welling abscess and flat abscess, spontaneous external bleeding, blood strangury, bleeding due to external injury. Isolated compounds: 3842, 3844, 4589, 7951, 16822, 19984, 20369, 20465.
- T1555 *Clerodendron fortunatum* (Verbenaceae); GUI DENG LONG; Redcalyx Glotybower. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, suppress cough and dispel wind. TCM Indications: Common cold, throat pain, cough, lung disease, stomachache, abdominal pain, swollen boil, knocks and falls, rheumatism. Isolated compounds: 3841, 3842, 3843, 3844.
- T1556 *Clerodendron fragrans* (Verbenaceae); CHOU MO LI; Fragrant Glorybower. Used part: root and leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood and disperse swelling. TCM Indications: Wind-damp bone pain, beriberi, edema, hemorrhoids, prolapse of rectum, itchy papules, scab sore, chronic medullitis. Isolated compounds: 4434, 7428, 9564, 10351, 16777, 19582, 19587.
- T1557 *Clerodendron indicum* (Verbenaceae); CHANG GUAN JIA MO LI; Indian Glorybower. Used part: whole herb. TCM Effects: To eliminate inflammation and disinhibit urine, quicken blood and disperse swelling, dispel wind-damp. TCM Indications: Urinary tract infection, cystitis, sprain from knocks and falls, wind-damp bone pain. Isolated compounds: 9564, 21534.
- T1558 *Clerodendron inerme* (Verbenaceae); SHUI HU MAN; Unarmed Glorybower. Used part: branchlet-leaf. TCM Effects: To dispel stasis, disperse swelling, eliminate damp, kill worms. TCM Indications: Stasis swelling from knocks and falls, eczema, sore and scab. Isolated compounds: 3585, 7428, 19211.
- T1559 *Clerodendron infortunatum* (Verbenaceae); QIAN YU DA QING; Unfortunate Glorybower. Isolated compounds: 3841.
- T1560 *Clerodendron myricoides* (Verbenaceae); YANG MEI CHANG SHAN; Bayberry Glorybower\*. Isolated compounds: 15189.
- T1561 *Clerodendron serratum* (Verbenaceae); SAN TAI HONG HUA; Serrate Glorybower. Equivalent plant: *Clerodendrum serratum* var. *amplexifolium*. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, dissipate stasis and relieve pain, resolve toxin and disperse swelling, interrupt malaria. TCM Indications: Damp-heat dysentery, strangury syndrome, wind-damp-heat impediment, blood stasis and dysmenorrhea, knocks and falls, swelling pain in throat, swelling toxin of welling abscess and flat abscess, urticaria, malaria. Isolated compounds: 13504, 18415, 19765.
- T1562 *Clerodendron trichotomum* (Verbenaceae); CHOU WU TONG; Harlequin Glorybower Leaf. Used part: leaf. TCM Effects: To dispel wind-damp, lower blood pressure, interrupt malaria. TCM Indications: Hypertension, malaria, wind-damp impediment, numbness in limbs, hemiplegia, migraine, dysentery, hemorrhoids, welling abscess and flat abscess, scab sore. Isolated compounds: 58, 3837, 21578.
- T1563 *Clerodendron trichotomum* (Verbenaceae); CHOU WU TONG GEN; Harlequin Glorybower Root. Used part: root. TCM Effects: To dispel wind and relieve pain, move *qi* and disperse food. TCM Indications: Malaria, wind-damp impediment pain, hypertension, food accumulation, child *gan* accumulation, knocks and falls. Isolated compounds: 3842, 3843, 3844.
- T1564 *Clerodendron trichotomum* var. *fargesii* (Verbenaceae); AI TONG ZI; Farges Glorybower\*. Isolated compounds: 3839.
- T1565 *Clerodendrum bungei* (Verbenaceae); CHOU MU DAN; Rose Glorybower (Clerodendrum). Used part: stem-leaf. TCM Effects: To resolve toxin and disperse swelling, dispel wind-damp, lower blood pressure. TCM Indications: Welling abscess and flat abscess, clove sore, effusion of back, mammary welling abscess, hemorrhoids, eczema, erysipelas, wind-damp impediment pain, hypertension. Isolated compounds: 2746, 3838.
- T1566 *Clerodendrum inerme* (Verbenaceae); KU LANG SHU; Unarmed Glorybower. TCM Effects: To dispel stasis and stanch bleeding, dry damp and kill worms. TCM Indications: Knocks and falls, blood stasis swelling and pain, blood ejection due to internal damage, bleeding due to external injury, sore lichen and scab *lai*, eczema with pruritus. Isolated compounds: 5670, 7429, 11033, 11034, 14432, 15667, 16825, 18599, 19228, 19229.

- T1567 *Clerodendrum mandarinorum* (Verbenaceae); HAI TONG; Tomentose Glorybower. Used part: branch-leaf. TCM Effects: To dispel wind and free network vessels. TCM Indications: Hemiplegia, sequel of poliomyelitis. Isolated compounds: 13477.
- T1568 *Clerodendrum nucinatum* (Verbenaceae). Isolated compounds: 22213.
- T1569 *Clerodendrum serratum* var. *amplexifolium* (Verbenaceae); SAN TAI HUA; Amplexifolious Glorybower. Used part: whole herb. TCM Effects: See *Clerodendron serratum*. TCM Indications: See *Clerodendron serratum*. Isolated compounds: 19775.
- T1570 *Clerodendrum thomsonae* (Verbenaceae); LONG TU ZHU; Bleedingheart Glorybower. Used part: whole herb. TCM Effects: To resolve toxin. TCM Indications: Knocks and falls, chronic tympanitis. Isolated compounds: 409, 816, 2004, 13710, 18628.
- T1571 *Cleyera ochracea* [Syn. *Cleyera japonica*] (Theaceae); YANG TONG; Japanese Cleyera. Isolated compounds: 10513.
- T1572 *Clinacanthus siamensis* (Acanthaceae); TAI GUO NIU XU HUA; Thailand Clinacanthus\*; Lin-Nguu-Hao (Thai name). Isolated compounds: 6809, 6810, 14729, 14731, 14758.
- T1573 *Clinopodium chinense* (Lamiaceae); FENG LUN CAI; Chinese Clinopodium. Used part: whole herb. TCM Effects: To course wind and clear heat, resolve toxin and disperse swelling. TCM Indications: Common cold, summerheat stroke, acute cholecystitis, hepatitis, enteritis, dysentery, parotitis, mastitis, swelling toxin of clove sore, allergic dermatitis, acute conjunctivitis. Isolated compounds: 3845, 11691.
- T1574 *Clintonia alpina* (Liliaceae); LEI GONG QI; Common Broadlily. Used part: whole herb. TCM Effects: To dissipate stasis and relieve pain. TCM Indications: Knocks and falls. Isolated compounds: 9334.
- T1575 *Cliona celata* (Clionidae) YIN JU CHUAN BEI HAI MIAN; Burrowing sponge. Isolated compounds: 17729.
- T1576 *Clitocybe clavipes* (Tricholomataceae) BANG BING BEI SAN; Fat-footed Clitocybe. Isolated compounds: 3811, 3812.
- T1577 *Clitoria ternatea* (Fabaceae); HU DIE HUA DOU; Asian Pigeonwings. Used part: seed. TCM Effects: To relieve pain. TCM Indications: Pain in joints. Isolated compounds: 618, 5029, 5030, 12088, 15175, 18389.
- T1578 *Clivia miniata* (Amaryllidaceae); JUN ZI LAN; Scarlet Kafirily. Isolated compounds: 9547, 13241.
- T1579 *Cneorum pulverulentum* (Cneoraceae); BEI FEN NAI AO LE MU. Isolated compounds: 18097.
- T1580 *Cnicus benedictu* DI ZHONG HAI JU. Isolated compounds: 15806, 15809.
- T1581 *Cnidium japonicum* (Apiaceae); BING SHE CHUANG; Japanese Cnidium. Isolated compounds: 1619.
- T1582 *Cnidium monnieri* (Apiaceae); SHE CHUANG ZI; Common Cnidium. Used part: fruit. TCM Effects: To warm kidney and invigorate yang, dispel wind, dry damp, kill worms. TCM Indications: Impotence, scrotal damp itch, vaginal discharge, pudendal itch, trichomoniasis, eczema, infertility due to uterus cold, wind-damp impediment pain, scab and lichen, damp sore. Isolated compounds: 316, 933, 1619, 2309, 2309, 3854, 3857, 3935, 3936, 3937, 6709, 11001, 11297, 11601, 11755, 11761, 13725, 16261, 18443, 22203, 22774, 22774, 22775.
- T1583 *Cnidium officinale* [Syn. *Ligusticum officinale*] (Apiaceae); YAO YONG SHE CHUANG; Medicinal Ligusticum. Used part: rhizome. TCM Effects: See *Ligusticum chuanxiong*. TCM Indications: See *Ligusticum chuanxiong*. Isolated compounds: 2797, 12825.
- T1584 *Cocculus carolinus* (Menispermaceae); MEI GUO QING TENG; Carolina Snailseed\*. Isolated compounds: 3864.
- T1585 *Cocculus indicus* (Menispermaceae); YIN DU MU FANG JI; Indian Snailseed\*. Isolated compounds: 17347, 17349.
- T1586 *Cocculus laurifolius* (Menispermaceae); HENG ZHOU WU YAO; Laurelleaf Snailseed. Used part: root or whole herb. TCM Effects: To normalize qi and loosen chest, dispel wind and relieve pain. TCM Indications: Hypertension, headache, mounting qi, abdominal pain, rheumatic pain in legs. Isolated compounds: 3862, 3863, 3878, 7337, 11337, 12571, 14247, 18655, 21887.
- T1587 *Cocculus laeabe* (Menispermaceae); Cocculus laeabe. Isolated compounds: 16439.
- T1588 *Cocculus pendulus* (Menispermaceae); CHUI MU FANG JI; Drooping Snailseed\*. Isolated compounds: 3881, 3882, 3883, 4877, 12351, 12352.
- T1589 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*] (Menispermaceae); MU FANG JI; Japanese Snailseed. Used part: root. TCM Effects: To dispel wind and eliminate damp, free channels and quicken network vessels, resolve toxin, disperse swelling and settle pain. TCM Indications: Wind-damp impediment pain, pain from arthritis, edema, pulmonary edema, edema due to heart disease, neuralgia, dribbling pain of urination, amenorrhea, knocks and falls, swelling pain in throat, toxin swelling of sores, eczema, poisonous snake bite. Isolated compounds: 3864, 3865, 3879, 7024, 11747, 11748, 13374, 13713, 15777, 21877, 21887.
- T1590 *Cocculus trilobus* [Syn. *Cocculus sarmentosus*] (Menispermaceae); QING TENG XIANG; Japanese Snailseed Stem. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, regulate qi and relieve pain, disinherit water and disperse edema. TCM Indications: Wind-damp impediment pain, knocks and falls, stomachache, abdominal pain, edema, strangury syndrome. Isolated compounds: 3864.
- T1591 *Cocos nucifera* (Arecaceae); YE ZI; Coconut. Used part: sarcocarp. TCM Effects: To boost qi and fortify spleen, kill worms, disperse gan. TCM Indications: Gan accumulation, fasciolopsiasis. Isolated compounds: 7387.
- T1592 *Cocos nucifera* (Arecaceae); YE ZI PI; Coconut Root-bark. Used part: root cortex. TCM Effects: To stanch bleeding, relieve pain. TCM Indications: Nosebleed(epistaxis), stomachache, vomiting and diarrhea. Isolated compounds: 3880.
- T1593 *Cocos nucifera* (Arecaceae); YE ZI RANG; Coconut Albumen. Used part: albumen. TCM Effects: To boost qi and fortify spleen, kill worms, disperse gan. TCM Indications: Fasciolopsiasis, gan accumulation. Isolated compounds: 3138, 3139, 3140, 6632, 12569, 15680, 19983, 20168, 20369, 21415, 22555, 22561.
- T1594 *Cocos nucifera* (Arecaceae); YE ZI YOU; Coconut Oil. Used part: oil. TCM Effects: To kill worms and relieve itch, close sores. TCM Indications: Scab and lichen, frostbite. Isolated compounds: 7978.
- T1595 *Codium fragile* (Codiaceae); SHUI SONG; Fragile Codium Frond. Used part: frond. TCM Effects: To clear summerheat and resolve toxin, disinherit water and disperse edema, expel worms. TCM Indications:



- Edema, stream toxin, inhibited urination, ascariasis, hasten delivery. Isolated compounds: 578, 2222, 3844, 6407, 8011, 8025, 8312, 14450, 19964, 19965, 20998.
- T1596 *Codonopsis canescens* (Campanulaceae); HUI MAO DANG SHEN; Greyhair Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 13507, 22843.
- T1597 *Codonopsis clematidea* (Campanulaceae); XIN JIANG DANG SHEN; Clematis Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 3886.
- T1598 *Codonopsis convolvulacea* (Campanulaceae); JI DAN SHEN; Convolvulate Asiabell. Used part: root. TCM Effects: To supplement *qi* and nourish blood, moisten lung and engender liquid. TCM Indications: Blood vacuity, spontaneous sweating, scant breast milk, lung vacuity cough, neurasthenia, mounting *qi*. Isolated compounds: 7465.
- T1599 *Codonopsis pilosula* (Campanulaceae); DANG SHEN; Pilose Asiabell. Equivalent plant: *Codonopsis pilosula* var. *modesta*, *Codonopsis tangshen*, *Codonopsis tubulosa*, *Codonopsis subglobosa*, *Codonopsis canescens*, *Codonopsis clematidea*. Used part: root. TCM Effects: To fortify spleen and supplement lung, boost *qi* and engender liquid. TCM Indications: Spleen-stomach vacuity, reduced food intake and sloppy stool, lassitude in limbs, cough and asthma due to lung vacuity, shortness of breath and spontaneous sweating, *qi*-blood depletion. Isolated compounds: 1966, 1967, 2056, 2788, 3139, 3140, 3589, 3887, 4390, 4672, 6188, 6534, 6795, 7438, 7469, 7768, 7951, 7971, 8012, 8817, 9042, 9359, 9360, 9378, 9486, 9531, 10493, 10669, 12569, 13507, 13823, 13931, 14023, 14053, 14215, 14484, 14610, 14629, 14655, 15203, 15527, 15528, 15671, 15675, 15678, 15684, 15948, 16830, 16831, 16968, 17093, 17376, 18267, 18739, 18837, 20168, 20169, 20351, 20352, 20367, 20368, 20369, 20372, 20554, 20569, 20672, 20711, 20713, 22843.
- T1600 *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (Campanulaceae); SU HUA DANG SHEN; Moderate Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 7951, 8817, 13823, 16968, 17093, 20369, 20711, 20713.
- T1601 *Codonopsis subglobosa* (Campanulaceae); QIU HUA DANG SHEN; Subglobose Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 1967, 7951, 8817, 13507, 13823, 17093, 20369, 20711, 20713, 22843.
- T1602 *Codonopsis tangshen* (Campanulaceae); CHUAN DANG SHEN; Szechwan Tangshen. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 1967, 3887, 7951, 8817, 9525, 9527, 9528, 9529, 9532, 9533, 13507, 13823, 16968, 17093, 20369, 20569, 20672, 20673, 20674, 20675, 20711, 20713, 22843.
- T1603 *Codonopsis tubulosa* (Campanulaceae); GUAN HUA DANG SHEN; Tubularflower Asiabell. Used part: root. TCM Effects: See *Codonopsis pilosula*. TCM Indications: See *Codonopsis pilosula*. Isolated compounds: 13507, 22843.
- T1604 *Coeloglossum viride* [Syn. *Coeloglossum viride* var. *bracteatum*] (Orchidaceae); AO SHE LAN; Frog Orchid. Used part: tuber. TCM Effects: See *Gymnadenia conopsea*. TCM Indications: See *Gymnadenia conopsea*. Isolated compounds: 3892, 10627, 16168.
- T1605 *Coelogyne cristata* (Orchidaceae); MAO CHUN BEI MU LAN; Cristate Coelogyne. Isolated compounds: 3889, 3890, 3891.
- T1606 *Coelogyne ovalis* (Orchidaceae); BEI MU LAN; Common Coelogyne. Isolated compounds: 3889, 7811.
- T1607 *Coelospermum billardieri* (Rubiaceae); XIN SU GE LAN XUE GUO MU; Newcaledonian Coelospermum\*. Isolated compounds: 3888.
- T1608 *Coffea arabica* (Rubiaceae); XIAO GUO KA FEI; Arabian Coffeetree. Equivalent plant: *Coffea liberica*. Used part: seed. TCM Effects: To arouse spirit, disinhibit urine, fortify stomach. TCM Indications: Fatigued spirit, inappetence. Isolated compounds: 1866, 2887, 2892, 3551, 5414, 14166, 14167, 14178.
- T1609 *Coffea excelsa* (Rubiaceae); GAO KA FEI; High Coffee\*. Isolated compounds: 2892.
- T1610 *Coffea liberica* (Rubiaceae); DA GUO KA FEI; Liberian Coffee. Used part: seed. TCM Effects: See *Coffea arabica*. TCM Indications: See *Coffea arabica*. Isolated compounds: 2892.
- T1611 *Coffea robusta* (Rubiaceae); CU ZHUANG KA FEI; Robust Coffee\*. Isolated compounds: 5414.
- T1612 *Coffea* sp. (Rubiaceae). Isolated compounds: 1886, 2886, 11328.
- T1613 *Coix lacryma-jobi* (Poaceae); YI MI; Adlay. Isolated compounds: 3907, 20369.
- T1614 *Coix lacryma-jobi* var. *ma-yuen* (Poaceae); YI YI REN; Jobstears Seed. Used part: seed. TCM Effects: To fortify spleen and percolate damp, eliminate impediment and check diarrhea, clear heat and expel pus. TCM Indications: Edema, beriberi, inhibited urination, damp impediment and hypertonicity, spleen vacuity diarrhea, pulmonary welling abscess, intestinal welling abscess, flat wart. Isolated compounds: 3906, 3907.
- T1615 *Cola acuminata* (Sterculiaceae); SU DAN KE LE GUO; Acuminated Colanut. Used part: seed. TCM Effects: To raise spirit. Isolated compounds: 2892, 17867, 21310.
- T1616 *Colchicum autumnale* (Liliaceae); QIU SHUI XIAN; Meadow Saffron. Used part: corm. Isolated compounds: 3909, 3910, 3911, 3912.
- T1617 *Coleonema pulchellum* (Rutaceae); MEI LI BU KU; Rutaceae Diosma. Isolated compounds: 17777.
- T1618 *Coleostephus myconis* (Asteraceae); QIAO GUAN JU; Common Coleostephus. Isolated compounds: 15142.
- T1619 *Coleus barbatus* (Lamiaceae); RAN MAO QIAO RUI HUA; Forskahl Coleus. Isolated compounds: 2147.
- T1620 *Coleus forskahlii* (Lamiaceae); MAO HOU QIAO RUI HUA; Forskahl Coleus. Isolated compounds: 3915, 3917, 3918.  
*Coleus wulfenoides* = *Orthosiphon wulfenoides*
- T1621 *Coleus xanthanthus* (Lamiaceae); HUANG QIAO RUI HUA; Yellowflower Coleus. Isolated compounds: 146, 358, 3919, 3920, 3921, 7062, 22748, 22749, 22750, 22751, 22752, 22753, 22754.
- T1622 *Collinsonia canadensis* ER RUI ZI SU. Isolated compounds: 3927.
- T1623 *Collybia albuminosa* (Tricholomataceae); JI ZONG; Collybia Albuminosa Sporocarp. Used part: sporocarp. TCM Effects: To fortify spleen and harmonize stomach. TCM Indications: Distention fullness

- in stomach duct and abdomen, indigestion, fatigued spirit, hemorrhoids. Isolated compounds: 7250.
- T1624 *Colocasia antiquorum* (Araceae); YE YU; Taro. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Mammary welling abscess, toxin swelling, leprosy, scab and lichen, knocks and falls, bee sting. Isolated compounds: 8076, 8078.
- T1625 *Colochirous anceps* KE YI YI SHOU SHEN. Isolated compounds: 3928.
- T1626 *Colophospermum mopane*. Isolated compounds: 5622, 5623, 14546.
- T1627 *Colubrina asiatica* (Rhamnaceae); SHE TENG; Asian Colubrina. Isolated compounds: 3929, 3933.
- T1628 *Colubrina* spp. (Rhamnaceae). Isolated compounds: 15751.
- T1629 *Colysis pothifolia* [Syn. *Hemionitis pothifolia*] (Polypodiaceae); KUAN YU XIAN JUE; Broad-pinna Colysis. Used part: rhizome or whole herb. TCM Effects: To dispel wind and free network vessels, dissipate stasis and relieve pain. TCM Indications: Wind-damp lumbago, knocks and falls. Isolated compounds: 16110.
- T1630 *Combretum albopunctatum* (Combretaceae); BAI DIAN FENG CHE ZI; White-punctated Combretum\*. Isolated compounds: 5480, 5966.
- T1631 *Combretum imberbe* (Combretaceae); WU MAO FENG CHE ZI; Glabrous Combretum\*. Isolated compounds: 9741, 10227, 10228, 10995.
- T1632 *Combretum yunnanensis* (Combretaceae); YUN NAN FENG CHE ZI; Yunnan Combretum\*. Used part: seed. TCM Effects: To kill worms and disperse accumulation. TCM Indications: Abdominal pain due to worm accumulation. Isolated compounds: 492, 6757, 18697.
- T1633 *Commelina communis* (Commelinaceae); YA ZHI CAO; Common Dayflower. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, disperse edema. TCM Indications: Common cold, wind-heat common cold, influenza, noninfectious fever, ardent fever incessant, ascites, edema, hordeolum, swelling pain in throat, scant urine with edema, heat strangury with inhibited pain, swollen welling abscess and toxin of clove. Isolated compounds: 5010, 7817, 7951, 12952, 13440, 13504.
- T1634 *Commiphora confusa* (Burseraceae); HUN XIAO MO YAO; Confuse Myrrh tree\*. Isolated compounds: 286, 294, 16844, 21699.
- T1635 *Commiphora kua* (Burseraceae); KU A MO YAO; Kua Myrrh tree\*. Isolated compounds: 295, 10497, 21090.
- T1636 *Commiphora kua* var. *gowllo* (Burseraceae); KEN NI YA MO YAO; Kenya Myrrh tree\*. Isolated compounds: 229, 10361.
- T1637 *Commiphora mukul* (Burseraceae); MU KU ER MO YAO; Muhul Myrrh tree\*. Isolated compounds: 15208, 15209, 16781.
- T1638 *Commiphora myrrha* [Syn. *Commiphora molmo*] (Burseraceae); MO YAO; Myrrh. Used part: balsam. TCM Effects: To quicken blood and relieve pain, disperse swelling and engender flesh. TCM Indications: Stasis pain in chest and abdomen, amenorrhea, dysmenorrhea, concretion and conglomeration, knocks and falls, swollen welling abscess and sores, intestinal welling abscess, red eyes with gall. Isolated compounds: 3693, 3943, 4232, 4354, 4416, 6482, 7100, 7521, 13932, 13935, 13936, 14115.
- T1639 *Commiphora wightii* (Burseraceae); A MAN SU DAN MO YAO; Sultanate-Oman Myrrh tree\*. Isolated compounds: 4925, 9075, 9076, 15124.
- T1640 *Coniogramme japonica* [Syn. *Hemionitis japonica*] (Hemionitidaceae); FENG YA JUE; Japanese Coniogramme. Used part: rhizome or whole herb. TCM Effects: To dispel wind and eliminate damp, dissipate blood and relieve pain, clear heat and resolve toxin. TCM Indications: Painful joints due to rheumatism, abdominal pain due to static blood, menstrual block, knocks and falls, red eyes with gall, mammary welling abscess, early stage of toxin swelling. Isolated compounds: 15932, 18159, 18160.
- T1641 *Conioselinum vaginatum* (Apiaceae); XIN JIANG GAO BEN; Vaginate Hemlockparsley. Used part: rhizome. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain. TCM Indications: Wind-cold common cold, headache, wind-cold-damp impediment, cold-damp abdominal pain, diarrhea, scab and lichen, acne. Isolated compounds: 2803, 3990, 7768, 11552, 12825, 12826, 14012, 15203, 15204, 17805, 22336.
- T1642 *Conium maculatum* (Apiaceae); DU SHEN; Poisonhemlock. Isolated compounds: 2887, 3979, 3988, 14250, 18023.
- T1643 *Connarus ritchiei* (Connaraceae). Isolated compounds: 6767.
- T1644 *Conocephalum conicum* (Urticaceae); SHE TAI; Conic Conocephalus\*. Used part: thallus. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Swelling toxin of welling abscess and sore, burns and scalds, poisonous snake bite, fracture. Isolated compounds: 1493, 2351, 2562, 2587, 2588, 2589, 2596, 13146, 13608, 17811, 22103, 22962, 22963.
- T1645 *Consolida ajacis* [Syn. *Delphinium ajacis*] (Ranunculaceae); FEI YAN CAO; Rocket Consolida. Used part: root and seed. TCM Effects: To promote vomiting, drain precipitation, kill worms. TCM Indications: Scab sore, head louse, knocks and falls. Isolated compounds: 781, 782, 5004, 5010, 5035, 6734.
- T1646 *Consolida ambigua* (Ranunculaceae); LIANG SI FEI YAN CAO; Ambiguous Consolida\*. Isolated compounds: 338.
- T1647 *Consolida orientalis* (Ranunculaceae); DONG FANG FEI YAN CAO; Oriental Consolida\*. Isolated compounds: 518, 4899, 4998, 5053, 10496.
- T1648 *Consolida pubescens* (Ranunculaceae); DUAN ROU MAO FEI YAN CAO; Shortfluff Consolida\*. Isolated compounds: 18174.
- T1649 *Convallaria keiskei* [Syn. *Convallaria majalis*] (Liliaceae); LING LAN; Lily of Valley. Used part: whole herb with root. TCM Effects: To warm yang and disperse edema, dispel wind and quicken blood. TCM Indications: Congestive cardiac failure, rheumatic heart disease, paroxysmal tachycardia, edema. Isolated compounds: 2057, 2400, 3501, 4005, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4871, 6853, 7320, 8592, 8593, 10887, 11642, 11674, 12190, 16960, 18781, 21084.
- T1650 *Convolvulus arvensis* (Convolvulaceae); TIAN XUAN HUA; Field Bindweed. Used part: herb and flower. TCM Effects: To dispel wind, relieve pain, relieve itch. TCM Indications: Wind-damp impediment pain, neurodermatitis, toothache. Isolated compounds: 14122.  
*Convolvulus batatas* = *Ipomoea batatas*
- T1651 *Convolvulus cneorum* (Convolvulaceae). Isolated compounds: 3960.
- T1652 *Convolvulus erinaceus* (Convolvulaceae); JI XUAN HUA; Mucronate Glorybind\*. Isolated compounds: 4417.  
*Convolvulus repens* = *Ipomoea aquatica*

- T1653 *Convolvulus sabatius* ssp. *sabatius* (Convolvulaceae). Isolated compounds: 5566.
- T1654 *Convolvulus scammonia* (Convolvulaceae); SI GE MENG XUAN HAU; Scammony Glorybind. Isolated compounds: 19542.
- T1655 *Conyza blinii* (Asteraceae); KU HAO; Blin Conyza. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, drain fire and stanch bleeding. TCM Indications: Chronic trachitis, tonsillitis, pharyngolaryngitis, stomatitis, nephritis, icterohepatitis, conjunctivitis, otitis media, sores, toothache, nosebleed(epistaxis), hematochezia, flooding and spotting, bleeding due to external injury. Isolated compounds: 2887, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4022, 4023, 4024, 4025, 4026, 4027, 6918, 18317, 20168, 20444, 21541.
- T1656 *Conyza bonariensis* [Syn. *Erigeron bonariensis*; *Erigeron linifolius*; *Erigeron crispus*] (Asteraceae); XIANG SI CAO; Bona Conyza. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, eliminate damp and relieve pain, stanch bleeding. TCM Indications: Common cold, malaria, rheumatic arthritis, swelling and pus of sores, bleeding due to external injury. Isolated compounds: 2540, 3318, 10006, 10670.
- T1657 *Conyza canadensis* [Syn. *Erigeron canadensis*] (Asteraceae); QI ZHOU YI ZHI HAO Conyza canadensis Erigeron canadensis; Horseweed Fleabane. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, dissipate stasis and disperse swelling. TCM Indications: Dysentery, enteritis, hepatitis, cholecystitis, knocks and falls, wind-damp bone pain, swelling pain of sore and boil, bleeding due to external injury, psoriasis. Isolated compounds: 2281, 3391, 4360, 4946, 5904, 12894, 13603, 20566, 21741, 21742.
- T1658 *Conyza stricta* (Asteraceae); JIAN TENG BAI JIU CAO; Strict Conyza. Isolated compounds: 9423.
- T1659 *Coprinopsis episcopalis* Fungus Coprinopsis episcopalis. Isolated compounds: 10991, 10992, 10993, 10994.
- T1660 *Coprinus atramentarius* (Agaricaceae); GUI GAI; Coprinus Sporocarp. Used part: sporocarp. TCM Effects: To boost intestines and stomach, rectify *qi* and transform phlegm, resolve toxin and disperse swelling. TCM Indications: Inappetence, cough with phlegm, child epilepsy, swelling of clove, malign sore. Isolated compounds: 617, 4030, 9067, 10913, 10997, 10998, 10999, 11219, 13098, 17083, 22060, 22260.
- T1661 *Coprosma linearifolia* (Rubiaceae). Isolated compounds: 15734.
- T1662 *Coptis chinensis* (Ranunculaceae); HUANG LIAN; Chinese Goldthread. Equivalent plant: *Coptis deltoidea*, *Coptis omeiensis*, *Coptis teetoides*, *Coptis chinensis* var. *breviseipala*. Used part: rhizome. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin, lower blood pressure. TCM Indications: Febrile infectious diseases, dysentery, blood ejection, spontaneous external bleeding, diphtheria, infection of upper respiratory tract, scarlatina, typhoid fever, acute conjunctivitis, otitis media, acute surgical infection, septicemia, hepatitis, trichomoniasis, eruptive dermatitis, hypertension, vexation and agitation, clouded spirit with delirious speech, damp-heat glomus in chest, damp-heat diarrhea dysentery, insomnia and vexation due to effulgent fire, stomach heat vomiting, swift digestion with rapid hungering, red eyes with pain due to liver fire, heat toxin sores, clove sore running yellow, gum swelling and pain, mouth sore, tongue sores, genital swelling, bleeding from hemorrhoids, eczema, scalds. Isolated compounds: 2303, 3174, 3934, 4032, 6081, 6835, 7768, 11851, 12847, 13374, 15882, 16555, 21689.
- T1663 *Coptis chinensis* var. *breviseipala* (Ranunculaceae); DUAN E HUANG LIAN; Shortsepal Goldthread. Used part: rhizome. TCM Effects: See *Coptis chinensis*. TCM Indications: See *Coptis chinensis*. Isolated compounds: 2303, 4032, 11851, 16555.
- T1664 *Coptis deltoidea* (Ranunculaceae); SAN JIAO YE HUANG LIAN; Deltoid Goldthread. Used part: rhizome. TCM Effects: See *Coptis chinensis*. TCM Indications: See *Coptis chinensis*. Isolated compounds: 2303, 4032, 6835, 11851, 13374, 16555.
- T1665 *Coptis groenlandica* (Ranunculaceae). Isolated compounds: 9011.
- T1666 *Coptis gulinensis* GU LIN YE LIAN; Gulin Goldthread\*. Isolated compounds: 2303, 4032, 11851, 16555.
- T1667 *Coptis japonica* (Ranunculaceae); RI BEN HUANG LIAN; Japanese Goldthread\*. Isolated compounds: 2302, 4032, 12523, 17409, 22726, 22727, 22728, 22729, 22730, 22731.
- T1668 *Coptis lineariseipala* XIAN E HUANG LIAN; Lineariseipal Goldthread\*. Isolated compounds: 2303, 4032, 11851, 16555.
- T1669 *Coptis omeiensis* (Ranunculaceae); E MEI YE HUANG LIAN; Omei Mountain Goldthread. Used part: rhizome. TCM Effects: See *Coptis chinensis*. TCM Indications: See *Coptis chinensis*. Isolated compounds: 2303, 4032, 11851, 16555.
- T1670 *Coptis teetoides* [Syn. *Coptis teeta*] (Ranunculaceae); YUN NAN HUANG LIAN; Yunnan Goldthread. Used part: rhizome. TCM Effects: See *Coptis chinensis*. TCM Indications: See *Coptis chinensis*. Isolated compounds: 2303, 4032, 11851, 13374, 16555.
- T1671 *Coptis trifolia* (Ranunculaceae); SAN YE HUANG LIAN; Three-leaf Goldthread. Isolated compounds: 6835.
- T1672 *Corallodiscus flabellatus* [Syn. *Didissandra flabellat*] (Gesneriaceae); SHI DAN CAO; Fan-shaped Corallodiscus. Used part: whole herb. TCM Effects: To clear damp heat, resolve sore toxin, quicken blood and relieve pain. TCM Indications: Damp-heat impediment pain, toxin swelling of sores, swelling pain in throat, red and white vaginal discharge, knocks and falls, bleeding due to external injury. Isolated compounds: 5949, 6076, 6077, 6078, 6079, 6080, 6085, 21761.
- T1673 *Corchorus capsularis* (Tiliaceae); HUANG MA YE; Roundpod Jute Leaf. Used part: leaf. TCM Effects: To rectify *qi* and stanch bleeding, expel pus and engender flesh. TCM Indications: Abdominal pain, dysentery, flooding, sore and welling abscess. Isolated compounds: 4036, 4037, 7320, 9335, 16084.
- T1674 *Corchorus capsularis* (Tiliaceae); HUANG MA ZI; Roundpod Jute Seed. Used part: seed. TCM Effects: To strengthen heart, anesthetize. TCM Indications: Flooding, cough harmful to lung. Isolated compounds: 4036, 7320, 9335, 16084.
- T1675 *Corchorus olitorius* (Tiliaceae); CHANG SHUO HUANG MA; Jews-mallow. Used part: whole herb. TCM Effects: To course wind, relieve cough, disinhibit damp. TCM Indications: Common cold with cough, dysentery, eczema. Isolated compounds: 7320, 9335, 16084.
- T1676 *Corchorus trilocularis* (Tiliaceae); SAN SHI HUANG MA; Three-room Roundpod Jute\*. Isolated compounds: 21403, 21890, 21891.
- T1677 *Cordia globosa* (Boraginaceae); QIU ZHUANG PO BU MU; Globe Cordia\*. Isolated compounds: 6221, 14843.

- T1678 *Cordia multispicata* (Boraginaceae); DUO SUI PO BU MU; Manyspike Cordia\*. Isolated compounds: 4039, 4040, 4041, 4042, 4043, 4044, 7001, 10960, 12490, 12491, 12493, 12496, 16358, 16498, 22272.
- T1679 *Cordia spinescens* (Boraginaceae); YOU CI PO BU MU; Spined Cordia\*. Isolated compounds: 2955, 13369, 13371.
- T1680 *Cordyceps militaris* (Clavicipitaceae); YONG CHONG CAO; Scarlet Caterpillar Fungus. Equivalent plant: REN GONG YONG CHONG CAO. Used part: sclerotium and stroma. TCM Effects: To supplement lung and boost kidney. TCM Indications: Tuberculosis, phlegm containing blood, night sweating, blood vacuity, lumbago. Isolated compounds: 618, 3180, 3413, 3414, 3415, 4048, 6034, 7250, 10426, 10427, 18258.
- T1681 *Cordyceps militaris* cv (Clavicipitaceae); REN GONG YONG CHONG CAO; Cultivated Scarlet Caterpillar Fungus\*. Used part: sclerotium and stroma. TCM Effects: To supplement lung and boost kidney. TCM Indications: Tuberculosis, phlegm containing blood, night sweating, blood vacuity, lumbago. Isolated compounds: 343, 617, 618, 4047, 4048, 7250, 9070, 9071, 11082, 22237, 22252.
- T1682 *Cordyceps ophioglossoides* (Clavicipitaceae); DA TUAN NANG CHONG CAO; Goldenthread Cordyceps. Used part: stroma. TCM Effects: To quicken blood, stanch bleeding, regulate menstruation. TCM Indications: Flooding, menstrual disorder [= menoxenia]. Isolated compounds: 16130.
- T1683 *Cordyceps sinensis* (Clavicipitaceae); DONG CHONG XIA CAO; Aweto (Chinese Caterpillar Fungus). Used part: a drug consisting of dried fungal stroma growing on larva of a caterpillar. TCM Effects: To supplement lung and boost kidney, stanch bleeding and transform phlegm. TCM Indications: Impotence and emission, neurasthenia, backache, aching in lumbus and knees, enduring cough and vacuity asthma, taxation damage hemoptysis. Isolated compounds: 617, 618, 4046, 4048, 5770, 6720, 6907, 7173, 7250, 9070, 9071, 9486, 10913, 10914, 11082, 11624, 12891, 12893, 13504, 19983, 20280, 22237, 22252, 22554, 22556.
- T1684 *Cordyline stricta* (Liliaceae); JIAN YE TIE SHU YE; Strictleaf Dracaena Leaf. Used part: leaf. TCM Effects: To dissipate stasis and disperse swelling, cool blood and stanch bleeding. TCM Indications: Knocks and falls, bleeding due to external injury, hematochezia, hematuria, nosebleed(epistaxis), cough with blood ejection, asthma, child gan accumulation, dysentery. Isolated compounds: 4049, 21383.
- T1685 *Coreopsis lanceolata* (Asteraceae); XIAN YE JIN JI JU; Lance Coreopsis. Used part: leaf. TCM Effects: To resolve heat toxin, disperse swollen welling abscess. TCM Indications: Toxin swelling of sores. Isolated compounds: 12466, 12678.
- T1686 *Coreopsis* sp. (Asteraceae). Isolated compounds: 16024.
- T1687 *Coriandrum sativum* (Apiaceae); HU SUI ZI; Coriander Seed. Used part: dried ripe fruit. TCM Effects: To outthrust papules, fortify stomach. TCM Indications: Food accumulation, inappetence, dysentery, hemorrhoids. Isolated compounds: 1596, 3048, 3771, 3772, 5811, 5812, 5813, 5814, 5897, 6482, 9879, 10005, 10014, 10040, 10326, 10604, 10605, 10944, 10953, 12843, 14423, 14425, 17528, 17911, 20988.
- T1688 *Coriaria angustissima* (Coriariaceae); XIA MA SANG; Narrow Coriaria\*. Isolated compounds: 22145.
- T1689 *Coriaria arborea* (Coriariaceae); CAI SHI MU MA SANG; Arboreous Coriaria\*. Isolated compounds: 13711.
- T1690 *Coriaria japonica* (Coriariaceae); RI BEN MA SANG; Japanese Coriaria\*. Isolated compounds: 4051, 4052, 4053, 4054, 5732, 7518, 8311, 19057, 22145.
- T1691 *Coriaria myrtifolia* (Coriariaceae); DI ZHONG HAI MA SANG; Mediterranean Coriaria. Isolated compounds: 4051.
- T1692 *Coriaria sinica* [Syn. *Coriaria nepalensis*] (Coriariaceae); MA SANG; Chinese Coriaria. Used part: root. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Rheumatism numbness, wind-fire toothache, phlegm-rheum, lump glomus, scrofula, knocks and falls, acute conjunctivitis, burns and scalds. Isolated compounds: 1535, 4051, 8095, 9935, 22145.
- T1693 *Coriaria sinica* [Syn. *Coriaria nepalensis*] (Coriariaceae); MA SANG YE; Chinese Coriaria Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, kill worms. TCM Indications: Welling abscess and flat abscess, toxin swelling, scab and *lai*, yellow-water sore, scalds. Isolated compounds: 4051, 4057, 8095, 22145.
- T1694 *Coriaria* sp. (Coriariaceae). Isolated compounds: 22145.
- T1695 *Coriaria thymifolia* (Coriariaceae); BAI LI XIANG YE MA SANG; Thymeleaf Coriaria\*. Isolated compounds: 4051.
- T1696 *Cornus capitata* [Syn. *Dendrobenthamia capitata*] (Cornaceae); JI SU ZI; Evergreen Dogwood. Used part: fruit. TCM Effects: To disperse accumulation and kill worms, clear heat and resolve toxin, disinhibit water and disperse edema. TCM Indications: Hepatitis, food accumulation, lung heat cough, ascariasis, edema. Isolated compounds: 5567, 5568, 6345, 9869, 17171.
- T1697 *Cornus controversa* [Syn. *Bothrocaryum controversum*] (Cornaceae); DENG TAI SHU; Giant Dogwood. Used part: bark or root cortex, leaf. TCM Effects: To clear heat and calm liver, disperse swelling and relieve pain. TCM Indications: Headache, dizziness, swelling pain in throat, aching pain in joints, painful swelling from knocks and falls. Isolated compounds: 2928, 5513, 8103.
- T1698 *Cornus officinalis* [Syn. *Macrocarpium officinale*] (Cornaceae); SHAN ZHU YU; Asiatic Cornelian Cherry. Used part: fruit. TCM Effects: To supplement liver and kidney, rough essence and stem desertion. TCM Indications: Dizziness and tinnitus, aching in lumbus and knees, impotence and emission, enuresis and frequent urination, flooding and spotting with vaginal discharge, vacuity and profuse sweating, vacuity desertion due to great sweating, diabetes mellitus due to internal heat, dysmenorrhea. Isolated compounds: 957, 1723, 1832, 2282, 4060, 4062, 4063, 4064, 4065, 4943, 4951, 5520, 5764, 6745, 7518, 7523, 8011, 8095, 9486, 11218, 11268, 11735, 12891, 12950, 13419, 13849, 14607, 14982, 16050, 18656, 20503, 20715, 21053, 21641, 21642, 22270, 22397.
- T1699 *Cornus suecica* (Cornaceae); AI LAI MU; Dwarf Cornel. Isolated compounds: 8276, 14933.
- T1700 *Cornutia grandifolia* var. *intermedia* (Verbenaceae); ZHONG JIAN DA YE KE NU CAO; Intermediate Largeleaf Chastetree\*. Isolated compounds: 4066, 4067, 4068, 4069, 4070, 4071, 4072, 4073, 4074, 4075.

- T1701 *Coronilla* spp. (Fabaceae). Isolated compounds: 22195.
- T1702 *Coronilla varia* (Fabaceae); DUO BIAN XIAO GUAN HUA; Crown Vetch. Isolated compounds: 10915, 19542, 22195.
- T1703 *Corsinia coriandrina* (Corsiaceae); GE ZHI HUA DI QIAN. Isolated compounds: 4093, 4094, 4095, 6292.
- T1704 *Cortinarius* spp. (Cortinariaceae). Isolated compounds: 1999, 21459, 21460.
- T1705 *Corydalis adunca* (Papaveraceae); HUI LV YAN HU SUO; Greyish-green Corydalis. Used part: whole herb. TCM Effects: To clear lung and relieve cough, clear liver and disinhibit gallbladder, relieve pain. TCM Indications: Lung heat cough, fever and chest pain, liver-gallbladder damp-heat, pain in rib-side, fever, anorexy for greasy food, jaundice, damp-heat diarrhea. Isolated compounds: 2303, 4032, 4103, 4889, 4890, 16555, 17983.
- T1706 *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*] (Papaveraceae); DONG BEI YAN HU SUO; Amur Corydalis. Equivalent plant: *Corydalis repens*. Used part: tuber. TCM Effects: To quicken blood and dissipate stasis, rectify *qi* and relieve pain. TCM Indications: Pain in lumbus and knees, pain in heart and abdomen, dysmenorrhea, menstrual disorder, postpartum stasis stagnation abdominal pain, flooding and spotting, concretion and conglomeration, knocks and falls. Isolated compounds: 930, 1023, 2350, 4032, 4103, 4889, 8513, 14252, 16555, 17983.
- T1707 *Corydalis aurea* (Papaveraceae); JIN HUANG JIN; Golden Corydalis. Isolated compounds: 3114, 4121.
- T1708 *Corydalis bulbosa* [Syn. *Corydalis solida*] (Papaveraceae); SHAN YAN HU SUO; Bird-in-a-bush. Isolated compounds: 2734, 8513, 15917, 15918.
- T1709 *Corydalis bungeana* (Papaveraceae); KU DI DING; Bunge Corydalis. Used part: whole herb. TCM Effects: To clear heat toxin, disperse swollen welling abscess. TCM Indications: Influenza, infection of upper respiratory tract, tonsillitis, infective hepatitis, enteritis, dysentery, nephritis, parotitis, conjunctivitis, acute appendicitis, clove sore and swollen welling abscess, scrofula. Isolated compounds: 359, 2350, 2744, 4116, 9938, 12028, 12029, 14360, 14372, 15817, 17983, 18327, 18328, 21061, 22958.
- T1710 *Corydalis campulicarpa* (Papaveraceae). Isolated compounds: 16128.
- T1711 *Corydalis caucasica* (Papaveraceae); GAO JIA SUO ZI JIN; Caucasian Corydalis\*. Isolated compounds: 2734.
- T1712 *Corydalis cava* (Papaveraceae); AO XIAN ZI JIN; Bulbous Corydalis. Isolated compounds: 2734, 3057, 11256, 11344, 11348.
- T1713 *Corydalis cheilanthifolia* (Papaveraceae); HUA ZI JIN; Chinese Corydalis. Isolated compounds: 3057, 16128.
- T1714 *Corydalis claviculata* (Papaveraceae); BANG ZHUANG ZI JIN; Climbing Corydalis. Isolated compounds: 4350, 4351, 4353, 12641.
- T1715 *Corydalis decumbens* [Syn. *Corydalis amabilis*] (Papaveraceae); XIA TIAN WU; Decumbent Corydalis. Used part: tuber. TCM Effects: To move *qi* and quicken blood, free network vessels and relieve pain. TCM Indications: Pain in deep tissues, neuralgia, swelling pain from fracture, hypertension, hemiplegia, sequel of poliomyelitis, sciatica, rheumatic arthritis, knocks and falls. Isolated compounds: 642, 643, 2001, 2350, 2734, 4032, 4103, 7768, 13716, 16555, 17983, 21061, 21077.
- T1716 *Corydalis gigantea* (Papaveraceae); JU ZI JIN; Gigantic Corydalis\*. Used part: whole herb. TCM Effects: To settle pain and calm. TCM Indications: Various pains. Isolated compounds: 2350, 5708.
- T1717 *Corydalis gortschakovii* (Papaveraceae); GE CAI KE SHI ZI JIN; Gortschakov Corydalis\*. Isolated compounds: 6552.
- T1718 *Corydalis goviana* (Papaveraceae); KU MANG HUANG JIN; Govan Corydalis. Isolated compounds: 16128, 18519.
- T1719 *Corydalis incisa* (Papaveraceae); ZI HUA YU DENG CAO; Incised Corydalis. Used part: whole herb or root. TCM Effects: To resolve toxin and kill worms, relieve pain. TCM Indications: Toxin swelling of sores, scab and *lai*, intractable lichen, eczema, poisonous snake bite. Isolated compounds: 359, 438, 642, 3494, 4032, 4050, 4099, 4102, 4105, 4116, 4117, 4122, 6874, 7899, 9938, 11346, 16303, 16547, 18655, 19200, 19284, 19566, 21062, 22732.
- T1720 *Corydalis ledebouriana* (Papaveraceae); DUI YE YUAN HU; Ledebour Corydalis\*. Isolated compounds: 2303, 4032, 4103, 4889, 5708, 12599, 12600, 12602, 12603, 16555, 17983.
- T1721 *Corydalis linearoides* (Papaveraceae); TIAO LIE HUANG JIN; Linearsegmented Corydalis. Used part: whole herb or tuber. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, itchy skin, knocks and falls. Isolated compounds: 643.
- T1722 *Corydalis longicalcarata* (Papaveraceae); CHANG JU YAN HU SUO; Longspur Corydalis\*. Isolated compounds: 2303, 4032, 4103, 4889, 4890, 16555, 17983.
- T1723 *Corydalis lutea* (Papaveraceae); SHEN HUANG ZI JIN; Dark-yellow Corydalis. Isolated compounds: 11344, 11851.
- T1724 *Corydalis marschalliana* (Papaveraceae); MA CHANG LI ZI JIN; Marschall Corydalis \*. Isolated compounds: 2734, 4106.
- T1725 *Corydalis micrantha* (Papaveraceae); XIAO HUA ZI JIN; Micranthine Corydalis\*. Isolated compounds: 3114.
- T1726 *Corydalis montana* (Papaveraceae); MENG DA NA ZI JIN; Montana Corydalis\*. Isolated compounds: 3114.
- T1727 *Corydalis mucronifera* (Papaveraceae); BIAN BING HUANG JIN; Flatstiped Corydalis. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, relieve pain. TCM Indications: Influenza, warm disease fever, gastritis, ulcer, dysentery, sciatica, swelling pain of sore and boil. Isolated compounds: 642, 2350.
- T1728 *Corydalis ochotensis* (Papaveraceae); HUANG ZI JIN; Ochotsk Corydalis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swollen pain of sore toxin, dysentery, tuberculosis and hemoptysis. Isolated compounds: 11571, 12797, 15917, 15918.
- T1729 *Corydalis ochotensis* var. *raddeana* (Papaveraceae); XIAO HUANG ZI JIN; Small Ochotsk Corydalis. Isolated compounds: 15917, 15918, 18519.
- T1730 *Corydalis ophiocarpa* (Papaveraceae); SHE GUO HUANG JIN; Snakefruit Corydalis. Used part: whole herb. TCM Effects: To quicken blood and relieve pain, dispel wind and relieve itch. TCM Indications: Knocks and falls, itchy skin. Isolated compounds: 643, 4121, 16128, 16129.
- T1731 *Corydalis pallida* (Papaveraceae); JU HUA HUANG LIAN; Yellowflower Corydalis. Used part: root. TCM Effects: To clear heat

- and resolve toxin, disperse swelling and relieve pain. TCM Indications: Welling abscess and boil, innominate toxin swelling. Isolated compounds: 2734, 3114, 3115, 4032, 4104, 4121, 4290, 5708, 7451, 15659, 16473, 16547, 19200, 19284, 19566, 20416, 21062, 21077, 22732.
- T1732 *Corydalis pallida* var. *tenuis* (Papaveraceae); XI SHEN SHAN ZI JIN; Tenuous Corydalis\*. Isolated compounds: 3114, 4889, 19200.
- T1733 *Corydalis racemosa* (Papaveraceae); XIAO HUA HUANG JIN; Racemose Corydalis. Used part: whole herb or root. TCM Effects: To clear heat and disinherit damp, resolve toxin and kill worms. TCM Indications: Damp-heat diarrhea, dysentery, jaundice, red eyes with gall, otitis media, sore toxin, scab and lichen, poisonous snake bite. Isolated compounds: 21077.
- T1734 *Corydalis remota* [Syn. *Corydalis bulbosa* var. *typica*] (Papaveraceae); CHI BAN YAN HU SUO; Toothedpetal Corydalis. Used part: tuber. TCM Effects: To quicken blood and dissipate stasis, move *qi* and relieve pain. TCM Indications: Pain in lumbus and knees, pain in heart and abdomen, dysmenorrhea, postpartum stasis stagnation abdominal pain, painful swelling from knocks and falls. Isolated compounds: 930, 2303, 4032, 4103, 4106, 16555, 17983, 20369, 21061, 21077.
- T1735 *Corydalis repens* (Papaveraceae); QUAN YE YAN HU SUO; Creeping Corydalis. Used part: tuber. TCM Effects: See *Corydalis ambigua* var. *amurensis*. TCM Indications: See *Corydalis ambigua* var. *amurensis*. Isolated compounds: 642, 4032, 16555, 17983, 21061.
- T1736 *Corydalis repens* var. *humosides* (Papaveraceae); TU YAN HU; Repent Corydalis\*. Isolated compounds: 642.
- T1737 *Corydalis rosea* (Papaveraceae); MEI GUI HONG JIN; Rose Corydalis\*. Isolated compounds: 643.
- T1738 *Corydalis rotundatour* (Papaveraceae); YUAN YE SHAN WU GUI; Roundleaf Corydalis\*. Isolated compounds: 3057.
- T1739 *Corydalis scouleri* (Papaveraceae); SI KAO LE ZI JIN; Scouler Corydalis\*. Isolated compounds: 643.
- T1740 *Corydalis sempervirens* (Papaveraceae); CANG BAI ZI JIN; Pale Corydalis. Isolated compounds: 643.
- T1741 *Corydalis sewerzowi* (Papaveraceae); XIE SHI ZI JIN; Sewerzow Corydalis\*. Isolated compounds: 4058.
- T1742 *Corydalis sibirica* (Papaveraceae); BEI ZI JIN; Siberian Corydalis. Isolated compounds: 4058, 15918.
- T1743 *Corydalis* spp. (Papaveraceae). Isolated compounds: 3498, 16900.
- T1744 *Corydalis stricta* (Papaveraceae); ZHI LI ZI JIN. Isolated compounds: 9704.
- T1745 *Corydalis suaveolens* [Syn. *Corydalis sheareri*] (Papaveraceae); JIAN JU ZI JIN; Sharpspur Corydalis. Used part: whole herb or tuber. TCM Effects: To quicken blood and relieve pain, clear heat and resolve toxin. TCM Indications: Stomachache, abdominal pain and diarrhea, knocks and falls, swelling toxin of welling abscess and sore, red eyes with gall. Isolated compounds: 4116, 6552, 17983.
- T1746 *Corydalis taliensis* (Papaveraceae); WU WEI CAO; Tali Corydalis. Used part: whole herb. TCM Effects: To dispel wind, clear heat, relieve pain, clear liver and brighten eyes. TCM Indications: Wind-heat common cold, lung heat cough, tuberculosis and coughing of blood, hepatitis, wind-damp pain in sinews and bones, toothache, red eyes, eye screen. Isolated compounds: 2350, 15664.
- T1747 *Corydalis thalictrifolia* (Papaveraceae); YAN HUANG LIAN; Rockliving Corydalis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp, stanch bleeding and relieve pain. TCM Indications: Hepatitis, oral ulcer, acute conjunctivitis nephelium, dysentery, abdominal pain and diarrhea, bleeding from hemorrhoids. Isolated compounds: 642, 21250.
- T1748 *Corydalis tuberosa* (Papaveraceae); KUAI JING ZI JIN; Tuberos Corydalis\*. Isolated compounds: 11344.
- T1749 *Corydalis vaginans* (Papaveraceae). Isolated compounds: 15918.
- T1750 *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*] (Papaveraceae); YAN HU SUO; Yanhusuo. Used part: rhizome. TCM Effects: To quicken blood, disinherit *qi*, relieve pain. TCM Indications: Chest and rib-side pain, pain in stomach duct and abdomen, neuralgia, gastrointestinal spasm, amenorrhea and dysmenorrhea, postpartum stasis stagnation abdominal pain, painful swelling from knocks and falls. Isolated compounds: 930, 2303, 2350, 3057, 3934, 4032, 4098, 4103, 4104, 4106, 4122, 4888, 4889, 4890, 7996, 8513, 11344, 11348, 12641, 12918, 14550, 15763, 16555, 17983, 18654, 19566, 20416, 21056, 21061, 21062, 21077, 21259, 22934.
- T1751 *Corylus heterophylla* (Betulaceae); ZHEN; Siberian Hazelnut. Used part: kernel. TCM Effects: To fortify spleen and harmonize stomach, moisten lung and relieve cough. TCM Indications: weakness during convalescence, spleen vacuity diarrhea, inappetence, cough. Isolated compounds: 9469.
- T1752 *Corynanthe johimbe* (Rubiaceae); KE NAN SHU; Corinan Tree\*. Isolated compounds: 22921.
- T1753 *Cosmos bipinnata* (Asteraceae); DA BO SI JU; Mexican Aster. Used part: inflorescence, seedor whole herb. TCM Effects: To clear heat and resolve toxin, brighten eyes and transform damp. Isolated compounds: 1492, 22035.
- T1754 *Costus afer* (Zingiberaceae); FEI ZHOU BI QIAO JIANG; African Costus\*. Isolated compounds: 668.
- T1755 *Costus* sp. (Zingiberaceae). Isolated compounds: 6437, 8968.
- T1756 *Costus speciosus* (Zingiberaceae); ZHANG LIU TOU; Canereed Spiralflag. Used part: rhizome. TCM Effects: To move water and disperse swelling. TCM Indications: Ascites, white turbidity, swollen welling abscess, malign sore. Isolated compounds: 6440, 8968, 12488, 17973, 17975, 19987, 21383.
- T1757 *Costus spicatus* (Zingiberaceae); SUI ZHUANG BI QIAO JIANG; Cana do brejo (in Brazil). Isolated compounds: 12016, 20660.
- T1758 *Cotinus coggygia* (Anacardiaceae); HUANG LU; Common Smoketree. Used part: wood. TCM Effects: To eliminate heat vexation, resolve liquor jaundice. TCM Indications: Icterohepatitis, red eyes, lacquer sore, burns and scalds. Isolated compounds: 1399, 1400, 8095, 14454, 20481, 20482.
- T1759 *Cotinus coggygia* var. *cinerea* (Anacardiaceae); HUANG LU ZHI YE; Common Smoketree Branch-leaf. Used part: branchlet-leaf. TCM Effects: To clear damp heat. TCM Indications: Jaundice, lacquer sore, burns and scalds. Isolated compounds: 4439, 8095, 17027, 21959.
- T1760 *Cotinus* sp. (Anacardiaceae). Isolated compounds: 16836, 20481.
- T1761 *Cotoneaster pannosus* (Rosaceae); ZHAN MAO XUN ZI; Silverleaf Cotoneaster. Isolated compounds: 2384.
- T1762 *Cotoneaster* spp. (Rosaceae). Isolated compounds: 17869.

- T1763 *Cotylelobium lanceolatum* (Dipterocarpaceae). Isolated compounds: 4130, 4131, 4132.
- T1764 *Couepia ulei*. Isolated compounds: 1384, 7670.
- T1765 *Coussarea brevicaulis*. Isolated compounds: 2149, 4194, 7023, 19586.
- T1766 *Cowania mexicana* (Rosaceae); XUAN YA MEI GUI; Cliffrose. Isolated compounds: 16304, 16314.
- T1767 *Craibiodendron yunnanese* (Ericaceae); JIN YE ZI; Yunnan Craibiodendron. Used part: leaf. TCM Effects: To dispel wind and quicken blood, free network vessels and relieve pain. TCM Indications: Impediment pain, hemiplegia, knocks and falls. Isolated compounds: 1850, 8996, 12727.
- T1768 *Crassostrea gigas* (Ostreidae); MU LI; Oyster. Isolated compounds: 5874, 7217, 21085.
- T1769 *Crataegus cuneata* (Rosaceae); YE SHAN ZHA; Nippon Hawthorn. Equivalent plant: *Crataegus sanguinea*, *Crataegus kansuensis*, *Crataegus maximowiczii*, *Crataegus scabrifolia*. Used part: fruit. TCM Effects: To fortify spleen and disperse food, quicken blood and transform stasis. TCM Indications: Food stagnation, meat-type food accumulation, distending pain in stomach duct, postpartum blood stasis abdominal pain, lacquer sore, frostbite. Isolated compounds: 3551, 3766, 6854, 10887, 13419, 19087, 22270.
- T1770 *Crataegus hupehensis* HU BEI SHAN ZHA; Hupeh Hawthorn. Isolated compounds: 10887, 19087, 22270, 22581.
- T1771 *Crataegus kansuensis* GAN SU SHAN ZHA; Kansu Hawthorn. Used part: fruit. TCM Effects: See *Crataegus cuneata*. TCM Indications: See *Crataegus cuneata*. Isolated compounds: 10887, 19087, 22581.
- T1772 *Crataegus maximowiczii* MAO SHAN ZHA; Maximowicz Hawthorn. Used part: fruit. TCM Effects: See *Crataegus cuneata*. TCM Indications: See *Crataegus cuneata*. Isolated compounds: 10887, 19087, 22581.
- T1773 *Crataegus monogyna* (Rosaceae); DAN ZI SHAN ZHA; Common Hawthorn. Isolated compounds: 6853, 17876.
- T1774 *Crataegus oxyacantha* (Rosaceae); YING GUO SHAN ZHA; Hawthorn. Isolated compounds: 664, 1102, 3551, 22581.
- T1775 *Crataegus pinnatifida* (Rosaceae); SHAN ZHA; Chinese Hawthorn. Equivalent plant: *Crataegus pinnatifida* var. *major*. Used part: fruit. TCM Effects: To fortify stomach and disperse food, move *qi* and dissipate stasis, lower cholesterol. TCM Indications: Hyperlipemia, myocardial ischemia, angina pectoris, meat-type food accumulation, distention fullness in stomach duct, abdominal pain and diarrhea, amenorrhea due to blood stasis, postpartum stasis stagnation abdominal pain, stabbing pain in heart and abdomen, mounting *qi*. Isolated compounds: 351, 1102, 1845, 2790, 2887, 3551, 3766, 4217, 4218, 4219, 4834, 6318, 6329, 6334, 6335, 6356, 6421, 6854, 7281, 7431, 7434, 7462, 7464, 9408, 9486, 10887, 12891, 12893, 14155, 14270, 14274, 14482, 14488, 14622, 14631, 16285, 17920, 17936, 19087, 20280, 20444, 21942, 21947, 21948, 21952, 21963, 21965, 22270, 22581.
- T1776 *Crataegus pinnatifida* (Rosaceae); SHAN ZHA HUA; Chinese Hawthorn Flower. Used part: flower. TCM Effects: To lower blood pressure. TCM Indications: Hypertension. Isolated compounds: 2394.
- T1777 *Crataegus pinnatifida* (Rosaceae); SHAN ZHA YE; Chinese Hawthorn Leaf. Used part: leaf. TCM Effects: To relieve itch, close sores, lower blood pressure. TCM Indications: Hypertension, lacquer sore, enduring sores. Isolated compounds: 351, 4219, 12714.
- T1778 *Crataegus pinnatifida* var. *major* (Rosaceae); SHAN LI HONG; Red Fruit. Used part: fruit. TCM Effects: See *Crataegus pinnatifida*. TCM Indications: See *Crataegus pinnatifida*. Isolated compounds: 1110, 3551, 3766, 6854, 10887, 17393, 17394, 17395, 17396, 17397, 19087, 22270, 22581.
- T1779 *Crataegus pinnatifida* var. *psilosa* WU MAO SHAN ZHA; Hairless Chinese Hawthorn. Isolated compounds: 10887, 19087, 22581.
- T1780 *Crataegus sanguinea* LIAO NING SHAN ZHA; Redhaw Hawthorn. Used part: fruit. TCM Effects: See *Crataegus cuneata*. TCM Indications: See *Crataegus cuneata*. Isolated compounds: 10887, 19087, 22581.
- T1781 *Crataegus scabrifolia* YUN NAN SHAN ZHA; Yunnan Hawthorn. Used part: fruit. TCM Effects: See *Crataegus cuneata*. TCM Indications: See *Crataegus cuneata*. Isolated compounds: 1845, 3766, 10887, 19087, 20444, 22581.
- T1782 *Crataegus* spp. (Rosaceae). Isolated compounds: 17083, 17869.
- T1783 *Cratoxylum arborescens* (Clusiaceae); QIAO MU ZHUANG HUANG NIU MU; Genonggang. Isolated compounds: 5827, 6183, 8032, 8315, 8325.
- T1784 *Cratoxylum cochinchinense* (Clusiaceae); HUANG NIU MU; Common Oxwood. Used part: root, bark or stem-leaf. TCM Effects: To clear heat and resolve toxin, transform damp and disperse stagnation, dispel stasis and disperse swelling. TCM Indications: Common cold, summerheat stroke with fever, diarrhea, jaundice, knocks and falls, swelling welling abscess and sore and boil. Isolated compounds: 3370, 3870, 3871, 3872, 3873, 5044, 8219, 8221, 8323, 9857, 13492, 13493, 17661, 21691.
- T1785 *Cratoxylum prunifolium* (Clusiaceae); KU DING CHA; Plumleaf Cratoxylum. Used part: tender leaf. TCM Effects: To clear heat and resolve summerheat, transform damp and disperse stagnation. TCM Indications: Common cold, summerheat stroke with fever, jaundice, acute gastroenteritis, bacillary dysentery, sore and boil. Isolated compounds: 15715.
- T1786 *Cremanthodium ellisii* (Asteraceae); KUI GEN CHUI TOU JU; Root-tuber Cremanthodium. Used part: whole herb. TCM Effects: To relieve cough and dispel phlegm, loosen chest and disinhibit *qi*. TCM Indications: Cough of phlegm asthma, taxation damage, senile vacuity weakness headache. Isolated compounds: 14627.
- T1787 *Cremastra appendiculata* (Orchidaceae); DU JUAN LAN; Appendiculate Cremastra. Used part: pseudobulb. TCM Effects: To clear heat and resolve toxin, disperse swelling and dissipate binds. TCM Indications: Malign sores with welling abscess and flat abscess, scrofula, throat pain and throat impediment, snake or insect bites. Isolated compounds: 5910.
- T1788 *Crepis mollis* (Asteraceae); ROU SE HUAN YANG SHEN; Soft Hawksbeard. Isolated compounds: 10745.
- T1789 *Crepis napifera* (Asteraceae); YUAN JING HUAN YANG SHEN; Turnip-shaped Hawksbeard. Used part: root or whole herb. TCM Effects: To clear lung and relieve cough, nourish liver and brighten eyes. TCM Indications: Lung heat cough, pertussis, night blindness. Isolated compounds: 5724, 15262, 20714.

- T1790 *Crepis tingitana* (Asteraceae); NAN XI BAN YA HUAN YANG SHEN; Southern-Spain Hawksbeard\*. Isolated compounds: 8706.
- T1791 *Crescentia cujete* (Bignoniaceae); PAO DAN GUO; Calabash-tree. Isolated compounds: 12225.
- T1792 *Crinodendron hookerianum* (Elaeocarpaceae); HONG BAI HE MU; Lantern-tree. Isolated compounds: 4319, 4321, 4322.
- T1793 *Crinum amabile* (Amaryllidaceae); SU MEN DA LA WEN SHU LAN; Lovely Crinum\*. Isolated compounds: 9547.
- T1794 *Crinum asiaticum* (Amaryllidaceae); YA ZHOU WEN SHU LAN; Grand Crinum. Isolated compounds: 4237, 4238, 4239, 22232.
- T1795 *Crinum asiaticum* var. *japonicum* (Amaryllidaceae); RI BEN WEN SHU LAN; Japanese Crinum. Isolated compounds: 4235, 10403, 13241, 15750, 17769.
- T1796 *Crinum asiaticum* var. *sinicum* (Amaryllidaceae); WEN SHU LAN; Chinese Crinum. Used part: root and bulb. TCM Effects: To clear heat and resolve toxin, dispel stasis and relieve pain. TCM Indications: Cough, throat pain, knocks and falls, toothache. Isolated compounds: 13241, 20891.
- T1797 *Crinum bulbispermum* (Amaryllidaceae); LIN JING ZHONG ZI WEN SHU LAN; Bulb-spermo Crinum\*. Isolated compounds: 408, 4235, 4237, 5255, 5256, 5978, 7414, 9946, 10018, 10404, 11484, 14369.
- T1798 *Crinum kirkii* (Amaryllidaceae); KEN NI YA WEN SHU LAN; Kenya Crinum\*. Isolated compounds: 506, 4866, 15716.
- T1799 *Crinum latifolium* (Amaryllidaceae); XI NAN WEN SHU LAN; Broadleaf Crinum. Used part: leaf. TCM Effects: To quicken blood and dispel stasis, free network vessels and relieve pain, clear heat and resolve toxin. TCM Indications: Wound swelling from knocks and falls, fracture, pain in joints, toothache, malign sore and swelling toxin, hemorrhoids, zoster, psoriasis. Isolated compounds: 9547, 13241.
- T1800 *Crinum laurentii* (Amaryllidaceae); LAO SHI WEN SHU LAN; Laurent Crinum\*. Isolated compounds: 1021.
- T1801 *Crinum macowanii* (Amaryllidaceae); GUAN MU WEN SHU LAN; Shrubby Crinum\* 'bush' or 'march lily'. Isolated compounds: 2751, 3516, 4240, 4982, 6882, 9206, 12296, 13241, 13297, 17751, 22230.
- T1802 *Crinum macrantherum* (Amaryllidaceae); DA HUA YAO WEN SHU LAN; Macroanther Crinum\*. Isolated compounds: 2219.
- T1803 *Crinum moorei* (Amaryllidaceae). Isolated compounds: 460, 3516, 4236, 4241, 6842, 6883, 7038, 17751, 22229.
- T1804 *Cristaria plicata*; *Hyriopsis cumingii* ZHEN ZHU MU; Mother-of-pearl. Used part: shell. TCM Effects: To calm liver and subdue yang, quiet spirit and settle fright, clear liver and brighten eyes. TCM Indications: Headache and dizziness, palpitation and insomnia, mania and withdrawal, fright epilepsy, liver heat and red eyes, eye screen. Isolated compounds: 17730.
- T1805 *Crocus antalyensis* (Iridaceae). Isolated compounds: 12041.
- T1806 *Crocus antalyensis* cv (Iridaceae); HE LAN ZHONG ZHI FAN HONG HUA; Holland Planted Saffron\*. Isolated compounds: 5025, 17023.
- T1807 *Crocus chrysanthus-biflorus* (Iridaceae); SHUANG HUA FAN HONG HUA; Biflower Crocus\*. Isolated compounds: 12054, 12055, 12056, 15182, 18366.
- T1808 *Crocus sativus* (Iridaceae); ZANG HONG HUA; Saffron Crocus Stigma. Used part: stigma. TCM Effects: To quicken blood and transform stasis, dissipate depression and open binds. TCM Indications: Anxiety and depression, glomus and oppression in chest and diaphragm, blood ejection, cold damage mania, fright palpitation, amenorrhea, postpartum blood stasis abdominal pain, painful swelling from knocks and falls. Isolated compounds: 618, 618, 2224, 4245, 4245, 4246, 4247, 4248, 4250, 4251, 4252, 4253, 4254, 4255, 4256, 4257, 4258, 4259, 4260, 4261, 4262, 4263, 4264, 5763, 5783, 8300, 9301, 9818, 9824, 10524, 10626, 10807, 10807, 10808, 10809, 11656, 11659, 11668, 12015, 12020, 12051, 12062, 13480, 13931, 14652, 14802, 15526, 17263, 17264, 17330, 17330, 17967, 17971, 18259, 18259, 18834, 19120, 20088, 21958, 21967, 22170, 22237, 22237, 22976.
- T1809 *Crocus speciosus* (Iridaceae); MEI LI FAN HONG HUA; Pretty Crocus. Isolated compounds: 4249, 12041.
- T1810 *Crooomia japonica* (Stemonaceae); JIN GANG DA; Japanese Croomia. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Swelling pain in throat, poisonous snake bite, knocks and falls. Isolated compounds: 4265, 16501.
- T1811 *Crossopetalum gaumeri* (Celastraceae); GAO MEI YING BAN; Gaumei Fringe-petal\*. Isolated compounds: 3368, 6049, 10692, 17862, 19373, 19376, 19637, 19638, 21830.
- T1812 *Crossostephium chinense* (Asteraceae); FU RONG JU GEN; Chinese Crossostephium Root. Used part: root. TCM Effects: To dispel wind-damp, warm center and relieve pain. TCM Indications: Rheumatic arthritis, cold pain in stomach duct. Isolated compounds: 20712, 20713.
- T1813 *Crotalaria albida* (Fabaceae); HUANG HUA DI DING; Diluteyellow Crotalaria. Used part: whole herb. TCM Effects: To drain lung and disperse phlegm, clear heat and disinherit damp, resolve toxin and disperse swelling. TCM Indications: Cough and asthma with abundant phlegm, damp-heat diarrhea dysentery, jaundice, dribbling pain of urination, insomnia and vexation, mammary welling abscess, swelling toxin of welling abscess and sore. Isolated compounds: 4244, 12113.
- T1814 *Crotalaria anagyroides* (Fabaceae); MEI ZHOU YE BAI HE; American Crotalaria\*. Isolated compounds: 4266.
- T1815 *Crotalaria assamica* (Fabaceae); ZI XIAO RONG ZI; Assam Crotalaria Seed. Used part: seed. TCM Effects: To dispel wind and eliminate damp, stanch bleeding and disperse swelling, kill worms. TCM Indications: Wind-damp bone pain, knocks and falls, bleeding due to external injury, child gan accumulation. Isolated compounds: 1912, 14923.
- T1816 *Crotalaria breviflora* (Fabaceae); DUAN HUA ZHU SHI DOU; Shortflower Crotalaria\*. Isolated compounds: 11091.
- T1817 *Crotalaria brevifolia* (Fabaceae); DUAN YE ZHU SHI DOU; Shortleaf Crotalaria\*. Isolated compounds: 22277.
- T1818 *Crotalaria crispata* (Fabaceae); ZOU BO ZHUANG ZHU SHI DOU; Crispate Crotalaria\*. Isolated compounds: 7994, 14923.
- T1819 *Crotalaria ferruginea* (Fabaceae); XIANG LING CAO; Rust-coloured Crotalaria. Used part: whole herb with root. TCM Effects: To enrich liver and nourish kidney, relieve cough and calm asthma, resolve toxin and disinherit damp. TCM Indications: Tinnitus, dizziness and dim vision, emission, profuse menstruation, vaginal discharge, enduring cough with bloody phlegm, asthma, nephritis, inhibited urination,



- tonsillitis, parotitis, swelling toxin of clove sore. Isolated compounds: 15018, 15596, 22277.
- T1820 *Crotalaria fulva* (Fabaceae); AN HUANG ZHU SHI DOU; Flavescent Crotalaria\*. Isolated compounds: 7994.
- T1821 *Crotalaria incana* (Fabaceae); GUANG YE ZHU SHI DOU; Shackshack Crotalaria. Isolated compounds: 4266, 11091, 22277.
- T1822 *Crotalaria intermedia* (Fabaceae); XI YE ZHU SHI DOU; Slender-leaf Crotalaria. Isolated compounds: 22277.
- T1823 *Crotalaria juncea* (Fabaceae); SHU MA; Sunn Crotalaria. Used part: root. TCM Effects: To disinhibit urine and resolve toxin. TCM Indications: Opacity of urine, dribbling pain of urination, urethral stone, scab and lichen, knocks and falls. Isolated compounds: 18842, 19712, 21560.
- T1824 *Crotalaria laburnifolia* (Fabaceae); JIN LIAN HUA ZHU SHI DOU; Laburnum Crotalaria\*. Isolated compounds: 4266, 19731.
- T1825 *Crotalaria madurensis* (Fabaceae); MA DU LA ZHU SHI DOU; Madura Crotalaria\*. Isolated compounds: 7994.
- T1826 *Crotalaria mucronata* (Fabaceae); ZHU SHI DOU; Striped Crotalaria. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and dissipate binds. TCM Indications: Chronic diarrhea, damp-heat diarrhea, dysentery, edema, pelvic inflammation, frequent urination in children, dribbling urination, child *gan* accumulation, mastitis, neurasthenia, insomnia. Isolated compounds: 15018, 22277.
- T1827 *Crotalaria nana* (Fabaceae); XIAO ZHU SHI DOU; Small Rattle-box. Isolated compounds: 14923.
- T1828 *Crotalaria paniculata* (Fabaceae); YUAN ZHUI ZHU SHI DOU; Paniculate Crotalaria\*. Isolated compounds: 7994.
- T1829 *Crotalaria quinquefolia* (Fabaceae); WU YE ZHU SHI DOU; Fiveleaf Crotalaria\*. Isolated compounds: 14923.
- T1830 *Crotalaria retusa* (Fabaceae); AO ZHU SHI DOU; Yellow-flowering Pea. Isolated compounds: 14923, 20140.
- T1831 *Crotalaria sessiliflora* (Fabaceae); YE BAI HE; Purpleflower Crotalaria. Used part: whole herb. TCM Effects: To clear heat, resolve toxin, disinhibit damp, disperse accumulation. TCM Indications: Dysentery, heat strangury, cough and asthma, wind-damp impediment pain, clove sore and swollen boil, poisonous snake bite, child *gan* accumulation, carcinoma of uterine cervix, carcinoma of esophagus, carcinoma of lung, carcinoma of liver, carcinoma of stomach, squamous carcinoma of skin. Isolated compounds: 14923, 21560.
- T1832 *Crotalaria* sp. (Fabaceae). Isolated compounds: 9318.
- T1833 *Crotalaria spartioides* (Fabaceae); YING ZHAO DOU ZHU SHI DOU; Sparteine Crotalaria\*. Isolated compounds: 18667.
- T1834 *Crotalaria spectabilis* (Fabaceae); MEI LI ZHU SHI DOU; Beautiful Crotalaria. Isolated compounds: 14923, 20140.
- T1835 *Crotalaria stipularia* (Fabaceae); TUO YE ZHU SHI DOU; Stipular Crotalaria\*. Isolated compounds: 14923.
- T1836 *Crotalaria tetragona* (Fabaceae); HUA JIN DAN; Tetragonal Crotalaria. Used part: whole herb or root. TCM Effects: To transform stagnation and relieve pain. TCM Indications: Abdominal pain, iron or wood intake. Isolated compounds: 21560, 21601.
- T1837 *Crotalaria usaramoensis* (Fabaceae); GUANG E ZHU SHI DOU; Glabroussepall Crotalaria. Isolated compounds: 18667, 22277.
- T1838 *Croton balsamifera* (Euphorbiaceae); XIANG BA DOU; Balsam Croton\*. Isolated compounds: 7837.
- T1839 *Croton cajucara* (Euphorbiaceae); KA ZHU BA DOU. Isolated compounds: 2932, 4893.
- T1840 *Croton campestris* (Euphorbiaceae); PING YUAN BA DOU. Isolated compounds: 22361, 22362, 22363.
- T1841 *Croton caudatus* var. *tomentosus* (Euphorbiaceae); MAO YE BA DOU; Tomentose Caudate Croton. Used part: whole herb. TCM Effects: To interrupt malaria and settle pain, soothe sinews and quicken blood. TCM Indications: Malaria with ardent fever, fright epilepsy, convulsion, wind-damp impediment pain, fracture, knocks and falls. Isolated compounds: 1113.
- T1842 *Croton cumingii* (Euphorbiaceae); KA MING BA DOU; Cuming Croton\*. Isolated compounds: 13374.
- T1843 *Croton draconoide* (Euphorbiaceae); DE LA KE BA DOU; Drac Croton\*. Isolated compounds: 20717.
- T1844 *Croton eluteria* (Euphorbiaceae); KU XIANG SHU; Cascarilla. Isolated compounds: 3248, 3249, 3250, 3251, 3252, 3253.
- T1845 *Croton flavens* (Euphorbiaceae); DAN HUANG BA DOU; Flavescent Croton\*. Isolated compounds: 22658.
- T1846 *Croton hovarum* (Euphorbiaceae). Isolated compounds: 3538, 5877, 5878, 6467.
- T1847 *Croton hutchinsonianus* (Euphorbiaceae). Isolated compounds: 10041, 10639.
- T1848 *Croton joufra* (Euphorbiaceae). Isolated compounds: 9971.
- T1849 *Croton lechleri* (Euphorbiaceae); LAI KE BA DOU; Lechler Croton\*. Isolated compounds: 12270, 12271, 20717.
- T1850 *Croton linearis* (Euphorbiaceae); XIAN YE BA DOU; Linear Croton\*. Isolated compounds: 11087, 17909.
- T1851 *Croton macrostachys* (Euphorbiaceae); CHANG SUI BA DOU; LongspikeCroton\*. Isolated compounds: 6156, 15367, 21495, 21496, 21851.
- T1852 *Croton nepetaefolius* (Euphorbiaceae); SI JING JIE BA DOU; Nepeta-like Croton\*. Isolated compounds: 6745, 7523.
- T1853 *Croton oblongifolius* [Syn. *Croton laevigatus*] (Euphorbiaceae); GUANG YE BA DOU; Nitidleaf Croton. Used part: leaf, root. TCM Effects: To free channels and quicken blood, interrupt malaria. TCM Indications: Swelling pain due to external injury, fracture, malaria. Isolated compounds: 225, 226, 248, 2251, 2618, 4268, 4269, 5942, 5944, 5945, 7122, 7156, 10285, 10306, 10307, 12178, 12180, 12413, 12414, 12415, 12416, 12417, 12423, 14543, 17118.
- T1854 *Croton salutaris* (Euphorbiaceae); YI KANG BA DOU; Salutory Croton\*. Isolated compounds: 7837.
- T1855 *Croton schiedeianus* (Euphorbiaceae); GE LUN BI YA BA DOU; Colombia Croton\*, Almirazillo. Isolated compounds: 4892, 5793, 7835, 9222, 9897, 9919, 9972, 11896, 13929, 14517.
- T1856 *Croton sparsiflorus* (Euphorbiaceae); SAN HUA BA DOU; Sparseflower Croton\*. Isolated compounds: 8524.
- T1857 *Croton sublyratus* (Euphorbiaceae); JIN QIN ZHUANG BA DOU; Lyrate-like Croton\*. Isolated compounds: 10523, 17549, 17550, 17551, 17552.
- T1858 *Croton tiglium* (Euphorbiaceae); BA DOU; Purging Croton. Used part: dried seed. TCM Effects: To drain precipitation and cold accumulation, expel water and disperse swelling, dispel phlegm and disinhibit throat,

- consume sore and kill worms. TCM Indications: Distention fullness and sudden pain in chest and abdomen, fecal stoppage, diarrhea and dysentery, edema and enlarged abdomen, phlegm-rheum asthma fullness, throat wind, throat impediment, concretion and conglomeration, welling abscess and flat abscess, malign sore and scab lichen. Isolated compounds: 482, 483, 484, 485, 1598, 4271, 4272, 4839, 9486, 11448, 12569, 12893, 14201, 15203, 17181, 17182, 17183, 17184, 17185, 17186, 17187, 17188, 17189, 17190, 17191, 17192, 17193, 17194, 17195, 19983, 20280, 21371, 21381, 21382.
- T1859 *Croton tonkinensis* (Euphorbiaceae); DONG JIN BA DOU; Viet Nam Croton\*; Kho Sam Cho La. Isolated compounds: 170, 171, 172, 173, 220, 221, 222, 223, 224, 247, 5305, 5306, 5307, 5309, 5936, 5939, 10282, 12183.
- T1860 *Croton urucurana* (Euphorbiaceae); WULU BA DOU; Wru Croton\*. Isolated compounds: 6967.
- T1861 *Croton zambesicus* (Euphorbiaceae); ZAN BI XI BA DOU; Zambesi Croton\*. Isolated compounds: 291, 1110, 2933, 4267, 4270, 4273, 4274, 4275, 10773, 11595, 17265, 19983, 20369, 21494, 21497, 21498.
- T1862 *Cryptocarya chinensis* (Lauraceae); HOU KE GUI; Chinese Cryptocarya. Isolated compounds: 1667, 2486, 3238, 3239, 3240, 4277, 4278, 5069, 5090, 5719, 6573, 7359, 7360, 9947, 9948, 10480, 11217, 11256, 11257, 11308, 11309, 11310, 11311, 11312, 11352, 14378, 15075, 15359, 17910.
- T1863 *Cryptocarya longifolia* (Lauraceae); CHANG YE HOU KE GUI; Longleaf Cryptocarya\*. Isolated compounds: 21255.
- T1864 *Cryptocarya strictifolia* (Lauraceae); ZHI LI YE HOU KE GUI; Strickleaf Cryptocarya\*. Isolated compounds: 20388.
- T1865 *Cryptolepis obtusa* (Asclepiadaceae); DUN XING BAI YE TENG; Obtuse Cryptolepis\*. Isolated compounds: 15909, 15912, 19987.
- T1866 *Cryptolepis sinensis* (Asclepiadaceae); BAI YE TENG; Chinese Cryptolepis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding, dissipate stasis and relieve pain. TCM Indications: Lung heat hemoptysis, tuberculosis and hemoptysis, stomach hemorrhage, swollen welling abscess, sore toxin, knife wound, knocks and falls, snake or insect bites. Isolated compounds: 5763.
- T1867 *Cryptomeria fortunei* (Taxodiaceae); LIU SHAN; Chinese Cedar. Used part: root cortex or bark. TCM Effects: To resolve toxin, kill worms, relieve itch. TCM Indications: Lichen sore, goose-foot wind, scalds. Isolated compounds: 4281, 4285, 4286, 4287, 4289, 7514, 9543, 12176, 12185, 19237.
- T1868 *Cryptomeria japonica* (Taxodiaceae); RI BEN LIU SHAN; Japanese Cedar. Isolated compounds: 2410, 3833, 3836, 4291, 7059, 7893, 13862, 20457, 20458, 20459, 20460, 20461, 20462, 20463, 20464.
- T1869 *Cryptotaenia japonica* (Apiaceae); YA ER QIN; Japanese Cryptotaenia. Used part: stem-leaf. TCM Effects: To resolve toxin and eliminate inflammation, quicken blood and disperse swelling. TCM Indications: Pneumonia, pulmonary welling abscess, strangury, mounting *qi*, wind-fire toothache, welling abscess and clove sore, zoster, itchy skin. Isolated compounds: 6482, 11535, 12843, 13800, 15926.
- T1870 *Cistus ladaniferus* (Cistaceae); SHU ZHI BAN RI HUA; Resinoid Cistus\*. Isolated compounds: 7481.
- T1871 *Cucubalus baccifer* (Caryophyllaceae); BAI NIU XI; Berry-bearing Campion. Used part: root. TCM Effects: To quicken blood and settle pain, joint bones and engender flesh. TCM Indications: Knocks and falls, fracture, wind-damp bone pain, menstrual disorder, scrofula, welling abscess and flat abscess. Isolated compounds: 11515, 13178, 14071.
- T1873 *Cucumis africanus* (Cucurbitaceae); FEI ZHOU HUANG GUA; African Cucumber\*. Isolated compounds: 4317.
- T1874 *Cucumis angolensis* (Cucurbitaceae); AN GE LA HUANG GUA; Angola Cucumber\*. Isolated compounds: 4321.
- T1874 *Cucumis hookeri* (Cucurbitaceae); HU KE HUANG GUA; Hooker Cucumber\*. Isolated compounds: 4315.
- T1875 *Cucumis leptodermus* (Cucurbitaceae); BO PI HUANG GUA; Lepto Peel Cucumber\*. Isolated compounds: 4315.
- T1876 *Cucumis melo* (Cucurbitaceae); GUA DI; Muskmelon Fruit Pedicel. Used part: fruit pedicel. TCM Effects: To promote vomiting, eliminate damp. TCM Indications: Wind stroke, epilepsy, throat impediment, indigestion of overnight food, distending pain in stomach duct, damp-heat jaundice, chronic hepatitis, cirrhosis. Isolated compounds: 3585, 4317, 4320, 6733.
- T1877 *Cucumis myriocarpus* (Cucurbitaceae); MI GUO HUANG GUA; Densefruit Cucumber\*. Isolated compounds: 4315.
- T1878 *Cucumis sativus* (Cucurbitaceae); HUANG GUA; Cucumber. Used part: fruit. TCM Effects: To clear heat, disinhibit water, resolve toxin. TCM Indications: Febrile diseases thirst, short voidings of reddish urine, burns and scalds, scant urine with edema, sweat macule, prickly heat. Isolated compounds: 4135, 4312, 4313, 4315, 4317, 4318, 4319, 9616, 11642, 11700, 11701, 11773, 11774, 11775, 11776, 14237, 14254, 15676, 15677, 15679, 16196, 22058, 22581.
- T1879 *Cucumis sativus* var. *hanzil* (Cucurbitaceae); KU HUANG GUA; Bitter Cucumber\*. Isolated compounds: 4318.
- T1880 *Cucurbita moschata* (Cucurbitaceae); NAN GUA; Cushaw. Used part: fruit. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Pulmonary welling abscess, asthma, swollen welling abscess, scalds, poisonous bee stings. Isolated compounds: 617, 2017, 3774, 4329, 14061, 21662.
- T1881 *Cucurbita moschata* (Cucurbitaceae); NAN GUA ZI; Cushaw Seed. Used part: seed. TCM Effects: To expel worms, promote lactation, disinhibit water and disperse edema. TCM Indications: Taeniasis, ascariasis, bilharziosis, ancylostomiasis, oxyuria disease, postpartum scant milk, postpartum edema, pertussis, hemorrhoids. Isolated compounds: 4329, 4330, 4331, 4332, 4333, 4334.
- T1882 *Cucurbita pepo* (Cucurbitaceae); XI HU LU; Pumpkin. Isolated compounds: 1043, 1044, 4314, 4329, 5938, 22975.
- T1883 *Cucurbita pepo* var. *akoda* (Cucurbitaceae); TAO NAN GUA; Peachliking Pumpkin. Isolated compounds: 4329, 22975.
- T1884 *Cudrania cochinchinensis* (Moraceae); GOU JI; Cochinchina Cudrania. Used part: root. TCM Effects: To dispel wind and free network vessels, clear heat and remove damp, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, knocks and falls, jaundice, parotitis, phthisis, gastric ulcer, duodenal ulcer, strangury-turbidity, tympanites, menstrual block, taxation damage and coughing of blood, clove sore and swollen welling abscess. Isolated

- compounds: 993, 1010, 1764, 2309, 3868, 3869, 4335, 4338, 4339, 4340, 4341, 4342, 4344, 4345, 4346, 4347, 5184, 5826, 5832, 8354, 8355, 8357, 8358, 8359, 9857, 11206, 11248, 14638, 15279, 21488, 21797, 22667.
- T1885 *Cudrania fruticosa* (Moraceae); ZHE TENG; Fructose Cudrania. Isolated compounds: 4336, 8356.
- T1886 *Cudrania javanensis* (Moraceae); ZHAO WA ZHE SHU; Java Cudrania\*. Isolated compounds: 18643.
- T1887 *Cudrania* sp. (Moraceae). Isolated compounds: 4337.
- T1888 *Cudrania tricuspidata* (Moraceae); ZHE SHU; Tricuspid Cudrania. Used part: wood. TCM Effects: To enrich and nourish blood vessel, harmonize spleen and stomach. TCM Indications: Vacuity detriment, flooding, malaria. Isolated compounds: 1809, 4343, 20254.
- T1889 *Cuminum cyminum* (Apiaceae); ZI RAN QIN; Cumin. Used part: fruit. TCM Effects: To dissipate cold and relieve pain, rectify *qi* and regulate center. TCM Indications: Cold pain in stomach duct and abdomen, indigestion, cold mounting with abdominal pain, menstrual disorder. Isolated compounds: 4358, 4359, 5798, 7388, 9950, 9951, 13750, 13751, 13756, 13757, 13758, 13759, 13764, 13768, 13769, 14145, 14423, 14424, 14425, 17054.
- T1890 *Cunninghamia konishii* (Taxodiaceae); TAI WAN SHAN MU; Konish Chinafir. Isolated compounds: 5954, 7159, 10295, 10303, 12411.
- T1891 *Cunonia macrophylla* (Cunoniaceae); DA YE KU NUO NI. Isolated compounds: 3490, 4055, 6757, 6758, 8095, 13428, 13429.
- T1892 *Cupania latifolia* (Sapindaceae); Guara, Mestizo, or Guacharaco (in Colombia). Isolated compounds: 16875.
- T1893 *Cuphea* sp. (Lythraceae). Isolated compounds: 3138.
- T1894 *Cupressus abramsiana* (Cupressaceae); AI SHI BAI MU; Abrams Cypress\*. Isolated compounds: 21347, 21348.
- T1895 *Cupressus arizonica* (Cupressaceae); LV GAN BAI; Arizona Cypress. Isolated compounds: 4376.
- T1896 *Cupressus funebris* (Cupressaceae); BAI SHU YE; Chinese Weeping Cypress Leaf. Used part: leaf. TCM Effects: To cool blood and stanch bleeding, close sores and engender flesh. TCM Indications: Blood ejection, blood dysentery, hemorrhoids, *lai*, scalds, knife wound, poisonous snake bite. Isolated compounds: 8002, 9543, 17140.
- T1897 *Cupressus macrocarpa* (Cupressaceae); DA GUO BAI MU; Monterey Cypress. Isolated compounds: 21347, 21348.
- T1898 *Cupressus sargentii* (Cupressaceae); SA JIN TE BAI MU; Sargent Cypress. Isolated compounds: 21347, 21348.
- T1899 *Cupressus sempervirens* (Cupressaceae); DI ZHONG HAI BAI MU; Mediterranean Cypress. Isolated compounds: 3354.
- T1900 *Curculigo capitulata* [Syn. *Leucojum capitulata*] (Hypoxidaceae); DA YE XIAN MAO; Largeleaf Curculigo. Used part: rhizome. TCM Effects: To supplement kidney and invigorate *yang*, dispel wind and eliminate damp, quicken blood and regulate menstruation. TCM Indications: Kidney vacuity cough asthma, impotence and emission, white turbidity vaginal discharge, limp aching lumbus and knees, wind-damp impediment pain, infertility due to uterus cold, menstrual disorder, flooding and spotting, prolapse of uterus, knocks and falls. Isolated compounds: 6237, 15875.
- T1901 *Curculigo orchioides* (Hypoxidaceae); XIAN MAO; Common Curculigo. Used part: rhizome. TCM Effects: To supplement kidney and invigorate *yang*, strengthen sinews and bones, dispel damp and dissipate cold. TCM Indications: Impotence seminal cool, limp wilting sinew and bone, cold impediment in lumbus and knees, *yang* vacuity cold diarrhea. Isolated compounds: 345, 413, 464, 4381, 4382, 4384, 4385, 4386, 4387, 6200, 13241, 13835, 14481, 16170, 16171, 16172, 20566, 21087, 21088, 21203, 21697, 22936.
- T1902 *Curculigo pilosa* (Hypoxidaceae); MAO XIAN MAO; Pilose Curculigo\*. Isolated compounds: 4383, 4385, 15875, 17368, 17369, 17370, 21201.
- T1903 *Curcuma aromatica* (Zingiberaceae); YU JIN; Aromatic Turmeric. Used part: tuberoid. TCM Effects: See *Curcuma longa*. TCM Indications: See *Curcuma longa*. Isolated compounds: 2439, 3045, 3048, 3237, 3633, 4391, 4398, 4400, 21432, 22123, 22983.
- T1904 *Curcuma kwangsiensis* (Zingiberaceae); GUANG XI E SHU; Kwangsi Turmeric. Used part: rhizome. TCM Effects: See *Curcuma zedoaria*. TCM Indications: See *Curcuma zedoaria*. Isolated compounds: 4398.
- T1905 *Curcuma longa* (Zingiberaceae); JIANG HUANG; Common Turmeric. Equivalent plant: *Curcuma aromatica*. Used part: tuberoid. TCM Effects: To break blood and move *qi*, free menstruation and relieve pain. TCM Indications: Gallstones, jaundice, leukaemia in early stage and carcinoma of uterine cervix in early stage, chronic ulcer, chronic scab, blood stasis and *qi* stagnation, pain in chest and abdomen and rib-side, dysmenorrhea, amenorrhea, postpartum stasis stagnation abdominal pain, wind-heat impediment pain, knocks and falls, swollen welling abscess. Isolated compounds: 2427, 2428, 2439, 2466, 2467, 2469, 2470, 2960, 4391, 4398, 4398, 4399, 4488, 4895, 5045, 9498, 9855, 11613, 13950, 14642, 17874, 22123, 22124, 22983.
- T1906 *Curcuma* sp. (Zingiberaceae). Isolated compounds: 23004.
- T1907 *Curcuma wengujin* (Zingiberaceae); WEN YU JIN; Wengujin Curcuma\*. Used part: tuberoid. TCM Effects: To quicken blood and relieve pain, move *qi* and relieve depression, clear heart and cool blood, course liver and disinhibit gallbladder. TCM Indications: Pain in chest and abdomen and rib-side, dysmenorrhea, menstrual block, concretion and conglomeration with mass, febrile diseases clouded spirit, mania and withdrawal, fright epilepsy, blood ejection, spontaneous external bleeding, blood strangury, sand strangury, jaundice. Isolated compounds: 4399, 4400.
- T1908 *Curcuma xanthorrhiza* (Zingiberaceae); HUANG GEN JIANG HUANG; Xanthorrhiza Turmeric\*. Isolated compounds: 966, 4398.
- T1909 *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*] (Zingiberaceae); PING E SHU; Zedoary Turmeric. Equivalent plant: *Curcuma kwangsiensis*. Used part: rhizome. TCM Effects: To break blood and dispel stasis, move *qi* and relieve pain, anticancer. TCM Indications: Amenorrhea and dysmenorrhea, concretion conglomeration accumulation and gathering, food accumulation, distending pain in stomach duct and abdomen, indigestion, carcinoma of ovary, carcinoma of skin, genital carcinoma, malignant lymphoma, primary hepatoma, carcinoma of thyroid, carcinoma of stomach, carcinoma of lung. Isolated compounds: 658, 889, 2427, 2428, 2462, 2469, 3045, 4378, 4379, 4380, 4388, 4389, 4393, 4394, 4395, 4396, 4397, 4398, 4399, 4400, 4415, 4416, 4895, 5457, 5577, 6875, 6876, 7116, 7514, 8014, 8015, 8048, 8049, 8347, 8348, 8525, 10147, 11359, 11613, 11789, 15378, 15379, 17875, 18264, 22123, 22124, 22977, 22978, 22979, 22980,

- 22981, 22982, 22983.
- T1910 *Curvularia lunata* Fungus *Curvularia lunata*. Isolated compounds: 5757, 5758, 9800, 9801, 9802, 9803, 10083, 20249.
- T1911 *Cuscuta australis* (Convolvulaceae); NAN FANG TU SI ZI; South Dodder Seed. Used part: ripe seed. TCM Effects: See *Cuscuta chinensis*. TCM Indications: See *Cuscuta chinensis*. Isolated compounds: 1935, 2887, 2906, 3213, 4135, 12020, 13126, 13127, 18317, 19992, 21359.
- T1912 *Cuscuta chinensis* (Convolvulaceae); TU SI ZI; Chinese Dodder Seed. Equivalent plant: *Cuscuta japonica*, *Cuscuta australis*. Used part: ripe seed. TCM Effects: To supplement liver and kidney, secure essence and reduce urine, quiet fetus, brighten eyes, check diarrhea. TCM Indications: Impotence and emission, dribbling urination, enuresis and frequent urination, limp aching lumbus and knees, tinnitus and dim vision, fetal spotting due to kidney vacuity, stirring fetus in pregnancy, diarrhea due to spleen-kidney vacuity, white patch wind. Isolated compounds: 1935, 4418, 10887, 12020, 15459, 18317, 18357.
- T1913 *Cuscuta japonica* (Convolvulaceae); DA TU SI ZI; Japanese Dodder Seed. Used part: ripe seed. TCM Effects: See *Cuscuta chinensis*. TCM Indications: See *Cuscuta chinensis*. Isolated compounds: 12020, 13126, 18317.
- T1914 *Cuscuta lupuliformis* PI JIU HUA TU SI ZI; Hop-shaped Dodder. Isolated compounds: 12020, 18317.
- T1915 *Cuscuta reflexa* (Convolvulaceae); YUN NAN TU SI ZI; Yunnan Dodder. Isolated compounds: 6089, 6094, 6203, 10435, 10437, 20569, 21893.
- T1916 *Cuscuta* sp. (Convolvulaceae). Isolated compounds: 3210.
- T1917 *Cussonia bancoensis* (Araliaceae). Isolated compounds: 1573, 8679, 10820, 22270.
- T1918 *Cussonia racemosa* (Araliaceae). Isolated compounds: 4423, 4424, 4425, 4426, 4427, 4428, 4429, 4430, 4431, 4432, 4433.
- T1919 *Cyanostegia angustifolia*. Isolated compounds: 21711, 21857.
- T1920 *Cyanostegia microphylla*. Isolated compounds: 21711.
- T1921 *Cyanotis arachnoidea* [Syn. *Cyanotis bodinieri*] (Commelinaceae); ZHEN ZHU LU SHUI CAO; Spiderweb Blueeargrass, Pearl Cyanotis\*. Used part: root. TCM Effects: To free network vessels and relieve pain, disinhibit damp and disperse swelling. TCM Indications: Wind-damp impediment pain, pain in lumbus and legs, numbness in limbs, edema, eczema. Isolated compounds: 811, 16291, 16350.
- T1922 *Cyanotis vaga* (Commelinaceae); LU SHUI CAO; Common Cyanotis. Used part: root. TCM Effects: To dispel wind-damp, soothe sinews and quicken network vessels, disinhibit urine. TCM Indications: Wind-damp impediment pain, knocks and falls, edema, otitis media, eczema. Isolated compounds: 3944.
- T1923 *Cyathula capitata* (Amaranthaceae); MA NIU XI; Capitata Cyathula. Used part: root. TCM Effects: To dispel wind-damp, expel stasis blood. TCM Indications: Wind-cold-damp impediment, pain in lumbus and knees, amenorrhea due to blood stasis, postpartum persistent flow of lochia. Isolated compounds: 1014, 1015, 3131, 4455, 6679, 11361, 17741, 17778, 19730.
- T1924 *Cyathula officinalis* (Amaranthaceae); CHUAN NIU XI; Mediinal Cyathula. Used part: root. TCM Effects: To quicken blood and dispel stasis, dispel wind and disinhibit damp. TCM Indications: Amenorrhea with concretion and conglomeration, retention of placenta, impediment pain in joints, hematuria, blood strangury, knocks and falls. Isolated compounds: 4455, 6679.
- T1925 *Cycas beddomei* (Cycadaceae); NAN YIN DU SU TIE SHU GUO; South-India Sago Seed\*. Isolated compounds: 5673, 6411, 21072.
- T1926 *Cycas circinalis* (Cycadaceae); QUAN YE SU TIE; Crozier Cycas. Isolated compounds: 4456, 14134.
- T1927 *Cycas revoluta* (Cycadaceae); SU TIE SHU GUO; Sago Seed. Used part: seed. TCM Effects: To calm liver and lower blood pressure, suppress cough and dispel phlegm, promote astriction and secure astriction. TCM Indications: Hypertension, chronic hepatitis, cough with profuse phlegm, dysentery, emission, vaginal discharge, knocks and falls, knife wound. Isolated compounds: 617, 1030, 4456, 9543, 14151, 15136, 15380, 15381, 15382, 15383, 15384, 15385, 15386, 15664, 22976.
- T1928 *Cycas revoluta* (Cycadaceae); SU TIE YE; Sago Frond. Used part: leaf. TCM Effects: To rectify *qi* and relieve pain, stanch bleeding and dissipate stasis, resolve toxin and disperse swelling. TCM Indications: Diarrhea, dysentery, liver stomach *qi* pain, amenorrhea, blood ejection, hematochezia, toxin swelling, bleeding due to external injury, knocks and falls, backache. Isolated compounds: 4456, 20107.
- T1929 *Cyclamen europaeum* (Primulaceae); OU ZHOU XIAN KE LAI; Cyclamen. Isolated compounds: 4457.
- T1930 *Cyclamen persicum* (Primulaceae); XIAN KE LAI; Florists Cyclamen. Isolated compounds: 4457.
- T1931 *Cyclea barbata* (Menispermaceae); YIN BU HUAN; Barbate Cyclea. Used part: root and stem. TCM Effects: To clear heat and resolve toxin, disperse stasis and relieve pain, disinhibit urine and free strangury. TCM Indications: Wind-heat common cold, throat pain, toothache, stomachache, abdominal pain, damp-heat dysentery, malaria, dribbling pain of urination, painful wound from knocks and falls, sprain and contusion. Isolated compounds: 3878, 9597, 11329, 11736, 21206, 21270.
- T1932 *Cyclea racemosa* (Menispermaceae); LUN HUAN TENG; Racemose Cyclea. Used part: root. TCM Effects: To rectify *qi* and relieve pain, dispel damp and resolve toxin. TCM Indications: Distending pain in chest and stomach duct, abdominal pain and diarrhea, wind-damp pain, throat pain, poisonous snake bite, dog bite, swelling toxin of welling abscess and flat abscess, bleeding due to external injury. Isolated compounds: 4460, 20498.
- T1933 *Cyclea sutchuenensis* (Menispermaceae); SI CHUAN LUN HUAN TENG; Szechwan Cyclea. Used part: root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain, disinhibit urine and free strangury. TCM Indications: Externally contracted wind-heat, cough, swelling pain in throat, damp-heat diarrhea dysentery, toothache, painful wound from knocks and falls, dribbling and inhibited voidings of urination. Isolated compounds: 4461, 11362.
- T1934 *Cyclea tonkinensis* (Menispermaceae); NAN LUN HUAN TENG; Tonkin Cyclea. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Throat pain and swollen tongue, wind-damp impediment pain, pain in stomach duct and abdomen, amenorrhea and dysmenorrhea. Isolated compounds: 4459, 4461.

- T1935 *Cyclobium* spp. Isolated compounds: 3004.
- T1936 *Cyclocarya paliurus* (Juglandaceae); QING QIAN LIU; Roundwingfruit Cyclocarya. Used part: leaf. TCM Effects: To dispel wind and relieve itch. TCM Indications: Skin lichen. Isolated compounds: 4480, 4481, 4482, 4483.
- T1937 *Cydonia oblonga* (Rosaceae); WEN PO; Common Quince. Used part: fruit. TCM Effects: To warm center and precipitate *qi*, disperse food, check diarrhea, resolve liquor. TCM Indications: Non-digestion of food accumulation, glomus distention in stomach duct and abdomen, water diarrhea, vomiting of sour matter. Isolated compounds: 1102, 7463, 9418, 11574, 15700.
- T1938 *Cymbaria mongolica* (Scrophulariaceae); GUANG YAO DA HUANG HUA; Mongolian Cymbaria. Isolated compounds: 6035, 6038, 6039, 10321, 10322, 10323.
- T1939 *Cymbopogon citratus* (Poaceae); XIANG MAO; Lemongrass. Used part: whole herb. TCM Effects: To dispel wind and free network vessels, warm center and relieve pain, check diarrhea. TCM Indications: Common cold with headache, diarrhea, wind-cold impediment pain, cold pain in stomach duct and abdomen, knocks and falls. Isolated compounds: 3760, 3767, 12987, 15935.
- T1940 *Cymbopogon densiflorus* (Poaceae); MI HUA XIANG MAO; Denseflower Lemongrass\*. Isolated compounds: 3767, 6455.
- T1941 *Cymbopogon distans* (Poaceae); YUN XIANG CAO; Remote Lemongrass. Used part: aerial parts. TCM Effects: To resolve exterior, eliminate damp, relieve cough and calm asthma. TCM Indications: Wind-cold common cold, summerheat damage, vomiting diarrhea with abdominal pain, dribbling pain of urination, wind-damp impediment pain, cough and asthma, bronchial asthma. Isolated compounds: 3761, 7442, 8312, 17456.
- T1942 *Cymbopogon flexuosus* (Poaceae); WAN YAN XIANG MAO; Flexuous Lemongrass\*. Isolated compounds: 3760, 11966, 17056.
- T1943 *Cymbopogon goeringii* (Poaceae); YE XIANG MAO; Goering Lemongrass. Used part: whole herb. TCM Effects: To relieve cough and calm asthma, dispel wind and eliminate damp, free channels and relieve pain, check diarrhea. TCM Indications: Acute bronchitis, chronic bronchitis, bronchitis, rheumatic arthritis, headache, knocks and falls, diarrhea, *qi* pain in heart and stomach, abdominal pain, water diarrhea. Isolated compounds: 2555, 3241, 3242, 6745, 8313, 9669, 11408, 14531.
- T1944 *Cymbopogon nardus* (Poaceae); JING XIANG MAO; Citronella-grass. Isolated compounds: 3767.
- T1945 *Cymbopogon polyneuros* (Poaceae). Isolated compounds: 16927.
- T1946 *Cymbopogon procerus* (Poaceae); CHANG XIANG MAO; Long Lemongrass\*. Isolated compounds: 6745.
- T1947 *Cymbopogon sennaensis* (Poaceae); XIN NONG XIANG MAO; Senna Lemongrass\*. Isolated compounds: 17456.
- T1948 *Cymbopogon winterianus* (Poaceae); WEN TE XIANG MAO; Winter Lemongrass\*. Isolated compounds: 3767.
- T1949 *Cynanchum aphyllum* (Asclepiadaceae); WU YE BAI QIAN; Leafless Swallowwort\*. Isolated compounds: 4555, 4556, 4557, 4558, 4559, 4560, 4561, 4562, 4563.
- T1950 *Cynanchum ascyrifolium* (Asclepiadaceae); CHAO FENG CAO; Acuminate Swallowwort. Used part: root. TCM Effects: See *Tylophora ovata*. TCM Indications: See *Tylophora ovata*. Isolated compounds: 4566, 4567.
- T1951 *Cynanchum atratum* (Asclepiadaceae); BAI WEI; Blackend Swallowwort. Used part: root. TCM Effects: See *Tylophora ovata*. TCM Indications: See *Tylophora ovata*. Isolated compounds: 117, 1991, 1992, 1993, 1994, 1995, 1996, 4551, 4568, 5750, 8507, 8520, 21178.
- T1952 *Cynanchum auriculatum* (Asclepiadaceae); ER YE NIU PI XIAO; Auriculate Swallowwort. Used part: tuberoid. TCM Effects: See *Cynanchum bungei*. TCM Indications: See *Cynanchum bungei*. Isolated compounds: 2115, 4552, 4553, 22691, 22692, 22693, 22694.
- T1953 *Cynanchum bungei* (Asclepiadaceae); BAI SHOU WU; Bunge Swallowwort. Equivalent plant: *Cynanchum auriculatum*. Used part: tuberoid. TCM Effects: To supplement lung and boost kidney, strengthen sinews and bones, boost essence and blood, fortify spleen and disperse food, resolve toxin and cure sores. TCM Indications: Aching in lumbus and knees, impotence and emission, dizziness and tinnitus, palpitation and insomnia, inappetence, child *gan* sore, postpartum scant milk, swelling toxin of sore and welling abscess, poisonous snake bite. Isolated compounds: 2747, 2748, 2749, 2750, 3329, 3709, 3722, 4796, 12224, 12713, 12880, 16899, 19361, 22615.
- T1954 *Cynanchum chinense* (Asclepiadaceae); E RONG TENG; Chinese Swallowwort. Used part: white juice in stem. TCM Effects: To clear heat and resolve toxin, disperse accumulation and fortify stomach, disinhibit water and disperse edema. TCM Indications: Child food accumulation, child *gan* accumulation, gastritis, gastritis with edema, duodenal ulcer, wart. Isolated compounds: 4554.
- T1955 *Cynanchum hancockianum* (Asclepiadaceae); HUA BEI BAI QIAN; Hancock Swallowwort. Used part: whole herb. TCM Effects: To quicken blood, relieve pain, eliminate inflammation. TCM Indications: Pain in joints, toothache, bald sores. Isolated compounds: 9212, 9213, 9214, 9215, 9216, 9217, 13740, 15401, 15402, 22492.
- T1956 *Cynanchum japonicum* (Asclepiadaceae); RI BEN NIU PI XIAO; Japanese Swallowwort\*. Isolated compounds: 4551.
- T1957 *Cynanchum komarovii* (Asclepiadaceae); NIU XIN PIAO ZI; Komarov Mosquitotrap. Isolated compounds: 5055, 6272.
- T1958 *Cynanchum otophyllum* (Asclepiadaceae); QING YANG SHEN; Auricledleaf Mosquitotrap. Used part: root. TCM Effects: To dispel wind-damp, boost kidney and fortify spleen, resolve snake toxin, resolve dog toxin. TCM Indications: Wind-damp impediment pain, kidney vacuity lumbago, taxation damage in lumbar muscle, wrenching and contusion from knocks and falls, food accumulation, distending pain in stomach duct and abdomen, child *gan* accumulation, snake bite, dog bite. Isolated compounds: 4751, 16270, 16271, 18291, 18936.
- T1959 *Cynanchum paniculatum* (Asclepiadaceae); XU CHANG QING; Paniculate Swallowwort. Used part: root. TCM Effects: To dispel wind and transform damp, relieve pain and itch. TCM Indications: Rheumatic arthritis, toothache, lumbago, pain after operation, dysmenorrhea, mastitis, infection of skin, eczema, neurodermatitis, urticaria, infective dermatitis, zoster, wind-damp impediment pain, knocks and falls. Isolated compounds: 5055, 11580, 12880, 15388, 15389, 16532, 19361, 21437.

- T1960 *Cynanchum stauntonii* (Asclepiadaceae); LIU YE BAI QIAN; Willowleaf Swallowwort. Used part: root and rhizome. TCM Effects: To downbear *qi*, disperse phlegm, relieve cough. TCM Indications: Stasis of lung *qi*, cough with profuse phlegm, fullness in chest and rapid asthma. Isolated compounds: 1271, 1272, 8507, 9213, 20275, 20276, 20277.
- T1961 *Cynanchum thesioides* (Asclepiadaceae); DI SHAO GUA; Bastardtoadflaxlike Swallowwort. Used part: whole herb and fruit. TCM Effects: To clear vacuity fire, boost *qi*, engender liquid, promote lactation. TCM Indications: Upflaming vacuity fire, throat pain, *qi* and *yin* vacuity, fatigued spirit and amnesia, vacuity vexation and thirst, dizziness and insomnia, postpartum vacuity weakness, scant breast milk. Isolated compounds: 1112, 7768, 7786, 8807, 19912.
- T1962 *Cynanchum versicolor* (Asclepiadaceae); WAN SHENG BAI WEI; Versicolorous Mosquitotrap. Used part: root. TCM Effects: See *Tylophora ovata*. TCM Indications: See *Tylophora ovata*. Isolated compounds: 15387.  
*Cynanchum vincetoxicum* = *Vincetoxicum officinale*
- T1963 *Cynanchum wallichii* (Asclepiadaceae); DUAN JIE SHEN; Kunming Mosquitotrap. Used part: root. TCM Effects: To supplement kidney and strengthen lumbus, strengthen sinews and bones, resolve toxin. TCM Indications: Kidney vacuity lumbago, inability of legs and knees, knocks and falls, fracture, rabid dog bite. Isolated compounds: 18291, 18936.
- T1964 *Cynanchum wilfordii* [Syn. *Cynoctonum wilfordii*] (Asclepiadaceae); GE SHAN XIAO; Wilford Swallowwort. Used part: tuberoid. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, fortify spleen and stomach, resolve toxin. TCM Indications: liver kidney vacuity, dizzy head and vision, sleepless and amnesia, premature graying in beard and hair, impotence, emission, limp aching lumbus and knees, spleen vacuity and functional weakness, distention fullness in stomach duct, inappetence, diarrhea, postpartum scant milk, fish mouth sore toxin. Isolated compounds: 22691, 22692, 22693, 22694.
- T1965 *Cynara cardunculus* (Asteraceae); CI CAI JI; Cardoon. Isolated compounds: 4564, 4565.
- T1966 *Cynara scolymus* (Asteraceae); CAI JI; Globe Artichoke. Used part: leaf. TCM Effects: To course liver and disinhibit gallbladder, clear damp heat. TCM Indications: Jaundice, distending pain in chest and rib-side, damp-heat diarrhea dysentery. Isolated compounds: 4564, 4565, 9015, 11327.
- T1967 *Cynoglossum amabile* (Boraginaceae); GOU SHI HUA; Chinese Forgetmenot. Used part: whole herb. TCM Effects: To clear lung and transform phlegm, stanch bleeding and dissipate stasis, clear heat and disinhibit damp. TCM Indications: Cough, blood ejection, hepatitis, dysentery, odynuria, vaginal discharge, scrofula, knife wound, fracture. Isolated compounds: 1011, 6686.
- T1968 *Cynoglossum australe* (Boraginaceae); NAN FANG LIU LI CAO; South Houndstongue\*. Isolated compounds: 1011, 9316.
- T1969 *Cynoglossum officinale* (Boraginaceae); YAO YONG DAO TI HU; Common Houndstongue. Used part: root. TCM Effects: To clear heat and disinhibit damp, relieve cough, stanch bleeding. TCM Indications: Urinary tract infection, dysentery, vaginal discharge, *yin* vacuity cough, hemoptysis, blood ejection, spontaneous external bleeding, bleeding due to external injury. Isolated compounds: 917, 6686, 6687, 9316, 9317, 9320, 12535, 17546, 22527.
- T1970 *Cynoglossum pictum* (Boraginaceae); ZHUO SE LIU LI CAO; Picture Houndstongue\*. Isolated compounds: 9316.
- T1971 *Cynoglossum zeylanicum* [Syn. *Anchusa zeylanica*; *Cynoglossum furcatum*; *Cynoglossum formosanum*] (Boraginaceae); LIU LI CAO; Ceylon Houndstongue. Used part: root and leaf. TCM Effects: To clear heat and resolve toxin, dissipate stasis and stanch bleeding. TCM Indications: Swelling welling abscess and sore and boil, flooding and spotting, coughing of blood, painful swelling from knocks and falls, bleeding due to external injury, poisonous snake bites. Isolated compounds: 11525.
- T1972 *Cynomorium songaricum* (Cynomoriaceae); SUO YANG; Songaria Cynomorium. Used part: fleshy stem. TCM Effects: To supplement kidney and invigorate *yang*, boost essence and blood, moisten intestines and free stool. TCM Indications: Kidney vacuity impotence, emission and premature ejaculation, limp wilting of lower limb, vacuity constipation. Isolated compounds: 530, 4905, 11481, 22270.
- T1973 *Cyperus alopecuroides* (Cyperaceae); KAN MAI NIANG ZHUANG SHA CAO; Foxtail-like Galingale. Isolated compounds: 982, 3242, 4573, 4587, 6548, 7064, 7492, 7498, 7499, 7500, 18941.
- T1974 *Cyperus brevibracteatus* (Cyperaceae); DUAN BAO YE SHA CAO; Shortbractleaf Galingale\*. Isolated compounds: 2605.
- T1975 *Cyperus haspan* (Cyperaceae); QI PAN SHA CAO; Asideside Galingale. Isolated compounds: 4576.
- T1976 *Cyperus iria* (Cyperaceae); SUI MI SHA CAO; Rice Galingale. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and regulate menstruation. TCM Indications: Wind-damp pain in sinew and bone, paralysis, menstrual disorder, dysmenorrhea, amenorrhea, knocks and falls. Isolated compounds: 11988.
- T1977 *Cyperus papyrus* (Cyperaceae); ZHI SHA CAO; Paper Reed. Isolated compounds: 17375.
- T1978 *Cyperus rotundus* (Cyperaceae); XIANG FU; Nutgrass Galingale. Used part: rhizome. TCM Effects: To move *qi* and relieve depression, regulate menstruation and relieve pain. TCM Indications: women's diseases, menstrual disorder, amenorrhea and dysmenorrhea, liver depression and *qi* pain, distending pain in chest and rib-side, distending pain in stomach duct, indigestion, glomus and oppression in chest and stomach duct, cold mounting with abdominal pain, painful swollen breast. Isolated compounds: 4028, 4574, 4575, 4577, 4578, 4579, 4580, 4581, 6413, 7102, 11364, 11472, 11686, 12242, 15790, 16287, 16709, 16710, 16970, 18681, 18958, 18959, 18960, 20456.
- T1979 *Cyperus* sp. (Cyperaceae). Isolated compounds: 4576.
- T1980 *Cyprinus carpio* (Cyprinidae); LI YU; Carp. Used part: meat. TCM Effects: To fortify spleen and harmonize stomach, disinhibit water and precipitate *qi*, free milk, quiet fetus. TCM Indications: Stomachache, diarrhea, water-damp fullness, inhibited urination, beriberi, jaundice, cough and *qi* counterflow, stirring fetus in pregnancy, edema in pregnancy, postpartum scant milk. Isolated compounds: 4221, 4222, 9568, 15528, 19360.
- T1981 *Cyprinus carpio* (Cyprinidae); LI YU DAN; Carp Gall. Used part: gall.

- TCM Effects:** To clear heat and brighten eyes, dissipate screen and disperse swelling, disinherit throat. **TCM Indications:** Red eyes and distending pain, clear-eye blindness with internal obstruction, throat impediment. **Isolated compounds:** 929, 4582.
- T1982 *Cyprinus carpio* (Cyprinidae); LI YU PI; Carp Skin. **Used part:** skin. **TCM Effects:** To quiet fetus, stanch bleeding. **TCM Indications:** Stirring fetus in pregnancy, fetal spotting, bone stuck in throat. **Isolated compounds:** 1921, 6560, 13126.
- T1983 *Cypripedium calceolus* (Orchidaceae); SHAO LAN; European Ladyslipper. **Isolated compounds:** 4584.
- T1984 *Cypripedium macranthum* [Syn. *Cypripedium tibeticum*] (Orchidaceae); DA HUA SHAO LAN; Bigflower Ladyslipper. **Used part:** root. **TCM Effects:** To disinherit urine and disperse edema, quicken blood and relieve pain. **TCM Indications:** Edema in lower limb, strangury, leukorrhea, wind-damp impediment pain, knocks and falls. **Isolated compounds:** 4585, 4586.
- T1985 *Cyrtanthus falcatus* (Amaryllidaceae). **Isolated compounds:** 13568, 14578, 20891.
- T1986 *Cyrtomium fortunei* (Dryopteridaceae); HUN TOU JI; Fortune's Holly Fern. **Used part:** rhizome. **TCM Effects:** To clear heat and resolve toxin, cool blood and extinguish wind, stanch bleeding and dissipate stasis, expel worms. **TCM Indications:** Common cold, febrile diseases, malaria, hepatitis, maculopapular eruption, sand foulness, liver yang dizziness, headache, blood ejection, flooding, vaginal discharge, mammary welling abscess, scrofula, knocks and falls. **Isolated compounds:** 4588.
- T1987 *Cystopteris* sp. (Athyriaceae). **Isolated compounds:** 18000.
- T1988 *Cytisus laburnum* (Fabaceae); LIAN HUA JIN QUE ER; Goldregen. **Isolated compounds:** 14279.
- T1989 *Cytisus monspessulanus* (Fabaceae); FA GUO JIN QUE ER; French Broom. **Isolated compounds:** 4956.
- T1990 *Cytisus osmariensis* (Fabaceae); AO MA JIN QUE HUA; Osmarien Broom\*. **Isolated compounds:** 4594.
- T1991 *Cytisus scoparius* [Syn. *Spartium scoparium*] (Fabaceae); JIN QUE ER; Scotch Broom. **Used part:** flower or branchlet. **TCM Effects:** To strengthen heart and disinherit urine, upbear yang and effuse exterior. **TCM Indications:** Edema due to heart disease, arrhythmia, non-eruption of macula, knocks and falls. **Isolated compounds:** 3215, 6559, 11642, 13089, 14638, 15477, 15972, 16209, 20133.
- T1992 *Cytospora eucalypticola*. **Isolated compounds:** 6361, 6369.
- D**
- T1993 *Dacrydium* sp. (Podocarpaceae). **Isolated compounds:** 8401.
- T1994 *Daemonorops draco* (Arecaceae); QI LIN JIE; Draco Yellowvine\*. **Used part:** balsam. **TCM Effects:** See *Dracaena cochinchinensis*. **TCM Indications:** See *Dracaena cochinchinensis*. **Isolated compounds:** 2224, 15743, 15744, 18163, 19236.
- T1995 *Dahlia coccinea* (Asteraceae); HONG DA LI HUA; Cocochitl. **Isolated compounds:** 10959.
- T1996 *Dahlia pinnata* [Syn. *Dahlia variabilis*] (Asteraceae); DA LI HUA; Aztec Dahlia. **Used part:** tuberoid. **TCM Effects:** To clear heat and resolve toxin, dissipate stasis and relieve pain. **TCM Indications:** Parotitis, decayed teeth, innominate toxin swelling, painful wound from knocks and falls. **Isolated compounds:** 1493, 2843, 21391.
- T1997 *Dahlia* sp. (Asteraceae). **Isolated compounds:** 15279, 22336.
- T1998 *Dalbergia cearensis* (Fabaceae); XI A LA HUANG TAN; Cearen Rosewood\*. **Isolated compounds:** 4609, 7883.
- T1999 *Dalbergia cochinchinensis* (Fabaceae); JIAO ZHI HUANG TAN; Siam Rosewood. **Isolated compounds:** 2224, 4609, 4610, 6275, 6276, 10125, 10394, 10514, 12559.
- T2000 *Dalbergia congestiflora* (Fabaceae); JU HUA HUANG TAN; Congested-flower Rosewood\*. **Isolated compounds:** 15353.
- T2001 *Dalbergia cultrata* (Fabaceae); XIAO DAO XING HUANG TAN; Cultrate Rosewood\*. **Isolated compounds:** 4609.
- T2002 *Dalbergia ecastophyllum* (Fabaceae); YI KA TUO YE HUANG TAN; Ecasto-leaf Rosewood\*. **Isolated compounds:** 7883.
- T2003 *Dalbergia ferruginea* (Fabaceae); TIE XIU SE HUANG TAN; Ferruginous Rosewood\*. **Isolated compounds:** 4191, 4192.
- T2004 *Dalbergia melanoxylon* (Fabaceae); FEI ZHOU HUANG TAN; African Rosewood. **Isolated compounds:** 4609, 13658.
- T2005 *Dalbergia miscolobium* (Fabaceae); MI SI KE HUANG TAN; Miscol Rosewood\*. **Isolated compounds:** 18001.
- T2006 *Dalbergia nitidula* (Fabaceae); GUANG LIANG HUANG TAN; Shining Rosewood\*. **Isolated compounds:** 8283, 17092, 21528.
- T2007 *Dalbergia obtusa* (Fabaceae). **Isolated compounds:** 15913.
- T2008 *Dalbergia odorifera* (Fabaceae); JIANG ZHEN XIANG; Odorate Rosewood. Equivalent plant: *Dalbergia sissoo*. **Used part:** heartwood. **TCM Effects:** To quicken blood and dissipate stasis, stanch bleeding and settle pain, downbear qi, break foul. **TCM Indications:** Chest and rib-side pain, knocks and falls, bleeding due to external injury, bleeding due to external injury. **Isolated compounds:** 2574, 3346, 4607, 4608, 4609, 5834, 10375, 10545, 11365, 11404, 11547, 12260, 12908, 13658, 13679, 13680, 13681, 13901, 14098, 14100, 14103, 14280, 14502, 14532, 14619, 14811, 15733, 15913, 16000, 16001, 19393, 20340, 22436, 22783.
- T2009 *Dalbergia oliveri* (Fabaceae); AO LI FO HUANG TAN; Oliver Rosewood\*. **Isolated compounds:** 16082, 16083.
- T2010 *Dalbergia retusa* (Fabaceae). **Isolated compounds:** 15913.
- T2011 *Dalbergia riparia* (Fabaceae); HE AN HUANG TAN; Riparian Rosewood\*. **Isolated compounds:** 4609, 20900.
- T2012 *Dalbergia sericea* (Fabaceae); JUAN MAO HUANG TAN; Sericeous-leaf Rosewood. **Isolated compounds:** 11504.
- T2013 *Dalbergia sissoo* (Fabaceae); YIN DU HUANG TAN; Sisso Rosewood. **Used part:** heartwood. **TCM Effects:** See *Dalbergia odorifera*. **TCM Indications:** See *Dalbergia odorifera*. **Isolated compounds:** 2385, 4609, 17420, 20902.
- T2014 *Dalbergia* sp. (Fabaceae). **Isolated compounds:** 18020, 20901.
- T2015 *Dalbergia* spp. (Fabaceae). **Isolated compounds:** 3004, 12908.
- T2016 *Dalbergia spruceana* (Fabaceae); QIAO HUANG TAN; Spruce Rosewood\*. **Isolated compounds:** 2224.
- T2017 *Dalbergia stevensonii* (Fabaceae); SI TE WEN HUANG TAN; Stevenson Rosewood\*. **Isolated compounds:** 4604, 4609, 7883, 11504, 12908, 13638.
- T2018 *Dalbergia variabilis* (Fabaceae); YI BIAN HUANG TAN; Variable Rosewood\*. **Isolated compounds:** 13638, 15021, 22347, 22437.
- T2019 *Dalbergia volubilis* (Fabaceae); CHAN RAO HUANG TAN; Voluble

- Rosewood\*. Isolated compounds: 2384.
- T2020 *Damnacanthus indicus* (Rubiaceae); HU CI; Indian Damnacanthus. Used part: whole herb. TCM Effects: To dispel wind and disinhibit damp, quicken blood and disperse swelling. TCM Indications: Pain wind, wind-damp impediment pain, cough of phlegm-rheum, pulmonary welling abscess, edema, lump glomus, jaundice, amenorrhea, child gan accumulation, urticaria, knocks and falls. Isolated compounds: 900, 2299, 4622, 4623, 5522, 9771, 11990, 15734, 15765.
- T2021 *Damnacanthus major* (Rubiaceae). Isolated compounds: 11990, 15734.
- T2022 *Daniellia oliveri* (Fabaceae); AO SHI DAN NI SU MU. Isolated compounds: 7161.
- T2023 *Daphne genkwa* (Thymelaeaceae); YUAN HUA; Lilac Daphne. Used part: bud. TCM Effects: To drain water and expel rheum, relieve cough and dispel phlegm, resolve toxin and kill worms. TCM Indications: Edema, ascites, hydrothorax, cough with profuse phlegm, chronic bronchitis, malaria, scalp infection, infection of skin, tinea capitis, neurodermatitis, induce abortion, toothache. Isolated compounds: 1476, 8286, 8289, 10137, 13137, 15514, 15990, 21392, 22929, 22930, 22931, 22932, 22933.
- T2024 *Daphne genkwa* (Thymelaeaceae); YUAN HUA GEN; Lilac Daphne Root. Used part: root. TCM Effects: To expel water, resolve toxin, dissipate binds. TCM Indications: Edema, scrofula, mammary welling abscess, hemorrhoids, scab sore. Isolated compounds: 4652, 4653, 4654, 4655, 4656, 11366, 22929, 22930.
- T2025 *Daphne gnidium* (Thymelaeaceae); JING YA MA YE RUI XIANG; Garou Bush. Isolated compounds: 4657.
- T2026 *Daphne mezereum* (Thymelaeaceae); OU YA RUI XIANG; Mezereon. Isolated compounds: 4649, 14826.
- T2027 *Daphne odora* (Thymelaeaceae); RUI XIANG GEN; Winter Daphne Root. Used part: root. TCM Effects: To resolve toxin, quicken blood and relieve pain. TCM Indications: Acute throat wind, pain in stomach duct, knocks and falls, poisonous snake bite. Isolated compounds: 4642, 4651, 12521, 15990, 15999.
- T2028 *Daphne odora* (Thymelaeaceae); RUI XIANG HUA; Winter Daphne Flower. Used part: flower. TCM Effects: To quicken blood and relieve pain, resolve toxin and dissipate binds. TCM Indications: Swelling pain in throat, headache, toothache, wind-damp pain, mammary welling abscess, swollen hard breast. Isolated compounds: 4645, 4646, 4650, 22195.
- T2029 *Daphne oleoides* (Thymelaeaceae); YOU RUI XIANG; Oily Daphne\*. Isolated compounds: 1127, 4641, 4644, 5995, 8287, 8288, 8899, 8900, 8901, 16069, 16070, 16737, 19651.
- T2030 *Daphne retusa* (Thymelaeaceae); AO YE RUI XIANG; Retuseleaf Daphne. Used part: stem bark and root cortex. TCM Effects: See *Daphne tangutica*. TCM Indications: See *Daphne tangutica*. Isolated compounds: 4643.
- T2031 *Daphne tangutica* (Thymelaeaceae); SHAN GAN RUI XIANG; Tangut Daphne. Equivalent plant: *Daphne retusa*. Used part: stem bark and root cortex. TCM Effects: To dispel wind and free network vessels, dissipate stasis and relieve pain. TCM Indications: Wind-damp impediment pain, numbness in limbs, headache, stomachache, lumbago, knocks and falls. Isolated compounds: 4643, 12521.
- T2032 *Daphniphyllum calycinum* (Daphniphyllaceae); NIU ER FENG ZI; Calyx-shaped Daphniphyllum Fruit. Used part: fruit. TCM Effects: To check dysentery. TCM Indications: Chronic dysentery. Isolated compounds: 4640, 7996, 10166, 22959, 22960.
- T2033 *Daphniphyllum macropodum* (Daphniphyllaceae); JIAO RANG MU; Macropodous Daphniphyllum. Used part: leaf and seed. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling toxin of sore and boil. Isolated compounds: 1892, 4659, 4716.
- T2034 *Daphnopsis racemosa* ZONG ZHUANG JIA RUI XIANG. Isolated compounds: 17958.
- T2035 *Darlingia darlingiana*. Isolated compounds: 4660.
- T2036 *Datura innoxia* (Solanaceae); MAO MAN TUO LUO GEN; Hairy Datura Root. Used part: root. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 6525, 9856, 10870, 10872, 13819, 18072, 22050.
- T2037 *Datura innoxia* (Solanaceae); MAO MAN TUO LUO HUA; Hairy Datura Flower. Used part: flower. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 2001, 10872, 21372, 22158.
- T2038 *Datura innoxia* (Solanaceae); MAO MAN TUO LUO YE; Hairy Datura Leaf. Used part: leaf. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 1526, 2887, 4417, 10870, 10872, 12908, 13819, 22158.
- T2039 *Datura innoxia* (Solanaceae); MAO MAN TUO LUO ZI; Hairy Datura Seed. Used part: seed or fruit. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 2001, 10872, 12891, 13819, 16066.
- T2040 *Datura metaloides* XIANG MAN TUO LUO; Fragrant Datura\*. Isolated compounds: 13819.
- T2041 *Datura metel* (Solanaceae); MAN TUO LUO GEN; Hindu Datura Root. Equivalent plant: *Datura stramonium*, *Datura innoxia*. Used part: root. TCM Effects: To suppress cough, relieve pain, draw out pus. TCM Indications: Cough and asthma, wind-damp impediment pain, boil and lichen, malign sore, rabid dog bite. Isolated compounds: 10870, 10872, 18072, 22050.
- T2042 *Datura metel* (Solanaceae); MAN TUO LUO YE; Hindu Datura Leaf. Equivalent plant: *Datura innoxia*. Used part: leaf. TCM Effects: To suppress cough and calm asthma, relieve pain and draw out pus. TCM Indications: Cough and asthma, impediment pain, beriberi, prolapse of rectum. Isolated compounds: 2001, 4664, 4665, 4666, 4667, 4668, 4669, 4670, 4671, 4673, 4674, 10870, 10872.
- T2043 *Datura metel* (Solanaceae); MAN TUO LUO ZI; Hindu Datura Seed. Equivalent plant: *Datura innoxia*, *Datura stramonium*. Used part: seed or fruit. TCM Effects: To calm asthma, dispel wind, relieve pain. TCM Indications: Cough and asthma, fright epilepsy, wind-cold-damp impediment, dysentery, prolapse of rectum, knocks and falls. Isolated compounds: 3773, 4491, 10872, 12891, 15771, 15772, 15901, 16066, 22050.
- T2044 *Datura metel* (Solanaceae); YANG JIN HUA; Hindu Datura Flower. Equivalent plant: *Datura innoxia*. Used part: flower. TCM Effects: To suppress cough and calm asthma, relieve pain and settle tetany. TCM Indications: Cough and asthma without phlegm, cold pain in heart and



- abdomen, wind-damp impediment pain, knocks and falls, epilepsy, chronic fright wind, anesthesia. Isolated compounds: 1287, 2001, 10870, 10872, 21372.
- T2045 *Datura* spp. (Solanaceae). Isolated compounds: 10870.
- T2046 *Datura stramonium* (Solanaceae); OU MAN TUO LUO GEN; Jimsonweed Root. Used part: root. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 664, 2001, 4417, 10872, 22049.
- T2047 *Datura stramonium* (Solanaceae); WAN TAO HUA ZI; Jimsonweed Seed\*. Used part: seed or fruit. TCM Effects: See *Datura metel*. TCM Indications: See *Datura metel*. Isolated compounds: 15772, 15773.
- T2048 *Daucus carota* (Apiaceae); HE SHI FENG; Wild Carrot. Used part: whole herb. TCM Effects: To kill worms, disperse swelling, disperse *qi*, transform phlegm. TCM Indications: Worm accumulation, *gan* accumulation, distention fullness in stomach duct and abdomen, edema, jaundice, poison from smoke, damp itchy in sore and papules, alopecia areata. Isolated compounds: 207, 208, 218, 1840, 3216, 4676, 4679, 7707, 7756, 7767, 18275.
- T2049 *Daucus carota* (Apiaceae); NAN HE SHI; Wild Carrot Fruit. Used part: fruit. TCM Effects: To kill worms, disperse accumulation, relieve itch. TCM Indications: Ascariasis, oxyuria disease, taeniasis, ancylostomiasis, abdominal pain due to worm accumulation, child *gan* accumulation, pudendal itch. Isolated compounds: 1840, 2306, 2412, 3045, 3208, 3209, 3210, 3211, 3216, 4140, 4390, 4675, 4679, 4835, 6745, 7073, 7707, 9088, 12843, 12849, 13212, 14531, 15204, 17028, 17127, 17376, 19687, 20988, 20992, 21371, 22195.
- T2050 *Daucus carota* var. *sativa* (Apiaceae); HU LUO BO; Carrot. Used part: root. TCM Effects: To fortify spleen and harmonize center, relieve cough and transform phlegm, clear heat and resolve toxin. TCM Indications: Indigestion, chronic dysentery, cough. Isolated compounds: 3208, 3212, 3215, 3241, 3242, 3760, 3768, 8313, 14586, 17264, 18275.
- T2051 *Daucus carota* var. *sativa* (Apiaceae); HU LUO BO ZI; Carrot Seed. Used part: seed. TCM Effects: To dissipate cold and dry damp, disinhibit water and kill worms. TCM Indications: Chronic dysentery, phlegm asthma. Isolated compounds: 3216, 4679, 8313.
- T2052 *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*] (Davalliaceae); DA YE GU SUI BU; Taiwan Davallia. Used part: rhizome. TCM Effects: To quicken blood and transform stasis, supplement kidney and strengthen bones, dispel wind and relieve pain. TCM Indications: Knocks and falls, kidney vacuity lumbago, wind-damp bone pain. Isolated compounds: 9635, 9639, 15406, 15748.
- T2053 *Davallia mariesii* (Davalliaceae); HAI ZHOU GU SUI BU; Squirrel's Foot Fern. Used part: rhizome. TCM Effects: To move blood and quicken network vessels, dispel wind and relieve pain, supplement kidney and strengthen bones. TCM Indications: Wind-damp impediment pain, knocks and falls, kidney vacuity toothache, lumbago, chronic diarrhea. Isolated compounds: 2889, 9637, 9638, 9639, 9640, 9642, 11457, 13567, 15254, 17869, 17888, 22334, 22342, 22343.
- T2054 *Davallia solida* (Davalliaceae); KUO YE GU SUI BU; Broadleaf Davallia. Isolated compounds: 8741, 22841.
- T2055 *Davallia* sp. (Davalliaceae). Isolated compounds: 22465.
- T2056 *Debregeasia longifolia* (Urticaceae); CHANG YE SHUI MA; Longleaf Debregeasia. Used part: stem-leaf. TCM Effects: To dispel wind and relieve cough, clear heat and disinhibit damp. TCM Indications: Wind damage and common cold, cough, heat impediment, cystitis, innominate toxin swelling, toothache. Isolated compounds: 8095.
- T2057 *Decodon verticillatus* (Lythraceae); DI KE DONG; Swamp Loosestrife. Isolated compounds: 4832, 22433.
- T2058 *Deeringia amaranthoides* [Syn. *Cladostachys frutescens*] (Amaranthaceae); JIANG GUO XIAN; Frutescent Cladostachys. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, dysentery, diarrhea. Isolated compounds: 18229.
- T2059 *Dehaasia triandra* (Lauraceae); SAN RUI LIAN GUI; Threestamen Dehaasia\*. Isolated compounds: 15881.
- T2060 *Delonix regia* (Fabaceae); FENG HUANG MU; Flamboyanttree. Used part: bark. TCM Effects: To calm liver and subdue *yang*. TCM Indications: Hypertension due to liver heat, dizziness, vexation. Isolated compounds: 2057, 18281.
- T2061 *Delphinium barbeyi* (Ranunculaceae); BA BI CUI QUE HUA; Barbey Larkspur\*. Isolated compounds: 1366.
- T2062 *Delphinium bonvalotii* (Ranunculaceae); CHUAN QIAN CUI QUE HUA; Bonvalot Larkspur. Used part: root. TCM Effects: See *Delphinium omeiense*. TCM Indications: See *Delphinium omeiense*. Isolated compounds: 4998.
- T2063 *Delphinium brownii* (Ranunculaceae); BAO SHI FEI YAN CAO; Brown Larkspur\*. Isolated compounds: 2657.
- T2064 *Delphinium carduchorum* (Ranunculaceae). Isolated compounds: 3191, 5002.
- T2065 *Delphinium carolinianum* (Ranunculaceae); KA LUO LAI NA CUI QUE; Carolina Larkspur\*. Isolated compounds: 782.
- T2066 *Delphinium cashmerianum* (Ranunculaceae); KE SHEN MI ER CUI QUE; Kashmir Larkspur. Isolated compounds: 2042, 12510, 13169.
- T2067 *Delphinium confusum* (Ranunculaceae); YI SI CUI QUE; Confusable Larkspur\*. Isolated compounds: 3963.
- T2068 *Delphinium consolida* (Ranunculaceae); QIANG GU FEI YAN CAO; Consolidated Larkspur\*. Isolated compounds: 5004, 5035, 13189.
- T2069 *Delphinium corumbosum* (Ranunculaceae); GUANG FEI YAN CAO; Light Larkspur\*. Isolated compounds: 5003.
- T2070 *Delphinium crispulum* (Ranunculaceae); TU ER QI CUI QUE HUA; Turkish Larkspur\*. Isolated compounds: 4242, 5009.
- T2071 *Delphinium denudatum* (Ranunculaceae); LU CUI QUE; Denuded Larkspur\*. Isolated compounds: 3963, 5136, 11728.
- T2072 *Delphinium dictyocarpum* (Ranunculaceae); WANG GUO CUI QUE HUA; Reticulatefruit Larkspur. Isolated compounds: 5036.
- T2073 *Delphinium dissectum* (Ranunculaceae); SHEN LIE CUI QUE HUA; Deeplobed Larkspur\*. Isolated compounds: 10501.
- T2074 *Delphinium elatum* (Ranunculaceae); GAO FEI YAN CAO; Alpine Larkspur. Isolated compounds: 5036, 6734, 14569.
- T2075 *Delphinium excelsum* (Ranunculaceae); GAO DA CUI QUE HUA; High Larkspur\*. Isolated compounds: 10501, 10543, 14286.
- T2076 *Delphinium giralduii* (Ranunculaceae); QIN LING CUI QUE HUA; Girald Larkspur. Isolated compounds: 4991, 5618, 8454, 8455, 20001,

- 20727, 21445.
- T2077 *Delphinium grandiflorum* (Ranunculaceae); CUI QUE HUA; Bouquet Larkspur. Used part: whole herb or root. TCM Effects: To dispel wind-damp, relieve pain, kill worms and relieve itch. TCM Indications: Wind-heat toothache, wind-damp impediment pain, sore swelling abscess and lichen *lai*. Isolated compounds: 14569.
- T2078 *Delphinium iliense* (Ranunculaceae); YI LI CUI QUE HUA; Ili Larkspur. Isolated compounds: 5036.
- T2079 *Delphinium kamaonense* var. *glabrescens* (Ranunculaceae); ZHAN MAO CUI QUE HUA; Hair Larkspur. Used part: whole herb. TCM Effects: To clear heat and dry damp, check dysentery. TCM Indications: Damp-heat dysentery, enteritis and diarrhea. Isolated compounds: 8491, 20727.
- T2080 *Delphinium occidentale* (Ranunculaceae); XI FANG CUI QUE; Occidental Larkspur\*. Isolated compounds: 5036.
- T2081 *Delphinium omeiense* (Ranunculaceae); E MEI CUI QUE HUA; Emei Larkspur. Equivalent plant: *Delphinium bonvalotii*, *Delphinium potaninii*, *Delphinium potaninii* var. *jiufengshanense*. Used part: root. TCM Effects: To dispel wind and eliminate damp, free network vessels and relieve pain, disperse swelling and resolve toxin. TCM Indications: Wind-damp pain in sinew and bone, stomachache, painful swelling from knocks and falls, swelling abscess and sores, hemorrhoids, lichen *lai*. Isolated compounds: 1366, 5005, 5006, 5033, 5034, 5035, 5038, 11372, 12372, 13189, 14569, 17745.
- T2082 *Delphinium oreophilum* (Ranunculaceae); XI SHAN CUI QUE; Montane Larkspur. Isolated compounds: 338.
- T2083 *Delphinium pentagynum* (Ranunculaceae); WU ZHU FEI YAN CAO; Fivestyle Larkspur\*. Isolated compounds: 3201, 4897, 5056, 5083, 8044.
- T2084 *Delphinium potaninii* (Ranunculaceae); HEI SHUI CUI QUE; Potanin Larkspur. Used part: root. TCM Effects: See *Delphinium omeiense*. TCM Indications: See *Delphinium omeiense*. Isolated compounds: 17743, 17744.
- T2085 *Delphinium potaninii* var. *jiufengshanense* (Ranunculaceae); HEI SHUI CUI QUE HUA BIAN ZHONG; Potanin Larkspur Variety\*. Used part: root. TCM Effects: See *Delphinium omeiense*. TCM Indications: See *Delphinium omeiense*. Isolated compounds: 1366, 6732, 8511, 11887, 11888.
- T2086 *Delphinium staphisagria* (Ranunculaceae); SI TA WEI CUI QUE HUA; Stavisacre. Isolated compounds: 5032, 20262.
- T2087 *Delphinium tatsienense* (Ranunculaceae); KANG DING CUI QUE HUA; Kangting Larkspur. Used part: root. TCM Effects: To warm center and relieve pain. TCM Indications: Cold pain in abdomen, taxation damage and sinew bone pain. Isolated compounds: 782, 5038, 9472, 20726, 20727, 20728, 20729.
- T2088 *Delphinium tricorne* (Ranunculaceae); SAN JU AI CUI QUE; Spring Larkspur. Isolated compounds: 21593.
- T2089 *Delphinium trifoliolatum* (Ranunculaceae); SAN XIAO YE CUI QUE HUA; Threefoliolate Larkspur. Isolated compounds: 21635, 21636, 21637.
- T2090 *Delphinium virescens* (Ranunculaceae); DAN LV CUI QUE; Virescent Larkspur. Isolated compounds: 782.
- T2091 *Delphinium yunnanense* (Ranunculaceae); XIAO CAO WU; Yunnan Larkspur. Used part: tuberoid. TCM Effects: To dispel wind-damp, relieve pain, settle fright. TCM Indications: Wind-cold-damp impediment, stomachache, epilepsy, infant fright wind, knocks and falls. Isolated compounds: 5004, 7521.
- T2092 *Delphinus delphis* (Delphinidae); HAI TUN YU; Dolphin. Used part: meat or fat. TCM Effects: To resolve toxin, engender flesh, settle pain. TCM Indications: Tinea capitis, sore and boil, hemorrhoids and fistulas, burns and scalds, miasmatic malaria, tympanites. Isolated compounds: 11754.
- T2093 *Dendranthema grandiflorum* (Asteraceae); DA HUA JU; Large-flowered Dendranthema\*. Isolated compounds: 5594, 13128, 13129, 13130, 13131, 13132.
- T2094 *Dendrobium aduncum* (Orchidaceae); GOU ZHUANG SHI HU; Hooked Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 654.
- T2095 *Dendrobium amoenum* (Orchidaceae); KE AI SHI HU; Delightful Dendrobium. Isolated compounds: 1070, 11216.
- T2096 *Dendrobium aurantiacum* var. *denneanum* (Orchidaceae); DIE QIAO SHI HU; Denne Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 19540.
- T2097 *Dendrobium capillipes* (Orchidaceae); DUAN BANG SHI HU; Hairstalk Dendrobium. Isolated compounds: 19540.
- T2098 *Dendrobium chrysanthum* (Orchidaceae); SHU HUA SHI HU; Goldenflower Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 3627, 10835.
- T2099 *Dendrobium chrysotoxum* (Orchidaceae); GU CHUI SHI HU; Yellowbow Dendrobium. Isolated compounds: 3627, 3628.
- T2100 *Dendrobium densiflorum* (Orchidaceae); MI HUA SHI HU; Denseflower Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 4585, 5128, 5132, 5133, 5970, 6163, 8380, 9604, 14996, 19540, 19542, 22041.
- T2101 *Dendrobium fimbriatum* (Orchidaceae); LIU SU JIN SHI HU; Fimbriate Dendrobium\*. Used part: whole herb. TCM Effects: To clear heat, moisten lung, relieve cough. TCM Indications: Cough, asthma, tuberculosis, pleuritis, fluid damage and thirst. Isolated compounds: 7799.
- T2102 *Dendrobium fimbriatum* var. *oculatum* (Orchidaceae); LIU SU SHI HU; Eyeshaped Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 3627, 19983.
- T2103 *Dendrobium findleyanum* (Orchidaceae); FEN LAI SHI HU; Findley Dendrobium\*. Isolated compounds: 5108.
- T2104 *Dendrobium gratiosissimum* (Orchidaceae); BEI QIAO SHI HU; Muchlovable Dendrobium. Isolated compounds: 3627.
- T2105 *Dendrobium loddigesii* (Orchidaceae); MEI HUA SHI HU; Loddiges Dendrobium. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 14997, 19802, 19803.
- T2106 *Dendrobium moniliforme* (Orchidaceae); XI JING SHI HU;

- Moliform *Dendrobium*\*. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 85, 3627, 5109, 5110, 5111, 5112, 5113, 5116, 5117, 5118, 5119, 5125, 10035, 10036, 22338.
- T2107 *Dendrobium nobile* (Orchidaceae); SHI HU<sup>(4)</sup>; Noble *Dendrobium*. Equivalent plant: *Dendrobium loddigesii*, *Dendrobium densiflorum*, *Dendrobium officinale*, *Dendrobium chrysanthum*, *Dendrobium fimbriatum* var. *oculatum*, *Dendrobium aduncum*, *Dendrobium moniliforme*, *Dendrobium aurantiacum* var. *denneanum*. Used part: stem. TCM Effects: To boost stomach and engender liquid, enrich *yin* and clear heat. TCM Indications: *Yin* damage liquid depletion, dry mouth with vexation and thirst, reduced food intake with dry retching, vacuity heat during convalescence, dim vision. Isolated compounds: 5106, 5107, 5108, 5120, 5121, 5122, 5123, 5124, 5125, 5126, 5127, 9982, 9983, 9984, 11585, 11586, 11587, 14288, 15639, 15640, 15705.
- T2108 *Dendrobium officinale* (Orchidaceae); TIE PI SHI HU; Iron-sheet *Dendrobium*. Used part: stem. TCM Effects: See *Dendrobium nobile*. TCM Indications: See *Dendrobium nobile*. Isolated compounds: 3627.
- T2109 *Dendrobium primulinum* (Orchidaceae); BAO CHUN SHI HU; Primrose *Dendrobium*. Isolated compounds: 3627.
- T2110 *Dendrobium thyrsiflorum* (Orchidaceae); JU HUA SHI HU; Thyrsiflower *Dendrobium*. Isolated compounds: 19540.
- T2111 *Dendrobium williamsonii* (Orchidaceae); HEI MAO SHI HU; Blackhair *Dendrobium*. Isolated compounds: 3627.
- T2112 *Dendrosicyos socotrana* (Cucurbitaceae); Cucumber Tree. Isolated compounds: 5114, 11356.
- T2113 *Dennstaedtia scabra* [Syn. *Dicksonia scabra*] (Dennstaedtiaceae); WAN JUE; Scabrous Boulder Fern. Used part: whole herb. TCM Effects: To dispel wind, clear heat and resolve exterior. TCM Indications: Common cold with headache, wind-damp impediment pain. Isolated compounds: 16102, 18098, 18157.
- T2114 *Deprea subtriflora*. Isolated compounds: 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1457.
- T2115 *Dermatocarpon minutum* (Dermatocarpaceae); HEI SHI ER. Used part: lichen body. TCM Effects: To disperse food, disinherit water, lower blood pressure. TCM Indications: Indigestion, abdominal distention, dysentery, *gan* accumulation, hypertension. Isolated compounds: 22607.
- T2116 *Dermocybe* sp. Isolated compounds: 2019, 2020.
- T2117 *Derris amazonica* (Fabaceae); YA MA XUN YU TENG; Amazonian Jewelvine\*. Isolated compounds: 19394.
- T2118 *Derris elliptica* (Fabaceae); MAO YU TENG; Tubaroot Jewelvine. Isolated compounds: 4872, 6028, 18939, 21483.
- T2119 *Derris eriocarpa* (Fabaceae); MAO GUO YU TENG; Hairypod Fishvane. Used part: lianoid stem. TCM Effects: To disinherit urine and free strangury, transform phlegm and relieve cough. TCM Indications: Nephritis, cystitis, urethritis, beriberi with edema, cough. Isolated compounds: 6061, 7273, 7274.
- T2120 *Derris malaccensis* (Fabaceae); MA LIU JIA YU TENG; Malacca Jewelvine\*. Isolated compounds: 13415, 20485.
- T2121 *Derris mollis* (Fabaceae); MO LI YU TENG; Molly Jewelvine\*. Isolated compounds: 12163.
- T2122 *Derris robusta* (Fabaceae); CU ZHUANG YU TENG; Robust Jewelvine. Isolated compounds: 5235.
- T2123 *Derris scandens* (Fabaceae); PAN YUAN YU TENG; Climbing Jewelvine. Isolated compounds: 3475, 3602, 5222, 5223, 5224, 5225, 5226, 5227, 5228, 5229, 5230, 5231, 5232, 5233, 5234, 6496, 7317, 7825, 7826, 8278, 8278, 11324, 11683, 13088, 13105, 13106, 13107, 13281, 16249, 18685, 19299, 19449, 19450, 19451, 19452, 19453, 22189, 22637.
- T2124 *Derris trifoliata* (Fabaceae); YU TENG; Trifoliolate Jewelvine. Used part: root or whole herb. TCM Effects: To dissipate stasis and relieve pain, kill worms and relieve itch. TCM Indications: Painful swelling from knocks and falls, lichen. Isolated compounds: 4872, 6762, 10067, 18939, 18939, 20965, 21483, 21483, 21484.
- T2125 *Descurainia sophia* (Brassicaceae); BO NIANG HAO; Flixweed Tansymustard Seed. Used part: seed. TCM Effects: See *Lepidium apetalum*. TCM Indications: See *Lepidium apetalum*. Isolated compounds: 948, 949, 2294, 5245, 5246, 5247, 7291, 9335, 9452, 11642, 11648, 11657, 11659, 12059, 16887, 18364, 19909, 19913, 19914, 19915, 20397.
- T2126 *Desfontainia spinosa* DUO CI DI SHI MU; *Desfontainia spinosa*. Isolated compounds: 15539, 20171.
- T2127 *Desmanthus illinoensis* (Fabaceae); YI LI NUO HE HUAN CAO; Prairie Mimosa. Isolated compounds: 5252.
- T2128 *Desmodium canum* (Fabaceae); DAN HUI BAI SHAN MA HUANG; Light-hoar Tickclover\*. Isolated compounds: 5264, 5265, 14754.
- T2129 *Desmodium cephalotes* (Fabaceae); JIA MU DOU; Capitulum Tickclover\*. Isolated compounds: 9646.
- T2130 *Desmodium gangeticum* (Fabaceae); HONG MU JI CAO; Hookedhairypod Tickclover. Used part: stem-leaf. TCM Effects: To dispel stasis and regulate menstruation, resolve toxin, relieve pain. TCM Indications: Knocks and falls, prolapse of uterus, prolapse of rectum, amenorrhea, psoriasis, toothache, headache. Isolated compounds: 6370, 6418, 6420, 9646, 10590, 10877, 13920, 14008, 14750, 14796, 17083.
- T2131 *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*] (Fabaceae); PAI QIAN CAO; Beautiful Phylloidium. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, dispel wind and move water, quicken blood and disperse swelling. TCM Indications: Common cold with fever, swelling pain in throat, *gan* of teeth and gum, wind-damp impediment pain, edema, ascites, liver spleen enlargement, knocks and falls, poisonous insect stings, malaria, bilharziosis. Isolated compounds: 6370, 6418, 6420, 13920, 14038.
- T2132 *Desmodium pulchellum* [Syn. *Phylloidium pulchellum*] (Fabaceae); PAI QIAN CAO GEN; Beautiful Phylloidium Root. Used part: root. TCM Effects: To transform stasis and disperse concretion, clear heat and disinherit water. TCM Indications: Concretion and conglomeration, pain in rib-side, jaundice, ascites, damp-heat impediment, amenorrhea, menstrual disorder, welling abscess and flat abscess with clove sore, knocks and falls. Isolated compounds: 1110.
- T2133 *Desmodium racemosum* [Syn. *Podocarpium podocarpum* var. *oxyphyllum*] (Fabaceae); SHAN MA HUANG; Acutifoliate Podocarpium. Used part: herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and resolve toxin. TCM Indications: Wind-damp impediment pain, flooding, vaginal discharge,

- pharyngolaryngitis, mammary welling abscess, knocks and falls, poisonous snake bite. Isolated compounds: 12018.
- T2134 *Desmodium styracifolium* (Fabaceae); GUANG JIN QIAN CAO; Snowbelleaf Tickclover. Used part: aerial parts. TCM Effects: To clear heat and eliminate damp, disinhibit urine and free strangury. TCM Indications: Heat strangury, sand strangury, stone strangury, pain of hot urine, scant urine with edema, jaundice with reddish urine, urethral stone. Isolated compounds: 1598, 5266, 5267, 5698, 18706, 20280, 22042.
- T2135 *Desmodium tiliaefolium* (Fabaceae); DUAN YE SHAN MA HUANG; Lindenleaf Tickclover\*. Isolated compounds: 9646.
- T2136 *Desmos cochinchinensis* [Syn. *Desmos chinensis*] (Annonaceae); JIA YING ZHAO; Chinese Desmos. Used part: leaf. TCM Effects: To dispel wind and disinhibit damp, transform stasis and relieve pain, fortify spleen and harmonize stomach, interrupt malaria and kill worms. TCM Indications: Wind-damp impediment pain, edema, diarrhea, indigestion, distending pain in stomach duct, malaria, wind papules, knocks and falls, scab and lichen, foot rot. Isolated compounds: 5270, 5985.
- T2137 *Desmos dumosus* (Annonaceae); MAO YE JIA YING ZHAO GEN; Piloseleaf Desmos Root. Isolated compounds: 5268, 5269.
- T2138 *Dialium guineense* (Anacardiaceae); Velvet Tamarind. Isolated compounds: 22839.
- T2139 *Dianella ensifolia* (Liliaceae); SHAN MAO ER; Swordleaf Dianella. Used part: rhizome or whole herb. TCM Effects: To draw out toxin and disperse swelling, dissipate stasis and relieve pain. TCM Indications: Scrofula, sore and lichen, welling abscess and flat abscess, knocks and falls. Isolated compounds: 14639.
- T2140 *Dianella nigra* (Liliaceae); HEI JIE GENG LAN; Black Dianella\*. Isolated compounds: 382, 5019, 5026, 5031.
- T2141 *Dianella tasmanica* (Liliaceae); TA SI MA NI YA JIE GENG LAN; Flax Lily. Isolated compounds: 382, 5019, 5026, 5031.
- T2142 *Dianthus caryophyllus* (Caryophyllaceae); SHE XIANG SHI ZHU; Carnation. Isolated compounds: 5366, 5372, 5529, 5530.
- T2143 *Dianthus chinensis* (Caryophyllaceae); SHI ZHU; Chinese Pink. Used part: aerial parts. TCM Effects: See *Dianthus superbus*. TCM Indications: See *Dianthus superbus*. Isolated compounds: 2068, 2297, 5371, 7521.
- T2144 *Dianthus* sp. (Caryophyllaceae). Isolated compounds: 3454.
- T2145 *Dianthus superbus* (Caryophyllaceae); QU MAI; Lilac Pink. Equivalent plant: *Dianthus chinensis*, *Dianthus versicolor*. Used part: aerial parts. TCM Effects: To disinhibit urine and free strangury, break blood and free menstruation, anticancer. TCM Indications: Strangury, heat strangury, blood strangury, stone strangury, urinary tract infection, urinary stoppage, dripping with inhibited pain, amenorrhea, carcinoma of esophagus, carcinoma of rectum. Isolated compounds: 2280, 2297, 5358, 5359, 5367, 5368, 5369, 5370, 13903, 14718.
- T2146 *Dianthus superbus* var. *longicalycinus* (Caryophyllaceae); CHANG E QU MAI; Longcalyx Pink\*. Isolated compounds: 5358, 5364, 12954.
- T2147 *Dianthus versicolor* (Caryophyllaceae); BIAN SE SHI ZHU; Versicolorous Pink. Used part: aerial parts. TCM Effects: See *Dianthus superbus*. TCM Indications: See *Dianthus superbus*. Isolated compounds: 5358, 5359, 5360, 5361, 5362, 5363, 5364, 5365.
- T2148 *Dicentra cucullaria* (Papaveraceae); DOU ZHUANG HE BAO MU DAN; Dutchman's Breeches. Isolated compounds: 642, 4351, 4353, 15918.
- T2149 *Dicentra eximia* (Papaveraceae); SUI MAO HE BAO MU DAN; Wild Bleedingheart. Isolated compounds: 4352, 4353, 8513.
- T2150 *Dicentra formosa* (Papaveraceae); MEI LI HE BAO MU DAN; Bleedingheart. Isolated compounds: 4353.
- T2151 *Dicentra oregana* (Papaveraceae); E LE GANG HE BAO MU DAN; Oregon Bleedingheart. Isolated compounds: 4353.
- T2152 *Dicentra peregrina* (Papaveraceae); YI YANG HE BAO MU DAN; Peregrin Bleedingheart\*. Isolated compounds: 12603, 19284.
- T2153 *Dicentra pusilla* (Papaveraceae); XI XIAO HE BAO MU DAN; Little Bleedingheart\*. Isolated compounds: 5417.
- T2154 *Dicentra spectabilis* (Papaveraceae); HE BAO MU DAN GEN; Showy Bleedingheart Root. Used part: rhizome. TCM Effects: To dispel wind, quicken blood, settle pain. TCM Indications: Incised wound, sore toxin, stomachache. Isolated compounds: 3494, 3498, 3507, 3508, 4032, 4290, 18655, 19284, 19566.
- T2155 *Dicentra* spp. (Papaveraceae). Isolated compounds: 3498.
- T2156 *Dichelostemma multiflorum*. Isolated compounds: 2613, 2614, 20214.
- T2157 *Dichotomanthes tristaniaecarpa* (Rosaceae); NIU JIN TIAO; Common Oxmuscle. Used part: root cortex. TCM Effects: To clear heat and resolve toxin, suppress cough, stanch bleeding. TCM Indications: Common cold with cough, swelling pain in throat, nosebleed(epistaxis). Isolated compounds: 7276, 7277.
- T2158 *Dichroa febrifuga* (Saxifragaceae); CHANG SHAN; Antifebrile Dichroa. Used part: root. TCM Effects: To dispel phlegm and interrupt malaria. TCM Indications: Malaria, scrofula. Isolated compounds: 5435, 5436, 7747, 10171, 18420.
- T2159 *Dicksonia gigantean* (Dicksoniaceae). Isolated compounds: 16098.
- T2160 *Dicliptera riparia* (Acanthaceae); HE AN GOU GAN CAI; Riparian Dicliptera\*. Isolated compounds: 5437, 5438, 5439.
- T2161 *Dicranopteris pedata* [Syn. *Polypodium pedatum*; *Dicranopteris dichotoma*] (Gleicheniaceae); MANG QI GU; Dichotoma Forked Fern. Used part: yang leaf with petiole. TCM Effects: To transform stasis and stanch bleeding, clear heat and disinhibit urine, resolve toxin and disperse swelling. TCM Indications: Flooding, wound swelling from knocks and falls, bleeding due to external injury, damp-heat strangury pain, leukorrhea, infant diarrhea, hemorrhoids and fistulas, red eyes with gall, burns and scalds, poisonous insect stings. Isolated compounds: 5763, 10106, 12082, 18411, 19088, 19805, 19983, 19987, 20369, 20372.
- T2162 *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodium*] (Papaveraceae); TU CHUANG HUA; Slenderstalk Dicranostigma. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, kill worms. TCM Indications: Pain in throat, toothache, scrofula, bald sores, scab and lichen, welling abscess and boil, common wart. Isolated compounds: 3502, 13716, 15664.
- T2163 *Dicranostigma* spp. (Papaveraceae). Isolated compounds: 3498.
- T2164 *Dictamnus albus* (Rutaceae); BAI SE BAI XIAN; Burning Bush. Isolated compounds: 11376, 15882, 17849, 20002.
- T2165 *Dictamnus angustifolius* (Rutaceae); XIA YE BAI XIAN; Narrowleaf

- Dittary\*. Used part: root cortex. TCM Effects: See *Dictamnus dasycarpus*. TCM Indications: See *Dictamnus dasycarpus*. Isolated compounds: 5443, 5444, 5456, 11424, 11642.
- T2166 *Dictamnus caucasicus* (Rutaceae); GAO JIA SUO BAI XIAN; Caucasian Pittany\*. Isolated compounds: 7703, 18881.
- T2167 *Dictamnus dasycarpus* (Rutaceae); BAI XIAN PI; Densfruit Pittany Root-bark. Equivalent plant: *Dictamnus angustifolius*. Used part: root cortex. TCM Effects: To clear heat and dry damp, dispel wind and relieve itch, resolve toxin. TCM Indications: Dermatitis, psoriasis, icterohepatitis, damp-heat sore and papules, profuse pus, yellow-water sore, damp ulceration on skin, itchy skin, damp-heat jaundice, damp-heat impediment. Isolated compounds: 3040, 4663, 5445, 5446, 5447, 5448, 5449, 5450, 5451, 5452, 5453, 5454, 5455, 7669, 7703, 7945, 11518, 12226, 15882, 15883, 17805, 17849, 20002, 21662.
- T2168 *Dictamnus* spp. (Rutaceae). Isolated compounds: 12847.
- T2169 *Dictyota dichotoma* (Dictyotaceae); WANG DI ZAO. Isolated compounds: 11579.
- T2170 *Dictyota linearis* (Dictyotaceae); XIAN ZHUANG WANG DI ZAO. Isolated compounds: 374, 505, 15391.
- T2171 *Dictyota pfaffii* (Dictyotaceae); BA XI ZONG ZAO; Brazilian Brown Alga *Dictyota pfaffii*. Isolated compounds: 163, 5303, 21724.
- T2172 *Didymocarpus pedicellata* (Gesneriaceae). Isolated compounds: 9305, 16697.
- T2173 *Digenea simplex* (Rhodomelaceae); HAI REN CAO; Simple *Digenea* Frond. Used part: frond. TCM Effects: To expel roundworm. TCM Indications: Ascariasis. Isolated compounds: 936, 2318, 3849.
- T2174 *Digitalis ferruginea* (Scrophulariaceae); XIU MAO DI HUANG; Rusty Foxglove. Isolated compounds: 5522, 9564.
- T2175 *Digitalis lanata* (Scrophulariaceae); MAO HUA MAO DI HUANG; Grecian Foxglove. Used part: leaf. TCM Effects: See *Digitalis purpurea*. TCM Indications: See *Digitalis purpurea*. Isolated compounds: 377, 5523, 5526, 5533, 7557, 8461, 9564, 10351, 12952, 16004.
- T2176 *Digitalis orientalis* (Scrophulariaceae); DONG FANG YANG DI HUANG; Oriental Foxglove\*. Isolated compounds: 6016.
- T2177 *Digitalis purpurea* (Scrophulariaceae); MAO DI HUANG; Common Foxglove. Equivalent plant: *Digitalis lanata*. Used part: leaf. TCM Effects: To strengthen heart and disinhibit urine. TCM Indications: Cardiac failure, edema due to heart disease. Isolated compounds: 2887, 5524, 5526, 7557, 8461, 12436, 12952, 16004, 18216, 18217, 18219, 18220, 18221, 20406.
- T2178 *Digitalis schischkinii* (Scrophulariaceae); SI SHI MAO DI HUANG; Schischkin Foxglove\*. Isolated compounds: 6016.
- T2179 *Digitalis* spp. (Scrophulariaceae). Isolated compounds: 18216, 18217.
- T2180 *Digitalis thapsii* (Scrophulariaceae); SA SHI MAO DI HUANG; Thaps Foxglove\*. Isolated compounds: 3300, 3622.
- T2181 *Dillenia indica* (Dilleniaceae); WU YA GUO; Hondapara. Used part: root or bark. TCM Effects: To promote astriction, resolve toxin. TCM Indications: Dysentery, diarrhea. Isolated compounds: 2333, 5652, 8095, 10339.
- T2182 *Dillenia pentagyna* (Dilleniaceae); XIAO HUA WU YA GUO; Pentagynous *Dillenia*. Isolated compounds: 18728.
- T2183 *Dilophus ligulatus* (Dictyotaceae); DI ZHONG HAI ZONG HAI ZAO; Mediterranean Brown Alga *Dilophus ligulatus*. Isolated compounds: 16495.
- T2184 *Dimocarpus fumatus* (Sapindaceae); YAN SE LONG YAN; Smoke Longan\*. Isolated compounds: 1592, 18718.  
*Dimocarpus longan* = *Euphoria longan*
- T2185 *Dioclea grandiflora* (Fabaceae); DA HUA DI AO DOU. Isolated compounds: 7831.
- T2186 *Dionaea muscipula* (Droseraceae); BU YING CAO; Venus's Flytrap. Isolated compounds: 17568, 17569.
- T2187 *Dionaea rotundifolia* (Droseraceae); YUAN YE BU YING CAO; Round-leaf Flytrap\*. Isolated compounds: 17569.
- T2188 *Dioscorea alata* (Dioscoreaceae); MAO SHU; Winged Yam. Used part: rhizome. TCM Effects: To fortify spleen and check diarrhea, nourish lung and enrich kidney, resolve toxin and close sores. TCM Indications: Spleen vacuity diarrhea, kidney vacuity and emission, vaginal discharge, frequent urination, vacuity taxation cough, diabetes mellitus, ulcerating sores, burns and scalds. Isolated compounds: 835, 836, 3594, 4451, 15528, 17876.
- T2189 *Dioscorea althaeoides* (Dioscoreaceae); SHU KUI YE SHU YU; Hollyhock-like Yam. Used part: rhizome. TCM Effects: To course wind and dispel damp, fortify spleen and disperse food, quicken blood and disperse swelling. TCM Indications: common cold with headache, wind-damp impediment pain, food accumulation distention and fullness, indigestion, knocks and falls. Isolated compounds: 5216, 6437, 6440, 7024, 8968, 20028.
- T2190 *Dioscorea batatas* [Syn. *Dioscorea opposita*] (Dioscoreaceae); SHAN YAO; Common Yam. Equivalent plant: *Dioscorea japonica*. Used part: rhizome. TCM Effects: To fortify spleen and nourish stomach, engender liquid and boost lung, supplement kidney and rough essence. TCM Indications: Reduced food intake due to spleen vacuity, incessant chronic diarrhea, cough and asthma due to lung vacuity, kidney vacuity and emission, vaginal discharge, frequent urination, vacuity heat and diabetes mellitus. Isolated compounds: 36, 618, 917, 2163, 2164, 2165, 2166, 2167, 3040, 3585, 5040, 5694, 6437, 6440, 6442, 6559, 9486, 14232, 14233, 14238, 14239, 17256, 19983, 20369, 21835.
- T2191 *Dioscorea bulbifera* (Dioscoreaceae); HUANG YAO ZI; Airpotato Yam. Used part: tuber. TCM Effects: To dissipate binds and disperse goiter, clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Goiter and tuberculosis, throat impediment, swelling toxin of welling abscess and sore, poisonous snake bite, carcinoma, blood ejection, spontaneous external bleeding, hemoptysis, pertussis, lung heat cough. Isolated compounds: 6434, 6435, 6436, 10774, 17876.
- T2192 *Dioscorea cayenensis* (Dioscoreaceae). Isolated compounds: 6437, 6447, 14699.
- T2193 *Dioscorea cirrhosa* [Syn. *Dioscorea pogonoides*] (Dioscoreaceae); SHU LIANG; Shoulang Yam. Used part: tuber. TCM Effects: To quicken blood and stanch bleeding, rectify *qi* and relieve pain, clear heat and resolve toxin. TCM Indications: Coughing of blood, hemoptysis, blood ejection, spontaneous external bleeding, hematuria, hematochezia, flooding and spotting [= metrorrhagia and metrostaxis], menstrual disorder [= menoxenia], dysmenorrhea, menstrual block,

postpartum abdominal pain, distending pain in stomach duct and abdomen, sand distention and abdominal pain, heat toxin blood dysentery, water diarrhea, pain in joints, painful swelling from knocks and falls, sore and boil, zoster, bleeding due to external injury. Isolated compounds: 17869, 17876, 17888, 17893.

- T2194 *Dioscorea collettii* (Dioscoreaceae); CHA RUI SHU YU; Collett Yam. Used part: rhizome. TCM Effects: To dispel wind and disinherit damp, free network vessels and relieve pain, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, hypertonicity and numbness, *qi* stagnation stomachache, damp-heat jaundice, white turbidity, strangury with pain, leukorrhea, knocks and falls, damp sore with swelling toxin, wind papules, eczema, poisonous snake bite. Isolated compounds: 3922, 3923, 3924, 3925, 5197, 5216, 6440, 6445, 7013, 7024, 11554, 19392, 20028, 22878, 22881.
- T2195 *Dioscorea deltoidea* (Dioscoreaceae); SAN JIAO YE SHU YU; Deltoid Yam. Used part: rhizome. TCM Effects: To supplement stomach and spleen, boost lung and kidney. TCM Indications: Spleen vacuity diarrhea, lung vacuity enduring cough, kidney vacuity and emission, diabetes mellitus. Isolated compounds: 5040, 5041, 12488.
- T2196 *Dioscorea dumetorum* (Dioscoreaceae); JING JI SHU YU; Thorny Yam\*. Isolated compounds: 2163.
- T2197 *Dioscorea futschauensis* (Dioscoreaceae); FU ZHOU SHU YU; Foochow Yam. Equivalent plant: *Dioscorea spongiosa*. Used part: rhizome. TCM Effects: To dispel wind-damp, disinherit damp and turbidity, disperse swelling toxin. TCM Indications: Wind-damp impediment pain, strangury with pain, white turbidity, leukorrhea, damp sore. Isolated compounds: 5216, 6437, 6440, 6443, 7024, 8968, 13990, 13991, 20028.
- T2198 *Dioscorea gracillima* (Dioscoreaceae); XIAN XI SHU YU; Thinnest Yam. Used part: rhizome. TCM Effects: See *Dioscorea hypoglauca*. TCM Indications: See *Dioscorea hypoglauca*. Isolated compounds: 5216, 6437, 6440, 8968, 17973, 17975, 22878.
- T2199 *Dioscorea hirsuta* (Dioscoreaceae); CU MAO SHU YU; Hirsute Yam\*. Isolated compounds: 6439.
- T2200 *Dioscorea hispida* (Dioscoreaceae); BAI SHU LANG; Hispid Yam. Used part: tuber. TCM Effects: To clear heat and resolve toxin, disperse swelling. TCM Indications: Swelling toxin of welling abscess and flat abscess, syphilis, chancre, painful swelling from knocks and falls. Isolated compounds: 6439, 6440.
- T2201 *Dioscorea hypoglauca* [Syn. *Dioscorea collettii* var. *hypoglauca*] (Dioscoreaceae); BI XIE; Hypoglaucous Collett Yam. Equivalent plant: *Dioscorea gracillima*, *Dioscorea tokoro*. Used part: rhizome. TCM Effects: To disinherit damp and turbidity, dispel wind-damp. TCM Indications: Unctuous strangury, white turbidity, vaginal discharge, sores, wind-damp impediment pain. Isolated compounds: 5197, 5216, 6437, 6440, 6441, 6445, 7024, 17977, 17980, 22878, 22879, 22881.
- T2202 *Dioscorea japonica* (Dioscoreaceae); RI BEN SHU YU; Japanese Yam. Used part: rhizome. TCM Effects: See *Dioscorea batatas*. TCM Indications: See *Dioscorea batatas*. Isolated compounds: 6437.
- T2203 *Dioscorea nipponica* (Dioscoreaceae); CHUAN LONG SHU YU; Nippon Yam. Equivalent plant: *Dioscorea nipponica* ssp. *rosthornii*. Used part: rhizome. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, relieve cough and dispel phlegm. TCM Indications: Pain in joints, rheumatic endocarditis, sciatica, chronic bronchitis, chronic trachitis, wind-cold-damp impediment, indigestion, taxation detriment and sprain, malaria, swollen welling abscess. Isolated compounds: 1889, 5216, 6437, 6440, 6443, 6448, 7024, 17479, 20028, 20207.
- T2204 *Dioscorea nipponica* ssp. *rosthornii* (Dioscoreaceae); CHAI HUANG JIANG; Rosthorn Yam. Used part: rhizome. TCM Effects: See *Dioscorea nipponica*. TCM Indications: See *Dioscorea nipponica*. Isolated compounds: 5216, 6440.
- T2205 *Dioscorea panthaica* (Dioscoreaceae); HUANG SHAN YAO; Yellow Yam. Used part: rhizome. TCM Effects: To rectify *qi* and relieve pain, resolve toxin and disperse swelling. TCM Indications: *Qi* stagnation stomachache, vomiting diarrhea with abdominal pain, taxation detriment due to knocks and falls, toxin swelling of sores, poisonous snake bite. Isolated compounds: 2492, 2493, 5216, 6437, 6438, 6440, 17654, 18056.
- T2206 *Dioscorea parviflora* (Dioscoreaceae); XIAO HUA DUN YE SHU YU; Smallflower Yam. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Swelling toxin of welling abscess and boil, soft tissue sprain, bee sting, insect bites. Isolated compounds: 4794, 5040, 5041, 5216, 6440, 8968, 14287, 14653, 16682, 17975, 22878.
- T2207 *Dioscorea rotundata* [Syn. *Dioscorea cayenensis*] (Dioscoreaceae); YUAN SHU YU; Guinea Yam. Isolated compounds: 2166, 8623, 9549, 11246, 14698.
- T2208 *Dioscorea septemloba* (Dioscoreaceae); MIAN BI XIE; Sevenlobed Yam. Used part: rhizome. TCM Effects: To disinherit damp and eliminate turbidity, dispel wind and free impediment. TCM Indications: Strangury with white turbidity, excessive leukorrhea, damp-heat sore toxin, impediment pain in lumbus and knees. Isolated compounds: 5216, 6440.
- T2209 *Dioscorea* sp. (Dioscoreaceae). Isolated compounds: 3209.
- T2210 *Dioscorea spongiosa* (Dioscoreaceae); HAI JIN BI XIE. Used part: rhizome. TCM Effects: See *Dioscorea futschauensis*. TCM Indications: See *Dioscorea futschauensis*. Isolated compounds: 4680, 6437, 6456, 6457, 6458, 6636, 8968, 10896, 11556, 14698, 15985, 17781, 17782, 17975, 19778, 20228, 20229, 20230, 20231, 20232, 20233, 20556, 23019.
- T2211 *Dioscorea tenuipes* (Dioscoreaceae); XI BING SHU YU; Thinstiped Yam. Used part: rhizome. TCM Effects: To dispel wind-damp, soothe sinews and quicken network vessels. TCM Indications: Wind-damp impediment pain, hypertonicity of sinews and vessels, numbness in limbs, knocks and falls, taxation damage hypodynamia. Isolated compounds: 21426.
- T2212 *Dioscorea tokoro* (Dioscoreaceae); SHAN BI XIE; Mountain Yam. Used part: rhizome. TCM Effects: See *Dioscorea hypoglauca*. TCM Indications: See *Dioscorea hypoglauca*. Isolated compounds: 6437, 10961, 12251, 17973, 17975, 20207, 21426, 21427, 21428, 22878, 22924, 22925.
- T2213 *Dioscorea zingiberensis* (Dioscoreaceae); DUN YE SHU YU; Peltate Yam. Used part: rhizome. TCM Effects: To clear lung and relieve cough, disinherit damp and free strangury, free network vessels and relieve pain, resolve toxin and disperse swelling. TCM Indications:

- Lung heat cough, damp-heat strangury pain, wind-damp lumbago, swollen welling abscess and malign sore, sprain from knocks and falls, bee sting, insect bites. Isolated compounds: 3924, 5216, 6440, 6442, 6443, 7024, 8968, 17904, 17975, 17997, 20028, 23005.
- T2214 *Diospyros angustifolia* (Ebenaceae). Isolated compounds: 6461, 6462, 6463.
- T2215 *Diospyros cinnabarina* (Ebenaceae); ZHU HONG SHI; Cinnabar Persimmon\*. Isolated compounds: 8095.
- T2216 *Diospyros ebenum* (Ebenaceae); WU MU XIE; Ceylon Persimmon Sawdust. Used part: sawdust. TCM Effects: To resolve toxin. TCM Indications: Cholera with vomiting. Isolated compounds: 1111, 2169, 2331, 15251.
- T2217 *Diospyros kaki* (Ebenaceae); SHI DI; Persimmon Persistent Calyx. Used part: calyx. TCM Effects: To downbear counterflow and precipitate qi. TCM Indications: Hiccough. Isolated compounds: 1935, 3208, 3210, 8095, 11642, 13212, 14790, 16050.
- T2218 *Diospyros kaki* (Ebenaceae); SHI GEN; Persimmon Root. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Flooding, blood dysentery, hemorrhoids. Isolated compounds: 14026, 15392.
- T2219 *Diospyros kaki* (Ebenaceae); SHI QI; Immature Persimmon Fruit Juice. Used part: unripe fruit juice. TCM Effects: To calm liver. TCM Indications: Hypertension. Isolated compounds: 351.
- T2220 *Diospyros kaki* (Ebenaceae); SHI YE; Persimmon Leaf. Used part: leaf. TCM Effects: To relieve cough and settle asthma, engender liquid and allay thirst, quicken blood and stanch bleeding. TCM Indications: Cough and asthma, lung qi distention, internal bleeding. Isolated compounds: 8012, 15184, 16050, 22270.
- T2221 *Diospyros kaki* (Ebenaceae); SHI ZI; Persimmon. Used part: fruit. TCM Effects: To clear heat, engender liquid, moisten lung, resolve toxin. TCM Indications: Cough, heat vexation and thirst, blood ejection, mouth sore, heat dysentery, hematochezia. Isolated compounds: 3774.
- T2222 *Diospyros lotus* (Ebenaceae); JUN QIAN ZI; Dateplum Persimmon. Used part: fruit. TCM Effects: To clear heat, allay thirst. TCM Indications: Heat vexation, diabetes mellitus. Isolated compounds: 2331, 2478, 11379, 13098, 13463, 14541.
- T2223 *Diospyros mafiensis* (Ebenaceae); BA BU YA XIN JI NEI YA SHI; Papua-New-Guinea Persimmon\*. Isolated compounds: 2447.
- T2224 *Diospyros maritima* (Ebenaceae); HAI SHI; Maritime Persimmon\*. Isolated compounds: 2402, 2403, 3541, 6451, 7189, 7404, 7448, 7449, 11790, 14348, 19542.
- T2225 *Diospyros mollis* (Ebenaceae); RUAN SHI; Soft Persimmon\*. Isolated compounds: 6460.
- T2226 *Diospyros rhombifolia* (Ebenaceae); LAO YA SHI; Diamondleaf Persimmon. Isolated compounds: 1935, 3846, 11642, 12065, 12071, 12077, 12078, 12081, 13479, 15525, 18330, 18378, 18414, 19087.
- T2227 *Diospyros* sp. (Ebenaceae). Isolated compounds: 6459, 17568, 20711.
- T2228 *Diospyros sylvatica* (Ebenaceae). Isolated compounds: 6450, 14144, 14844.
- T2229 *Diospyros zombensis* (Ebenaceae). Isolated compounds: 18229.  
*Diphasiastrum alpinum* = *Lycopodium alpinum*
- T2230 *Diphylleia cymosa* (Berberidaceae); SHAN XI WO ER QI; American Umbrellaleaf. Isolated compounds: 17341.
- T2231 *Diphylleia grayi* (Berberidaceae); SHAN HE YE; Japanese Umbrellaleaf. Used part: rhizome. TCM Effects: See *Diphylleia sinensis*. TCM Indications: See *Diphylleia sinensis*. Isolated compounds: 4962, 6490, 12020, 17337, 17338, 17347, 17592.
- T2232 *Diphylleia sinensis* (Berberidaceae); WO ER QI; Chinese Umbrellaleaf. Equivalent plant: *Diphylleia grayi*. Used part: rhizome. TCM Effects: To dispel wind-damp, clear heat and cool blood, quicken blood and relieve pain, drain precipitation. TCM Indications: Rheumatic arthritis, pain in lumbus and legs, steaming bone taxation fever, knocks and falls, menstrual disorder, painful bind in lesser-abdomen, swollen welling abscess. Isolated compounds: 1533, 4962, 5074, 5093, 6490, 11592, 12020, 17337, 17341, 17592, 17594.
- T2233 *Diploclisia glaucescens* (Menispermaceae); CANG BAI CHENG GOU FENG; Glauculent Diploclisia. Used part: lianoid stem. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Wind-damp bone pain, swelling pain in throat, cholecystitis, dysentery, urinary tract infection, poisonous snake bite. Isolated compounds: 6016, 6679, 7788, 8652, 13411, 16672, 18162, 18713.
- T2234 *Dipsacus asperoides* (Dipsacaceae); CHUAN XU DUAN; Himalayan Teasel. Equivalent plant: *Dipsacus japonicus*. Used part: root. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, joint bones, check flooding and spotting. TCM Indications: Limp aching lumbus and knees, wind-damp impediment pain, flooding and spotting, profuse menstruation, fetal bleeding, knocks and falls. Isolated compounds: 323, 818, 1577, 1890, 1891, 4232, 4234, 4680, 5380, 7475, 8642, 8643, 8723, 9260, 9264, 12950, 13298, 14180, 14600, 17089, 18717, 19983, 20446, 20503, 21550, 21951, 22831, 22832, 22833, 22834.
- T2235 *Dipsacus japonicus* (Dipsacaceae); XU DUAN; Japanese Teasel. Used part: root. TCM Effects: See *Dipsacus asperoides*. TCM Indications: See *Dipsacus asperoides*. Isolated compounds: 11817.
- T2236 *Dipterus hispidus*. Isolated compounds: 15931.
- T2237 *Dipteryx odorata* (Fabaceae); XIANG DOU. Isolated compounds: 1388, 1415, 3602, 5835.
- T2238 *Discaria americana* (Rhamnaceae). Isolated compounds: 6505, 6506.
- T2239 *Distemonanthus benthamianus* (Fabaceae); NI RI LI YA LIANG RUI SU MU; Nigerian Satinwood. Isolated compounds: 3611, 16440.
- T2240 *Diuranthera inarticulata* (Liliaceae); NAN CHUAN LU SI CAO; S. Sichuan Egretgrass. Isolated compounds: 6526, 6527.
- T2241 *Dizygotheca kerchoveana*. Isolated compounds: 4161, 4162, 8638, 8639.
- T2242 *Dodonaea* spp. (Sapindaceae). Isolated compounds: 19312.
- T2243 *Dodonaea viscosa* (Sapindaceae); CHE SANG ZI YE; Clammy Hopseedbush Leaf. Used part: leaf. TCM Effects: To clear heat and percolate damp, disperse swelling and resolve toxin. TCM Indications: Dribbling urination, dribbling urinary block, shoulder swelling, clove boil, swelling pain in perineum, burns and scalds. Isolated compounds: 2887, 3551, 3829, 3831, 9249, 11648, 20369.
- T2244 *Doellingeria scaber* [Syn. *Aster scaber*] (Asteraceae); DONG FENG CAI; Scabrous Doellingeria. Used part: rhizome and whole herb. TCM Effects: To clear heat and resolve toxin, brighten eyes, disinhibit throat.

- TCM Indications: Wind-heat common cold, dizziness, red eyes with gall, red swollen in throat, acute nephritis, lung disease with blood ejection, knocks and falls, swollen welling abscess and clove sores, snake bite. Isolated compounds: 5354, 5355, 6918, 7950, 20237.
- T2245 *Dolichandrone stipulata* (Bignoniaceae); XI NAN MAO WEI SHU; Stipulate Dolichandrone. Isolated compounds: 16734.
- T2246 *Dolichos lablab* (Fabaceae); BIAN DOU; Hyacinth Dolichos Seed. Used part: white ripe seed. TCM Effects: To fortify spleen, transform damp. TCM Indications: Spleen vacuity with damp, reduced food intake and sloppy stool, excessive leukorrhea, summerheat-damp vomiting and diarrhea, vexation and thirst, oppression in chest. Isolated compounds: 3208, 17425, 20369, 22975.
- Dolichus angularis* = *Vigna angularis*
- T2247 *Dorstenia barteri* var. *subtriangularis* (Liliaceae). Isolated compounds: 2153, 2154, 2155, 6337.
- T2248 *Dorstenia elliptica* (Liliaceae); TUO YUAN DUO TAN CAO. Isolated compounds: 6304, 6389, 10812.
- T2249 *Dorstenia kameruniana* (Liliaceae). Isolated compounds: 17823.
- T2250 *Dorstenia mannii* (Liliaceae); MAN NI DUO TAN CAO. Isolated compounds: 6561, 6562, 6563, 6564, 6565, 6566, 6567, 6568, 6569, 6570, 6571, 6572.
- T2251 *Doryphora sassafras*. Isolated compounds: 6574.
- T2252 *Dracaena cinnabari* (Liliaceae); ZHU HONG LONG XUE SHU; Cinnabar Dracaena. Isolated compounds: 21852.
- T2253 *Dracaena cochinchinensis* (Liliaceae); JIAN YE LONG XUE SHU; Swordleaf Dracaena. Equivalent plant: *Daemonorops draco*. Used part: balsam. TCM Effects: To dissipate stasis and settle pain, stanch bleeding, close sores and engender flesh. TCM Indications: Knocks and falls, internal damage stasis pain, dysmenorrhea, postpartum blood stasis abdominal pain, incessant bleeding, scrofula, ulcer of lower limb, hemorrhoids. Isolated compounds: 2449, 3867, 5754, 7525, 8630, 9368, 9482, 10019, 10408, 11600, 13011, 13928, 14022, 14235, 18163.
- T2254 *Dracaena draco* (Liliaceae); LONG XUE SHU; Dragontree. Isolated compounds: 955, 5979, 5991, 6032, 6437, 6440, 6576, 6577, 6578, 6579, 10175, 11504, 13012, 14698, 19983, 19997.
- T2255 *Dracaena surculosa* (Liliaceae); DUO ZHI LONG XUE SHU. Isolated compounds: 7976, 7977, 8690, 8694.
- T2256 *Dracocephalum kotschyi* (Lamiaceae); YI LANG QING LAN; Iran Dragonhead\*. Isolated compounds: 3761, 3762, 4088, 12842, 12845, 12846, 13729, 16050, 19983, 22270.
- T2257 *Dracocephalum moldavicum* (Lamiaceae); XIANG QING LAN; Dragonhead. Used part: whole herb. TCM Effects: To course wind and clear heat, disinhibit throat and relieve cough, cool liver and stanch bleeding. TCM Indications: Common cold with fever, headache, swelling pain in throat, cough and asthma, dysentery, jaundice, blood ejection, spontaneous external bleeding, wind papule itching. Isolated compounds: 3760, 15498, 21360.
- T2258 *Dracocephalum rupestre* (Lamiaceae); YANG QING LAN; Rupestrine Dragonhead. Used part: whole herb. TCM Effects: To course wind and clear heat, cool liver and resolve toxin. TCM Indications: Common cold with headache, swelling pain in throat, cough, dysentery, jaundice. Isolated compounds: 3674.
- T2259 *Dracula chimaera* (Orchidaceae). Isolated compounds: 4445, 4446, 16904.
- T2260 *Dracula cordobae* (Orchidaceae). Isolated compounds: 4445, 4446, 16904.
- T2261 *Drechslera siccans* (Orchidaceae). Isolated compounds: 6598.
- T2262 *Dregea sinensis* (Asclepiadaceae); KU SHENG; Chinese Dregea. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, relieve cough and transform phlegm, quicken blood and resolve toxin. TCM Indications: Wind-damp impediment pain, cough of phlegm asthma, fracture due to knocks and falls, swollen sore of welling abscess and boil, galactostasis. Isolated compounds: 6599, 6600, 6601, 6602, 6603.
- T2263 *Dregea volubilis* (Asclepiadaceae); NAN SHAN TENG; Twisting Dregea. Used part: whole herb or tuber. TCM Effects: To dispel wind, eliminate damp, relieve pain, clear heat, harmonize stomach. TCM Indications: Common cold, painful joints due to rheumatalgia, lumbago, vomiting in pregnancy, cancer of esophagus, carcinoma of stomach, malaria. Isolated compounds: 22611, 22612, 22613.
- T2264 *Drimia robusta* (Liliaceae). Isolated compounds: 10693, 22250.
- T2265 *Drosera intermedia* (Droseraceae); ZHONG JIAN MAO GAO CAI; Intermediate Sundew\*. Isolated compounds: 17569.
- T2266 *Drosera peltata* (Droseraceae); DUN ZHUANG MAO GAO CAI; Peltate Sundew\*. Isolated compounds: 6605.
- T2267 *Drosera peltata* var. *lunata* (Droseraceae); MAO GAO CAI; Lunate Peltate Sundew. Used part: whole herb. TCM Effects: To dispel wind and relieve pain, quicken blood, resolve toxin. TCM Indications: Wind-damp impediment pain, knocks and falls, taxation damage in lumbar muscle, stomachache, common cold, swelling pain in throat, red and white dysentery, malaria, child *gan* accumulation, eye screen, scrofula, eczema, scab sore. Isolated compounds: 6605, 9724, 9725, 10060, 17568.
- T2268 *Drosera rotundifolia* (Droseraceae); YUAN YE MAO GAO CAI; Roundleaf Sundew. Used part: whole herb. TCM Effects: To dispel phlegm, suppress cough, calm asthma, check dysentery. TCM Indications: Cough, asthma, pertussis, dysentery. Isolated compounds: 17568, 18930.
- T2269 *Drosera* sp. (Droseraceae). Isolated compounds: 9568, 14541.
- T2270 *Drosera whittakeri* (Droseraceae); HUI TE KE MAO GAO CAI; Whittaker Sundew\*. Isolated compounds: 6605, 10060.
- T2271 *Dryanobulanops* spp. Isolated compounds: 15931.
- T2272 *Drymaria diandra* [Syn. *Drymaria cordata* ssp. *diandra*] (Caryophyllaceae); ER RUI HE LIAN DOU. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Jaundice, edema, malaria, fright wind, leg *qi* due to wind-damp, toxin of sore welling abscess and boils, child *gan* accumulation, eye screen, outcrop. Isolated compounds: 5353, 6609, 9815, 9818, 11773, 14519, 21461.
- T2273 *Drynaria fortunei* (Drynariaceae); GU SUI BU; Fortune's Drynaria Rhizome. Equivalent plant: *Pseudodrynaria coronans*. Used part: rhizome. TCM Effects: To supplement kidney and strengthen bones, soothe sinews and relieve pain. TCM Indications: Kidney vacuity lumbago, tinnitus and deafness, tooth mobilizing, wrenching and contusion from knocks and falls, sinew and bone wound, alopecia



- areata, white patch wind. Isolated compounds: 3040, 9639, 15286, 19983, 20369.
- T2274 *Dryobalanops aromatica* (Dipterocarpaceae); BING PIAN; Borneol. Used part: resin. TCM Effects: To open orifices and free spirit, dissipate heat and relieve pain, eliminate screen and brighten eyes. TCM Indications: Angina pectoris, phlegm reversal, wind stroke, coma, convulsion, swelling pain in throat, mouth sore, swollen and painful eyes, sores, ulcer. Isolated compounds: 984, 1853, 2550, 2553, 3048, 3241, 3242, 6502, 6610, 6741, 7338, 7338, 9669, 11259, 11260, 16050.
- T2275 *Dryobalanops aromatica* (Dipterocarpaceae); LONG NAO GAO XIANG; Borneol Oil-Resin. Used part: resin. TCM Effects: To dispel wind and open orifices. TCM Indications: Deafness. Isolated compounds: 266, 12158, 12159, 14641, 15930, 15931, 16402.
- T2276 *Dryobalanops oblongifolia* (Dipterocarpaceae); JU YUAN YE LONG NAO XIANG; Oblong-leaf Borneol Oil-Resin\*. Isolated compounds: 6503, 6504.
- T2277 *Dryopteris austriaca* (Dryopteridaceae); AO DI LI LIN MAO JUE; Broad Buckler-fern. Used part: rhizome. TCM Effects: To expel worms. TCM Indications: Taeniasis. Isolated compounds: 851, 1895, 1897, 15749, 22029, 22032, 22033.
- T2278 *Dryopteris caucasica* (Dryopteridaceae); GAO JIA SUO LIN MAO JUE; Caucasian Buckler-fern\*. Isolated compounds: 7809.
- T2279 *Dryopteris championii* (Dryopteridaceae); MAO GUAN ZHONG; Champion Wood Fern. Used part: dried rhizome. TCM Effects: To clear heat and resolve toxin, calm asthma, stanch bleeding and close sores, expel worms. TCM Indications: Common cold, red eyes with gall, asthma, hematochezia, ulcerating sore toxin, scalds, ancylostomiasis. Isolated compounds: 849, 850, 851, 853, 854, 1895, 22032, 22033.
- T2280 *Dryopteris chrysocoma* (Dryopteridaceae); HUANG MAO LIN MAO JUE; Goldencoma Shield Fern. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dispel stasis and stanch bleeding. TCM Indications: Heat toxin macula, incised wound, postpartum blood qi distending pain, flooding and spotting with vaginal discharge, spontaneous external bleeding, dysentery. Isolated compounds: 7809.
- T2281 *Dryopteris crassirhizoma* (Dryopteridaceae); GUAN ZHONG; Male Fern Rhizome. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, kill worms. TCM Indications: Wind-heat common cold, warm heat macular eruption, blood ejection, hemoptysis, spontaneous external bleeding, hematochezia, flooding and spotting, blood dysentery, vaginal discharge, ancylostomiasis, ascariasis, oxyuria disease. Isolated compounds: 632, 1895, 1896, 1897, 4214, 4215, 4216, 5244, 6611, 7758, 7796, 7797, 7809, 7810, 9635, 9641, 10167, 15286, 16648, 20499.
- T2282 *Dryopteris filix-mas* (Dryopteridaceae); MIAN MA; Male-fern. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, expel worms, disinhibit water and disperse edema. TCM Indications: Common cold with fever, encephalitis B, epidemic parotitis, measles papules, flooding and spotting, intestinal parasitic disease, edema, inhibited urination. Isolated compounds: 1897, 5402, 7798, 7809, 9385.
- T2283 *Dryopteris marginalis* (Dryopteridaceae); BIAN BAO LIN MAO JUE; Evergreen Wood Fern. Isolated compounds: 13559.
- T2284 *Dryopteris marginata* (Dryopteridaceae); BIAN YUAN LIN MAO JUE; Marginated Buckler-fern\*. Isolated compounds: 13559.
- T2285 *Dryopteris pacifica* (Dryopteridaceae); TAI PING YANG LIN MAO JUE; Pacific Wood Fern. Isolated compounds: 13559.
- T2286 *Dryopteris sacrosancta* (Dryopteridaceae); RI BEN LIN MAO JUE; Brown-margin Wood Fern. Isolated compounds: 13559.
- T2287 *Dryopteris sublaeta* (Dryopteridaceae); QIAN LIE LIN MAO JUE; Fortunate Wood Fern. Isolated compounds: 6137, 21721.
- T2288 *Drypetes armoracia* (Euphorbiaceae); LA GEN HE GUO MU; Armoracia Drypetes\*. Isolated compounds: 6613, 6614.
- T2289 *Drypetes molunduan* (Euphorbiaceae). Isolated compounds: 266, 2178, 6615, 6616, 7948.
- T2290 *Duchesnea indica* (Rosaceae); SHE MEI; Indian Mockstrawberry. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, dissipate stasis and disperse swelling. TCM Indications: Febrile diseases, fright epilepsy, common cold, dysentery, jaundice, red eyes, mouth sore, sore pharynx, epidemic parotitis, swollen boil, poisonous snake bite, blood ejection, flooding and spotting, menstrual disorder, burns and scalds, painful swelling from knocks and falls. Isolated compounds: 6619, 6620, 17696, 18916.
- T2291 *Ducrosia anethifolia*. Isolated compounds: 4809, 16488.
- T2292 *Duguetia* spp. (Annonaceae). Isolated compounds: 15751.
- T2293 *Dumortiera hirsuta* (Marchantiaceae); MAO DI QIAN. Used part: thallus. TCM Effects: To clear heat, draw out toxin, engender flesh. TCM Indications: Heat toxin sore and welling abscess, enduring sores, wound, burns and scalds. Isolated compounds: 4490, 6634, 7085, 10540.
- T2294 *Dunnia sinensis* (Rubiaceae); XIU QIU QIAN CAO; Chinese Dunnia. Used part: root. TCM Effects: To clear heat and drain fire. Isolated compounds: 6639, 6640.
- T2295 *Duranta repens* (Verbenaceae); JIA LIAN QIAO; Creeping Skyflower. Used part: fruit. TCM Effects: To quicken blood and relieve pain, interrupt malaria. TCM Indications: Malaria, painful wound from knocks and falls. Isolated compounds: 5916, 5917, 6244, 6903, 6904, 10750, 18626, 18917, 19540.
- T2296 *Duranta repens* (Verbenaceae); JIA LIAN QIAO YE; Creeping Skyflower Leaf. Used part: leaf. TCM Effects: To dissipate stasis and resolve toxin. TCM Indications: Stasis swelling from knocks and falls, swollen welling abscess. Isolated compounds: 3834, 8616, 8617, 9230, 9922, 13126, 16755, 19582, 21685.
- T2297 *Dyosma aurantiocaulis* (Berberidaceae); DUO HUA BA JIAO LIAN; Manyflower Dyosma\*. Isolated compounds: 17337, 17341.
- T2298 *Dyosma difformis* (Berberidaceae); XIAO BA JIAO LIAN; Dwarf Many-flowered May-apple. Used part: root and rhizome. TCM Effects: To transform phlegm and dissipate binds, dispel stasis and relieve pain, clear heat and resolve toxin. TCM Indications: Swelling pain in throat, swollen welling abscess, clove sore, pneumonia, parotitis, poisonous snake bite, scrofula, knocks and falls. Isolated compounds: 5074, 5093, 17592.
- T2299 *Dyosma furfuracea* (Berberidaceae); BI LIN BA JIAO LIAN;

Furfuraceous Many-flowered May-apple\*. Isolated compounds: 5074, 5093, 17592.

- T2300 *Dysosma guangxiensis* (Berberidaceae); GUANG XI BA JIAO LIAN; Guangxi Many-flowered May-apple\*. Isolated compounds: 5074, 5093, 17592.
- T2301 *Dysosma majorensis* [Syn. *Podophyllum majorensis*; *Dysosma lichuanensis*] (Berberidaceae); BAI BA JIAO LIAN; White Dysosma\*. Used part: root and rhizome. TCM Effects: To enrich *yin* and supplement kidney, clear lung and moisten dryness, resolve toxin and disperse swelling. TCM Indications: Taxation damage and sinew bone pain, impotence, stomachache, innominate toxin swelling, knife wound. Isolated compounds: 5074, 5093, 17337, 17341, 17592, 17594.
- T2302 *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*] (Berberidaceae); LIU JIAO LIAN; Sixangular Dysosma. Equivalent plant: *Dysosma veitchii*, *Dysosma versipellis*. Used part: rhizome and root. TCM Effects: To transform phlegm and dissipate binds, dispel stasis and relieve pain, clear heat and resolve toxin. TCM Indications: Cough, swelling pain in throat, scrofula, goiter and tuberculosis, swollen welling abscess, clove sore, poisonous snake bite, knocks and falls, pain in joints. Isolated compounds: 1372, 1935, 4962, 5070, 5074, 5093, 11592, 17337, 17341, 17592, 17594.
- T2303 *Dysosma subrosea* (Berberidaceae); CHONG MING BA JIAO LIAN; Chongming Many-flowered May-apple\*. Isolated compounds: 5074, 5093, 17592.
- T2304 *Dysosma veitchii* (Berberidaceae); CHUAN BA JIAO LIAN; Veitch Dysosma. Used part: rhizome and root. TCM Effects: See *Dysosma pleiantha*. TCM Indications: See *Dysosma pleiantha*. Isolated compounds: 5074, 5093, 17592, 18317.
- T2305 *Dysosma versipellis* [Syn. *Podophyllum versipelle*] (Berberidaceae); GUI JIU; Common Dysosma. Used part: rhizome and root. TCM Effects: See *Dysosma pleiantha*. TCM Indications: See *Dysosma pleiantha*. Isolated compounds: 4962, 5074, 5093, 17592, 17597, 17598, 17599.
- T2306 *Dysoxylum acutangulum* (Meliaceae); RUI JIAO JIAN MU; Acuteangulus Pencilwood\*. Isolated compounds: 9877.
- T2307 *Dysoxylum alliaceum* (Meliaceae); CONG JIAN MU; Alliaceous Pencilwood\*. Isolated compounds: 9877.
- T2308 *Dysoxylum binectariferum* (Meliaceae); HONG GUO JIAN MU; Redfruit Pencilwood. Isolated compounds: 6656.
- T2309 *Dysoxylum hainanense* (Meliaceae); HAI NAN JIAN MU; Hainan Pencilwood. Isolated compounds: 235, 276, 6098, 6153, 6154, 6155, 7084, 7208, 7670, 21406.
- T2310 *Dysoxylum hongkongense* (Meliaceae); XIANG GANG JIAN MU; Hongkong Pencilwood. Used part: leaf. TCM Effects: To interrupt malaria. TCM Indications: Malaria. Isolated compounds: 7065, 9956, 9957, 21684.
- T2311 *Dysoxylum macranthum* (Meliaceae); DA HUA JIAN MU; Bigflower Pencilwood\*. Isolated compounds: 6645, 6646, 6647, 6648, 6649, 6650, 6651, 6652, 6653, 6654, 6655.
- T2312 *Dysoxylum malabaricum* (Meliaceae); MA LA BA JIAN MU; Malaba Pencilwood\*. Isolated compounds: 162, 7094.
- E**
- T2313 *Ecballium elaterium* (Cucurbitaceae); PEN GUA; Squirting Cucumber. Isolated compounds: 4317, 4320, 4323, 4327.
- T2314 *Echinacea purpurea* (Asteraceae); ZI HUA SONG GUO JU; Purple Conedaisy. Isolated compounds: 6697.
- T2315 *Echinops giganteus* (Asteraceae); JU DA LAN CI TOU; Grand Globethistle\*. Isolated compounds: 9995, 14165.
- T2316 *Echinops grijsii* (Asteraceae); HUA DONG LAN CI TOU; East China Globethistle. Used part: root. TCM Effects: See *Rhaponticum uniflorum*. TCM Indications: See *Rhaponticum uniflorum*. Isolated compounds: 2306, 4680, 5404, 7730, 9042, 9486, 9669, 11533, 12843, 12891, 13687, 13776, 14630, 18190, 19302, 19303, 19983.
- T2317 *Echinops ritro* (Asteraceae); XIN JIANG LAN CI TOU; Sinkiang Globethistle. Used part: root. TCM Effects: See *Rhaponticum uniflorum*. TCM Indications: See *Rhaponticum uniflorum*. Isolated compounds: 1110, 1111, 4126, 4680, 6691, 6692, 19983.
- T2318 *Echinosophora koreensis*. Isolated compounds: 6690.
- T2319 *Echium plantagineum* (Boraginaceae); CHE QIAN YE LAN JI; Purple Viper's-bugloss. Isolated compounds: 6684.
- T2320 *Echium vulgare* (Boraginaceae); LAN JI; Blue Thistle. Isolated compounds: 9316, 12925.
- T2321 *Ecklonia kurome* (Alariaceae); HEI KUN BU; Tangle Thallus. Used part: dried thallus. TCM Effects: See *Laminaria japonica*. TCM Indications: See *Laminaria japonica*. Isolated compounds: 2366, 2367, 5484, 6700, 17172, 17173, 21836.
- T2322 *Ecklonia stolonifera* (Alariaceae); ZONG ZAO; Brown Alga *Ecklonia stolonifera*. Isolated compounds: 5484, 6700, 6701, 17173. *Eclipta alba* = *Eclipta prostrata*
- T2323 *Eclipta prostrata* [Syn. *Eclipta alba*] (Asteraceae); MO HAN LIAN; Yerbadetajo. Used part: aerial parts. TCM Effects: To supplement liver and kidney, cool blood and stanch bleeding. TCM Indications: Tooth mobilizing, premature graying in beard and hair, dizziness and tinnitus, limp aching lumbus and knees, *yin* vacuity blood heat, hemoptysis, blood ejection, duodenal bleeding, nosebleed(epistaxis), hematuria, blood dysentery, flooding and spotting, bleeding due to external injury, eczema of skin, bleeding of skin, snake bite. Isolated compounds: 2775, 2776, 2784, 3558, 5101, 5102, 6702, 6703, 6704, 6705, 6706, 6707, 9369, 11374, 15527, 21018, 21019, 21020.
- T2324 *Egletes viscosa* NIAN XING AI LEI JU. Isolated compounds: 20978.
- T2325 *Eichhornia crassipes* (Pontederiaceae); SHUI HU LU; Common Waterhyacinth. Used part: whole herb or root. TCM Effects: To resolve toxin and eliminate damp, dispel wind-heat. TCM Indications: Wind-heat common cold, edema, heat strangury, urethral stone, wind papules, damp sore, swollen boil. Isolated compounds: 5020, 9621, 17127.
- T2326 *Elaeagnus angustifolia* (Elaeagnaceae); SHA ZAO; Russianolive. Used part: fruit. TCM Effects: To nourish liver and boost kidney, fortify spleen and regulate menstruation. TCM Indications: Liver vacuity dim vision, kidney vacuity lumbago, spleen vacuity diarrhea, indigestion, vaginal discharge, menstrual disorder. Isolated compounds: 2843, 2977, 3308, 6853, 9234, 9235, 9236, 15363, 16050.
- T2327 *Elaeagnus angustifolia* (Elaeagnaceae); SHA ZAO SHU PI;

- Russianolive Bark. Used part: bark. TCM Effects: To clear heat and relieve cough, disinhibit damp and relieve pain, resolve toxin, stanch bleeding. TCM Indications: Chronic trachitis, stomachache, enteritis, acute nephritis, chronic nephritis, icterohepatitis, vaginal discharge, burns and scalds, bleeding due to external injury. Isolated compounds: 5625, 6736, 14747, 14751, 21071.
- T2328 *Elaeis guineensis* (Arecaceae); YOU ZONG; Oilpalm. Used part: root. TCM Effects: To dispel stasis and disperse swelling. TCM Indications: Swelling pain due to stasis accumulation. Isolated compounds: 3208, 12569, 16561.
- T2329 *Elaeocarpus mastersii* (Elaeocarpaceae); MA SI TE SI DU YING; Masters Elaeocarpus. Isolated compounds: 6346, 14342.
- T2330 *Elaeocarpus parvifolius* (Elaeocarpaceae); XIAO YE DU YING; Small-leaf Elaeocarpus\*. Isolated compounds: 14340, 14341, 14342, 14346.
- T2331 *Elephantopus carolinianus* (Asteraceae); KA LUO LAI NA DI DAN CAO; Carolina Elephantfoot\*. Isolated compounds: 5168.
- T2332 *Elephantopus elatus* (Asteraceae); GAO DI DAN CAO; High Elephantfoot\*. Isolated compounds: 6750, 6751.
- T2333 *Elephantopus mollis* (Asteraceae); ROU MAO DI DAN CAO; Hawaiian Elephantfoot. Isolated compounds: 14896, 14897, 17042.
- T2334 *Elephantopus scaber* (Asteraceae); KU DI DAN; Scabrous Elephantfoot. Used part: whole herb. TCM Effects: To clear heat, cool blood, resolve toxin, disinhibit damp. TCM Indications: Common cold, pertussis, tonsillitis, pharyngolaryngitis, conjunctivitis, jaundice, nephritis with edema, menstrual disorder, vaginal discharge, sore and boil, eczema, snake or insect bites. Isolated compounds: 5168, 6918, 13098, 13100, 20369.
- T2335 *Elephantus nudatus* (Asteraceae); LUO DI DAN CAO; Node Elephantfoot\*. Isolated compounds: 15857.
- T2336 *Elephas maximus* (Elephantidae); XIANG DAN; Elephant Gall. Used part: gall. TCM Effects: To clear liver and brighten eyes, resolve toxin and disperse swelling. TCM Indications: Eye screen, gan accumulation, bad breath, swelling of sores. Isolated compounds: 350.
- T2337 *Elephas maximus* (Elephantidae); XIANG GU; Elephant Bone. Used part: bone. TCM Effects: To resolve toxin and engender flesh. TCM Indications: Stomach heat vomiting, diarrhea with pus blood, ulcer of lower limb. Isolated compounds: 10660.
- T2338 *Elephas maximus* (Elephantidae); XIANG ROU; Elephant Meat. Used part: meat. TCM Indications: Bald sores. Isolated compounds: 4221.
- T2339 *Eleutherine americana* (Iridaceae); XIAO HONG SUAN; American Eleutherine. Isolated compounds: 6752, 6753.  
*Eleutherococcus giraldii* = *Acanthopanax giraldii*  
*Eleutherococcus senticosus* = *Acanthopanax senticosus*
- T2340 *Elsholtzia bodinieri* (Lamiaceae); FENG WEI CHA. Used part: whole herb. TCM Effects: To dissipate exopathogen, rectify *qi* and harmonize stomach. TCM Indications: Common cold, red swollen in throat, red eyes with gall, stomatitis, toothache, hepatitis, indigestion. Isolated compounds: 2526.
- T2341 *Elsholtzia ciliata* (Lamiaceae); BAN BIAN SU; Common Elsholtzia. Used part: whole herb. TCM Effects: To effuse sweat and resolve summerheat, transform damp and disinhibit urine. TCM Indications: Summer common cold, summerheat stroke, diarrhea, inhibited urination, edema, eczema, welling abscess. Isolated compounds: 6178, 6763, 8312, 10025, 11276, 11754, 14794, 15238, 15239, 15240, 21391.
- T2342 *Elsholtzia nipponica* (Lamiaceae); RI BEN XIANG RU; Japanese Elsholtzia\*. Isolated compounds: 17089.
- T2343 *Elsholtzia splendens* (Lamiaceae); XIANG RU; Haichow Elsholtzia. Used part: aerial parts. TCM Effects: To effuse sweat and eliminate summerheat, move water and dissipate damp, warm stomach and regulate center. TCM Indications: Fever, aversion of cold, headache, absence of sweating, abdominal pain, vomiting and diarrhea, edema and inhibited urination, beriberi. Isolated compounds: 6764, 21391.
- T2344 *Embelia barbeyana* (Myrsinaceae); BA BEI SUAN TENG ZI. Isolated compounds: 6767.
- T2345 *Embelia kilimandscharica* (Myrsinaceae). Isolated compounds: 6767.
- T2346 *Embelia oblongifolia* (Myrsinaceae); MA GUI HUA; Manyerve Embelia. Used part: fruit. TCM Effects: To expel worms, check diarrhea. TCM Indications: Taeniasis, diarrhea. Isolated compounds: 6767.
- T2347 *Embelia parviflora* (Myrsinaceae); XIAO HUA SUAN TENG ZI; Smallflower Embelia. Used part: root or vine. TCM Effects: To supplement blood, quicken blood, strengthen lumbus and knees. TCM Indications: Blood vacuity, menstrual disorder, amenorrhea, postpartum vacuity weakness, aching in lumbus and legs, fracture due to knocks and falls. Isolated compounds: 13687, 20168.
- T2348 *Embelia ribes* (Myrsinaceae); XIAN SUAN QIANG; Whiteflower Embelia. Used part: root. TCM Effects: To quicken blood and regulate menstruation, clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Amenorrhea, dysentery, diarrhea, child head sore, itchy skin, knocks and falls, bleeding due to external injury, poisonous snake bite. Isolated compounds: 6767, 22478.
- T2349 *Embelia robusta* (Myrsinaceae); CU ZHUANG SUAN TENG ZI; Robust Embelia\*. Isolated compounds: 6767.
- T2350 *Embelia schimperi* (Myrsinaceae); KEN NI YA XIAN SUAN QIANG; Kenya Embelia\*. Isolated compounds: 6768, 19466.
- T2351 *Embelia tsjersium-cottam* (Myrsinaceae). Isolated compounds: 6767.
- T2352 *Emericella purpurea* (Trichocomaceae); ZI LUO KE BAO. Isolated compounds: 6773, 6774, 6775.
- T2353 *Emericella unguis* (Trichocomaceae). Isolated compounds: 9084.
- T2354 *Emericella varicolor* (Trichocomaceae); BIAN SE HE KE BAO. Isolated compounds: 7660, 11410.
- T2355 *Emerita analoga*. Isolated compounds: 19431.
- T2356 *Emilia coccinea* (Asteraceae); FEI YI DIAN HONG; Red Tasselflower\*. Isolated compounds: 11807.
- T2357 *Emilia sonchifolia* (Asteraceae); YI DIAN HONG; Sowthistle Tasselflower. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Infection of upper respiratory tract, oral ulcer, pneumonia, mastitis, enteritis, bacillary dysentery, urinary tract infection, swollen welling abscess, sore and boil, eczema, knocks and falls. Isolated compounds: 11807, 19731, 19901.
- T2358 *Enantia polycarpa* DUO GUO YI NAN MU. Isolated compounds: 4100, 4101.
- T2359 *Endarachne binghamiae* (Scytosiphonaceae); E CHANG CAI;

- Goose-bowel Vegetable\*. Used part: frond. TCM Effects: To clear heat and resolve phlegm, soften hardness and dissipate binds. TCM Indications: Thyroid enlargement, lymphnroditis, tuberculosis. Isolated compounds: 14229.
- T2360 *Engelhardia roxburghiana* (Juglandaceae); HUANG QI II; R oxburgh Engelhardtia Root. Isolated compounds: 6801, 6836, 10186, 10460, 10747, 13873, 13978, 13979, 15137, 16050, 18588, 19983.
- T2361 *Enhydra fluctuans* (Asteraceae); ZHAO JU; Common Enhydra. Isolated compounds: 6802.
- T2362 *Enkianthus nudipes* (Ericaceae). Isolated compounds: 15864.
- T2363 *Entada phaseoloides* [Syn. *Lens phaseoloides*] (Fabaceae); KE TENG ZI; Climbing Entada Seed. Used part: seed. TCM Effects: To move *qi* and relieve pain, disinherit damp and disperse swelling. TCM Indications: Hematochezia, blood dysentery, jaundice, prolapse of rectum, hemorrhoids, throat impediment. Isolated compounds: 6811, 17050.
- T2364 *Entandrophragma cylindricum*. Isolated compounds: 19315.
- T2365 *Enteromorpha clathrata* (Ulvaaceae); TIAO HU TAI. Used part: frond. TCM Effects: To soften hardness and dissipate binds, transform phlegm and disperse accumulation, resolve toxin and disperse swelling. TCM Indications: Goiter and carcinoma of neck, scrofula, swollen welling abscess, sore and boil, food accumulation, worm accumulation, distention and oppression in stomach duct and abdomen, nosebleed(epistaxis). Isolated compounds: 9384.
- T2366 *Ephedra distachya* (Ephedraceae); SHUANG SUI MA HUANG; Jointfir Ephedra. Isolated compounds: 6815, 6816, 14395, 15745, 15789, 18024.
- T2367 *Ephedra equisetina* (Ephedraceae); MU ZEI MA HUANG; Mongolian Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 3633, 3695, 3766, 4135, 5763, 6815, 6816, 9818, 13419, 14395, 14629, 14701, 15745, 15789, 16285, 18024.
- T2368 *Ephedra Gerardiana* (Ephedraceae); SHAN LING MA HUANG; Gerard Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 6816, 14395, 14701, 15745, 15789, 18024.
- T2369 *Ephedra intermedia* (Ephedraceae); ZHONG MA HUANG; Intermediate Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 6815, 6816, 14395, 14701, 15660, 15665, 15745, 15789, 18024.
- T2370 *Ephedra intermedia* var. *tibetica* (Ephedraceae); XI ZANG ZHONG MA HUANG; Tibet Intermediate Ephedra. Isolated compounds: 6815, 14395, 14701, 15745, 15789, 18024.
- T2371 *Ephedra lepidosperma* (Ephedraceae); BAN ZI MA HUANG; Scalysed Ephedra. Isolated compounds: 6815, 15745, 15789, 18024.
- T2372 *Ephedra likiangensis* (Ephedraceae); LI JIANG MA HUANG; Likiang Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 14395, 14701, 15745, 15789, 18024.
- T2373 *Ephedra minuta* (Ephedraceae); AI MA HUANG; Small Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6816.
- T2374 *Ephedra minuta* var. *dioeca* (Ephedraceae); YI ZHU AI MA HUANG; Dioecious Small Ephedra. Isolated compounds: 6815, 14395, 14701, 15745, 15789, 18024.
- T2375 *Ephedra monosperma* (Ephedraceae); DAN ZI MA HUANG; Oneseed Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 14395, 15745, 15789, 18024.
- T2376 *Ephedra procera* (Ephedraceae); SHU ZHUANG MA HUANG; Tall Ephedra. Isolated compounds: 6815, 15745, 15789, 18024.
- T2377 *Ephedra przewalskii* (Ephedraceae); MO GUO MA HUANG; Przewalsk Ephedra. Isolated compounds: 6815, 14395, 15745, 15789, 18024.
- T2378 *Ephedra regeliana* (Ephedraceae); XI ZI MA HUANG; Regel Ephedra. Isolated compounds: 6815, 15745, 15789, 18024.
- T2379 *Ephedra saxatilis* (Ephedraceae); ZANG MA HUANG; Cliff Ephedra. Used part: herbaceous twigs. TCM Effects: See *Ephedra sinica*. TCM Indications: See *Ephedra sinica*. Isolated compounds: 6815, 14395, 14701, 15745, 15789, 18024.
- T2380 *Ephedra sinica* (Ephedraceae); MA HUANG; Chinese Ephedra. Equivalent plant: *Ephedra equisetina*, *Ephedra intermedia*, *Ephedra minuta*, *Ephedra monosperma*, *Ephedra likiangensis*, *Ephedra saxatilis*, *Ephedra Gerardiana*. Used part: herbaceous twigs. TCM Effects: To effuse sweat and resolve exterior, diffuse lung and calm asthma, disinherit water and disperse edema. TCM Indications: Wind-cold exterior repletion syndrome, headache without sweating, headache and generalized pain, cough, fever, fever and aversion to wind, absence of sweating, congesting lung, non-diffusion of lung *qi*, cough and asthma, bronchial asthma, wind water edema, nasal congestion, allergic rhinitis, inhibited urination, wind-damp impediment pain, muscle numbness, wind papule itching, *yin* flat abscess and phlegm node. Isolated compounds: 1476, 1498, 3633, 6396, 6815, 6816, 8744, 9421, 12020, 12082, 12717, 13543, 13947, 14395, 14701, 15146, 15745, 15789, 17083, 18024, 20993, 20994, 20995, 21541, 21950, 21973.
- T2381 *Ephedra sinica* (Ephedraceae); MA HUANG GEN; Chinese Ephedra Root. Used part: root. TCM Effects: To check sweating. TCM Indications: Spontaneous sweating and night sweating. Isolated compounds: 6822, 13400, 13401, 13402.
- T2382 *Ephedra* sp. (Ephedraceae). Isolated compounds: 6813, 6814, 15789.
- T2383 *Ephedra tweediana* (Ephedraceae). Isolated compounds: 6815, 15745, 15789, 18024.
- T2384 *Epicauta gorhami* (Meloidae); GE SHANG TING CHANG; Bean Blister Beetle. Used part: body. TCM Effects: To expel stasis and break accumulation. TCM Indications: Amenorrhoea, concretion and conglomeration, accumulation-gathering, fistula. Isolated compounds: 3094.
- T2385 *Epicoccum* sp. Isolated compounds: 258, 8012, 10376, 10377, 10495, 21808.
- T2386 *Epigynum auritum* (Apocynaceae); SI MAO TENG; Longeared Epigynum. Used part: root cortex and bark. TCM Effects: To strengthen sinews and lumbus. Isolated compounds: 6925.
- T2387 *Epilobium hirsutum* (Onagraceae); SHUI JIE GU DAN; Hairy Willowweed. Used part: whole herb. TCM Effects: To clear heat and

- resolve toxin, disinhibit damp and check diarrhea, disperse food and rectify *qi*, quicken blood and joint bones. TCM Indications: Damp-heat dysentery, food accumulation, distending pain in stomach duct, toothache, menstrual disorder, amenorrhea, vaginal discharge, fracture due to knocks and falls, swelling of sores, scalds, scab sore. Isolated compounds: 8095, 13937.
- T2388 *Epilobium* sp. (Onagraceae). Isolated compounds: 16836.
- T2389 *Epimedium acuminatum* (Berberidaceae); CU MAO YIN YANG HUO; Acuminatum Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 593, 1273, 1275, 2139, 5257, 6492, 6493, 6961, 10963, 21589.
- T2390 *Epimedium brevicornum* (Berberidaceae); YIN YANG HUO; Shorthorned Epimedium. Equivalent plant: *Epimedium sagittatum*, *Epimedium wushanense*, *Epimedium koreanum*, *Epimedium pubescens*, *Epimedium acuminatum*, *Epimedium davidii*, *Epimedium sutchuenense*. Used part: aerial parts. TCM Effects: To supplement kidney and invigorate *yang*, strengthen sinews and bones, dispel wind-damp. TCM Indications: Angina pectoris, chronic bronchitis, neurasthenia, climacteric hypertension, poliomyelitis, impotence and emission, limp wilting sinew and bone, wind-damp impediment pain, hypertonicity and numbness. Isolated compounds: 1275, 2138, 2139, 2377, 2601, 5257, 6492, 6959, 6960, 6961, 6962, 6963, 6964, 9363, 9486, 10887, 10964, 12018, 12893, 13374, 15410, 20280, 22740, 22908, 22909, 22910, 22911, 22912.
- T2391 *Epimedium brevicornum* (Berberidaceae); YIN YANG HUO GEN; Shorthorned Epimedium Root. Used part: root. TCM Effects: To supplement kidney and invigorate *yang*, dispel wind and eliminate damp. TCM Indications: Vacuity strangury, white turbidity, dizziness (for men), vaginal discharge, menstrual disorder, asthma (for women). Isolated compounds: 5257.
- T2392 *Epimedium davidii* (Berberidaceae); CHUAN DIAN YIN YANG HUO; David Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1273, 1275, 2138, 2139, 2140, 2140, 2141, 2141, 2142, 2143, 2144, 6961.
- T2393 *Epimedium ecalcaratum* (Berberidaceae); WU JU YIN YANG HUO; Spurless Barrenwort\*. Isolated compounds: 1275.
- T2394 *Epimedium elongatum* (Berberidaceae); CHUAN XI YIN YANG HUO; Elongate Barrenwort. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1275.
- T2395 *Epimedium fargesii* (Berberidaceae); CHUAN E YIN YANG HUO; Farges Epimedium. Isolated compounds: 1275, 5257, 6492, 6960, 6961.
- T2396 *Epimedium grandiflorum* (Berberidaceae); DA HUA YIN YANG HUO; Large-flowered Epimedium. Isolated compounds: 1275, 10944, 10955.
- T2397 *Epimedium grandiflorum* var. *thumbergianum* (Berberidaceae); DA HUA YIN YANG HUO BIAN ZHONG; Large-flowered Epimedium Variety. Isolated compounds: 2276.
- T2398 *Epimedium koreanum* (Berberidaceae); CHAO XIAN YIN YANG HUO; Korean Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1273, 1275, 2138, 2139, 3480, 3551, 6776, 6959, 6960, 6961, 8401, 10602, 10887, 10942, 10964, 11439, 12272, 12273, 12274, 12908, 18741, 18742, 21589, 22239.
- T2399 *Epimedium leptorrhizum* (Berberidaceae); QIAN LING YIN YANG HUO; Thin-rhizome Epimedium. Isolated compounds: 6961.
- T2400 *Epimedium myrianthum* (Berberidaceae); TIAN PING SHAN YIN YANG HUO; Tianpingshan Epimedium\*. Isolated compounds: 6961.
- T2401 *Epimedium pubescens* (Berberidaceae); ROU MAO YIN YANG HUO; Pubescence Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1275, 2138, 2139, 2141, 6960, 6961, 10964, 18961.
- T2402 *Epimedium sagittatum* (Berberidaceae); JIAN YE YIN YANG HUO; Sagittate Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1275, 2138, 2139, 3435, 6960, 6961, 10940, 10941, 10945, 10946, 10947, 10950, 10951, 10952, 10954, 10955, 10956, 10964, 12891, 16088, 17085, 18317, 19125, 19126, 19127.
- T2403 *Epimedium* spp. (Berberidaceae). Isolated compounds: 6960.
- T2404 *Epimedium sutchuenense* (Berberidaceae); SI CHUAN YIN YANG HUO; Szechuan Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1275.
- T2405 *Epimedium wanshanense* (Berberidaceae); WAN SHAN YIN YANG HUO; Wanshan Epimedium. Isolated compounds: 1273, 1274, 6492, 6493, 10963.
- T2406 *Epimedium wushanense* (Berberidaceae); WU SHAN YIN YANG HUO; Wushan Epimedium. Used part: aerial parts. TCM Effects: See *Epimedium brevicornum*. TCM Indications: See *Epimedium brevicornum*. Isolated compounds: 1273, 1275, 2138, 6960, 6961, 10964, 17835, 18961, 22740.
- Epimeredi indica* = *Anisomeles indica*
- T2407 *Equisetum arvense* (Equisetaceae); WEN JING; Bottle-brush. Used part: aerial parts. TCM Effects: To stanch bleeding, disinhibit urine, brighten eyes. TCM Indications: Spontaneous external bleeding, blood ejection, hemoptysis, hematochezia, flooding and spotting, bleeding due to external injury, red eyes and eye screen. Isolated compounds: 7222, 8120, 8966, 11238, 11642, 12043, 14081, 15527, 15933, 16098, 17974, 21538, 21539.
- T2408 *Equisetum hiemale* (Equisetaceae); MU ZEI; Common Scouring Rush. Used part: aerial parts. TCM Effects: To dissipate wind-heat, eliminate screen. TCM Indications: Wind-heat red eye, tearing in wind, eye screen. Isolated compounds: 2316, 2887, 6408, 7768, 8962, 8966, 9422, 9815, 9817, 9818, 11238, 11642, 12020, 12042, 12043, 12087, 13884, 13885, 14471, 14802, 16574, 18317, 20444, 22336.
- T2409 *Equisetum palustre* (Equisetaceae); GU JIE CAO; Marsh Horsetail. Used part: whole herb. TCM Effects: To soothe wind and brighten eyes, quicken blood and relieve pain. TCM Indications: Red eyes and eye screen, tearing in wind, wind-damp pain, knocks and falls. Isolated compounds: 552, 553, 12043, 12083, 15527, 16573, 18391.
- T2410 *Equisetum pratense* (Equisetaceae); CAO WEN JING; Meadow Horsetail. Used part: whole herb. TCM Effects: To quicken blood,

- disinhibit urine, expel worms. TCM Indications: Atherosclerosis, pain of hot urine and inhibited urination, intestinal parasitic disease. Isolated compounds: 12043, 18391.
- T2411 *Equisetum* sp. (Equisetaceae). Isolated compounds: 18815.
- T2412 *Equisetum sylvaticum* (Equisetaceae); LIN WEN JING; Forest Horsetail. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, clear heat and disinhibit urine, dispel wind and relieve pain. TCM Indications: Hemoptysis, hematuria, strangury, pain wind, wind-damp pain, epilepsy. Isolated compounds: 11642, 12043, 18392.
- T2413 *Eremocitrus* sp. Isolated compounds: 17705.
- T2414 *Eremurus himalaicus* (Liliaceae); XI MA DU WEI CAO; Himalayan Desertcandle. Isolated compounds: 9646.
- T2415 *Erica arborea* (Ericaceae); OU SHI NAN; Tree Heath. Isolated compounds: 16169.
- T2416 *Erica australis* (Ericaceae); NAN FANG OU SHI NAN; Spanish Heath. Isolated compounds: 5763, 19912.
- T2417 *Erica cinerea* (Ericaceae); HUI SE OU SHI NAN; Bell Heather. Isolated compounds: 11428.
- T2418 *Erica umbellata* (Ericaceae); SAN XING OU SHI NAN; Umbels Heath. Isolated compounds: 16169.
- T2419 *Erica vagans* (Ericaceae); YING GUO OU SHI NAN; Cornish Heath. Isolated compounds: 663.
- T2420 *Ericerus pela* (Coccidae); CHONG BAI LA; Cera Chinensis Wax. Used part: insect wax. TCM Effects: To stanch bleeding, engender flesh, settle pain. TCM Indications: Incised wound and bleeding, hematuria, hematochezia, enduring sores. Isolated compounds: 3434, 3436, 3437, 3438, 9372, 9373, 13708, 15937.
- T2421 *Erigeron annuus* (Asteraceae); YI NIAN PENG; Annual Fleabane. Used part: root and whole herb. TCM Effects: To disperse food and check diarrhea, clear heat and resolve toxin, interrupt malaria. TCM Indications: Indigestion, gastroenteritis, malaria, poisonous snake bite. Isolated compounds: 1493, 1494, 1762, 2802, 5888, 5889, 5892, 7096, 7256, 7504, 7504, 7505, 7505, 7506, 8335, 8692, 9871, 10109, 10246, 13925, 13974, 14048, 16155, 16156, 18271, 21107.
- T2422 *Erigeron breviscapus* (Asteraceae); DENG ZHAN XI XIN; Shortscape Fleabane. Used part: whole herb. TCM Effects: To dissipate cold and resolve exterior, dispel wind and eliminate damp, quicken network vessels and relieve pain, disperse accumulation. TCM Indications: Common cold with headache and nasal congestion, wind-damp impediment pain, paralysis, acute gastritis, child *gan* accumulation, knocks and falls. Isolated compounds: 1493, 2606, 2919, 3318, 10802, 14292, 18254, 19587, 21735.
- T2423 *Erigeron multiradiatus* (Asteraceae); DUO SHE FEI PENG; Multiradiate. Isolated compounds: 1495, 2900.
- T2424 *Erigeron philadelphicus* (Asteraceae); FEI CHENG FEI PENG; Philadelphia Fleabane. Isolated compounds: 7097, 7255, 7256, 7257, 7258, 7504, 17142.
- T2425 *Erigeron* sp. (Asteraceae). Isolated compounds: 6193.
- T2426 *Erigeron sumatrensis* (Asteraceae); SU MEN BAI JIU CAO. Used part: whole herb. TCM Effects: To transform phlegm, free network vessels, stanch bleeding. TCM Indications: Cough and abundant phlegm, wind-damp impediment pain, uterine bleeding. Isolated compounds: 1762, 7096, 7256, 7504, 8335, 10246, 13925, 13974, 16155, 16156.
- T2427 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus* (Erinaceidae); WEI NAO; Hedgehog Brain. Used part: brain. TCM Indications: Wolf-fistula. Isolated compounds: 653, 9069, 15708.
- T2428 *Erinaceus europaeus*; *Hemiechinus dauuricus*; *Hemiechinus auritus* (Erinaceidae); WEI XIN GAN; Hedgehog Heart and Liver. Used part: heart and liver. TCM Effects: To resolve toxin and cure sores. TCM Indications: Ant-fistula, bee-fistula, scrofula, malign sore. Isolated compounds: 653, 15708.
- T2429 *Erinus alpinus*. Isolated compounds: 7266.
- T2430 *Eriobotrya deflexa* (Rosaceae); TAI WAN PI PA; Taiwan Loquat. Isolated compounds: 1734, 6070, 7657, 10580, 16410, 18695, 18696, 21824, 21831.
- T2431 *Eriobotrya japonica* (Rosaceae); PI PA; Loquat. Used part: fruit. TCM Effects: To moisten lung and precipitate *qi*, allay thirst. TCM Indications: Lung heat cough asthma, vomiting of sour matter, vexation and thirst. Isolated compounds: 1102, 3048, 7729, 7734, 15498, 15500, 17264.
- T2432 *Eriobotrya japonica* (Rosaceae); PI PA HE; Loquat Seed. Used part: seed. TCM Effects: To relieve cough and transform phlegm, soothe liver and move *qi*. TCM Indications: Cough with profuse phlegm, mounting *qi*, edema, scrofula. Isolated compounds: 1102, 7657, 9717, 10518, 10519, 14390.
- T2433 *Eriobotrya japonica* (Rosaceae); PI PA YE; Loquat Leaf. Used part: leaf. TCM Effects: To clear lung and relieve cough, downbear counterflow and check vomiting. TCM Indications: Lung heat cough, *qi* counterflow with rapid asthma, stomach heat vomiting, heat vexation and thirst. Isolated compounds: 1102, 2849, 2857, 3771, 6178, 6632, 7287, 7288, 7729, 7730, 7734, 7772, 7785, 9522, 9524, 12039, 12040, 12853, 14579, 15501, 15502, 15503, 15504, 17376, 17377, 18918, 19983, 22270, 22270, 22616, 22617.
- T2434 *Eriocaulon buergerianum* (Eriocaulaceae); GU JING CAO; Pipewart. Used part: flower head with peduncle. TCM Effects: To dispel wind and dissipate heat, brighten eyes and eliminate eye screens. TCM Indications: Distended red eyes and screen, delacrimation and photophobia, night blindness, headache, deep-source nasal congestion, throat impediment, toothache, wind papule itching. Isolated compounds: 9565, 14362.
- T2435 *Eriocher sinensis* (Grapsidae); XIE KE; Mitten Crab Chelae. Used part: shell. TCM Effects: To stanch bleeding and dissipate stasis, resolve toxin and disperse swelling. TCM Indications: Blood amassment yellowing, blood stasis, flooding and spotting, swelling toxin of welling abscess and sore, galloping *gan* of teeth and gum, poisonous insect stings. Isolated compounds: 402.
- T2436 *Eriosema kraussianum* (Fabaceae); NAN FEI JI TOU SHU; South-African Eriosema\*. Isolated compounds: 12291, 12292, 12293, 12294, 12295.
- T2437 *Eriosorus flexuosus*. Isolated compounds: 18154.
- T2438 *Erodium stephanianum* (Geraniaceae); MANG NIU ER MIAO; Common Heron's Bill. Used part: aerial parts. TCM Effects: See *Geranium wilfordii*. TCM Indications: See *Geranium wilfordii*. Isolated compounds: 8312, 18317.
- T2439 *Eruca sativa* (Brassicaceae); ZHI MA CAI; Roquette. Used part: seed. TCM Effects: To precipitate *qi* and move water, dispel phlegm and

- settle asthma. TCM Indications: Cough and asthma with abundant phlegm, edema, ascites. Isolated compounds: 8595, 18394, 18397, 18404.
- T2440 *Ervatamia coronaria* (Apocynaceae); GUAN ZHUANG GOU YA HUA; Coronary Ervatamia\*. Isolated compounds: 4080.
- T2441 *Ervatamia dichotoma* (Apocynaceae); ER QI GOU YA HUA; Dichotomous Ervatamia\*. Isolated compounds: 4080.
- T2442 *Ervatamia divaricata* (Apocynaceae); DAN BAN GOU YA HUA; Divaricate Ervatamia. Used part: root, leaf. TCM Effects: To clear heat and lower blood pressure, resolve toxin and disperse swelling. TCM Indications: Hypertension, swelling pain in throat, sore toxin of welling abscess and flat abscess, knocks and falls. Isolated compounds: 4080, 7292, 7293.
- T2443 *Ervatamia hainanensis* (Apocynaceae); HAI NAN GOU YA HUA; Heyne Ervatamia\*. Isolated compounds: 22602.
- T2444 *Ervatamia heyneana* (Apocynaceae); HAI SHI GOU YA HUA; Medicinal Ervatamia. Used part: root. TCM Effects: To clear heat and lower blood pressure, disperse swelling and relieve pain. TCM Indications: Hypertension, swelling pain in throat, abdominal pain. Isolated compounds: 13864.
- T2445 *Ervatamia officinalis* (Apocynaceae); YAO YONG GOU YA HUA; Officinal Ervatamia\*. Used part: root. TCM Effects: To clear heat, lower blood pressure, disperse swelling and relieve pain. TCM Indications: Swelling pain in throat, hypertension, abdominal pain. Isolated compounds: 6885, 6893.
- T2446 *Ervatamia orientalis* (Apocynaceae); DONG FANG GOU YA HUA; Oriental Ervatamia\*. Isolated compounds: 20575.
- T2447 *Erycibe elliptilimba* (Convolvulaceae); AO MAI DING GONG TENG; Elliptical Erycibe. Used part: root and stem. TCM Effects: To dispel wind and relieve pain. Isolated compounds: 7299.
- T2448 *Erycibe expansa* (Convolvulaceae); GUANG BU DING GONG TENG; Expanse Erycibe\*. Isolated compounds: 993, 3004, 5235, 5834, 6290, 7300, 7301, 7302, 8278, 10007, 10009, 13281, 13638, 14638, 16209, 18103, 21918, 22667.
- T2449 *Erycibe obtusifolia* (Convolvulaceae); DING GONG TENG; Obtuseleaf Erycibe. Equivalent plant: *Erycibe schmidtii*. Used part: rattan. TCM Effects: To expel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-damp impediment pain, hemiplegia, painful swelling from knocks and falls. Isolated compounds: 7298, 19542, 19545.
- T2450 *Erycibe schmidtii* (Convolvulaceae); GUANG YE DING GONG TENG; Glabrousleaf Erycibe. Used part: rattan. TCM Effects: See *Erycibe obtusifolia*. TCM Indications: See *Erycibe obtusifolia*. Isolated compounds: 3551, 9486, 19542, 19545.
- T2451 *Eryngium campestre* TIAN YE CI QIN. Isolated compounds: 8724, 8725.
- T2452 *Erysimum cheiranthoides* (Brassicaceae); GUI ZHU TANG JIE; Treacle Erysimum. Used part: whole herb. TCM Effects: To strengthen heart and disinhibit urine, harmonize stomach and disperse food. TCM Indications: Cardiac failure, palpitation, edema, spleen-stomach disharmony, non-digestion of food accumulation. Isolated compounds: 956, 3495, 3496, 3497, 4036, 7296, 7297, 7303, 7320, 7321, 9335, 9336, 20397.
- T2453 *Erysimum crepidifolium* (Brassicaceae); HUAN YANG SHEN YE TANG JIE; Crepinleaf Erysimum\*. Isolated compounds: 7303, 9335.
- T2454 *Erysimum diffusum* (Brassicaceae); TANG JIE; Diffuse Erysimum. Used part: seed. TCM Effects: To constrain lung and relieve cough. TCM Indications: Vacuity taxation cough. Isolated compounds: 7320, 9335.
- T2455 *Erysimum ochroleucum* (Brassicaceae); HUANG BAI TANG JIE; Yellowish Erysimum\*. Isolated compounds: 9335.
- T2456 *Erysimum perofskianum* (Brassicaceae); A FU HAN TANG JIE; Afghanistan Erysimum\*. Isolated compounds: 7323, 8596.
- T2457 *Erythrina abyssinica* (Fabaceae); A BI XI NI YA CI TONG; Abyssinia Coralbean\*. Isolated compounds: 50, 52, 53, 54, 55, 3852, 4243, 5146, 5833, 7304, 7325, 7329, 9598, 10398, 12751, 17827, 19883, 19885, 19886, 19887, 19888.
- T2458 *Erythrina americana* (Fabaceae); MEI ZHOU CI TONG; American Coralbean\*. Isolated compounds: 7340, 7341.
- T2459 *Erythrina arborescens* (Fabaceae); QIAO MU CI TONG; Himalayan Coralbean. Equivalent plant: *Erythrina variegata*. Used part: dried bark or root cortex. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, kill worms and relieve itch. TCM Indications: Wind-damp impediment pain, hypertonicity in limb joints, knocks and falls, scab and lichen, eczema. Isolated compounds: 7322, 7325, 7328.
- T2460 *Erythrina berteroaana* (Fabaceae); BO SHI CI TONG; Bertero Coralbean\*. Isolated compounds: 17833, 19886.
- T2461 *Erythrina burttii* (Fabaceae); KEN NI YA CI TONG; Kenya Coralbean\*. Isolated compounds: 55, 2770, 2771, 2772, 2773, 2774, 14568.
- T2462 *Erythrina caribea* (Fabaceae); JIA LE BI CI TONG; Caribbean Coralbean\*. Isolated compounds: 7324, 7331.
- T2463 *Erythrina crysragalli* (Fabaceae); JI GUAN CI TONG; Folkers Coralbean\*. Isolated compounds: 7308.
- T2464 *Erythrina eriotriocha* (Fabaceae). Isolated compounds: 17837.
- T2465 *Erythrina folkersii* (Fabaceae); FU KE CI TONG; Folk Coralbean\*. Isolated compounds: 7325, 7328.
- T2466 *Erythrina glauca* (Fabaceae); HUI CI TONG; Grey Coralbean\*. Isolated compounds: 7326, 14206, 19251.  
*Erythrina indica* = *Erythrina variegata*
- T2467 *Erythrina latissima* (Fabaceae); JI KUAN CI TONG; Extreme-wide Coralbean\*. Isolated compounds: 51, 3004, 4243, 4604, 7305, 7306, 7307, 8278, 15342, 17048.
- T2468 *Erythrina lithosperma* (Fabaceae); YING HE CI TONG; Hardhilum Coralbean\*. Isolated compounds: 7325.
- T2469 *Erythrina lysistemon* (Fabaceae); AI JI ZAI PEI CI TONG; Egypt Cultivate Coralbean\*. Isolated compounds: 11415, 11711, 13265.
- T2470 *Erythrina melanacantha* (Fabaceae); HEI CI CI TONG; Blackstick Coralbean\*. Isolated compounds: 7324, 7331.
- T2471 *Erythrina poeppigiana* (Fabaceae); SHAN DI CI TONG; Mountain Immortelle. Isolated compounds: 2771, 2772, 4243, 7309, 7310, 7311, 7312, 7313, 7314, 7315, 7316.
- T2472 *Erythrina saclexii* (Fabaceae). Isolated compounds: 5586, 19108.
- T2473 *Erythrina salviiflora* (Fabaceae); SHU WEI CAO HUA CI TONG; Salviaflower Coralbean\*. Isolated compounds: 7325, 7328.

- T2474 *Erythrina senegalensis* (Fabaceae); SAI NEI JIA ER CI TONG; Senegal Coralbean\*. Isolated compounds: 5544, 7318, 7319, 17837, 22637.
- T2475 *Erythrina sigmoidea* (Fabaceae); AI SI XING CI TONG; S-shape Coralbean\*. Isolated compounds: 19883, 19885, 19887, 19888.
- T2476 *Erythrina* spp. (Fabaceae). Isolated compounds: 17047.
- T2477 *Erythrina suberosa* (Fabaceae); SHUAN ZHUANG CI TONG; Suberose Coralbean\*. Isolated compounds: 7327.
- T2478 *Erythrina variegata* [Syn. *Erythrina indica*] (Fabaceae); CI TONG; Coral-tree. Used part: dried bark or root cortex. TCM Effects: See *Erythrina arborescens*. TCM Indications: See *Erythrina arborescens*. Isolated compounds: 993, 5849, 5850, 5971, 6313, 7317, 7325, 7328, 7332, 7350, 7351, 7352, 7353, 11015, 11016, 16249, 17832, 21716, 22667.
- T2479 *Erythrina variegata* var. *orientalis* (Fabaceae); HAI TONG PI; Oriental Variegated Coralbean Bark. Used part: bark. TCM Effects: To dispel wind-damp, move *qi*, disinhibit urine and disperse edema. TCM Indications: Wind-damp impediment, pain in lumbus and knees, scab sore, lichen, eczema. Isolated compounds: 7330.
- T2480 *Erythrina vogelii* (Fabaceae). Isolated compounds: 1956, 2014, 3217, 5544, 6496, 17823, 17837, 22603, 22604, 22605, 22637.
- T2481 *Erythrina zeyheri* (Fabaceae). Isolated compounds: 7354, 7355, 7356, 7357, 7358.
- T2482 *Erythrophleum africanum* (Fabaceae); FEI ZHOU GE MU; African Erythrophleum. Isolated compounds: 7342.
- T2483 *Erythrophleum chlorostachyum* (Fabaceae); LU SUI GE MU; Greenspike Erythrophleum\*. Isolated compounds: 265, 15746.
- T2484 *Erythrophleum couminga* (Fabaceae); KAO MING GE MU; Couminga Erythrophleum\*. Isolated compounds: 4191, 4192, 7342, 7343.
- T2485 *Erythrophleum guineense* (Fabaceae); JI NEI YA GE MU; Red-water Tree. Isolated compounds: 3277, 3278, 7342, 7343, 7344.
- T2486 *Erythrophleum ivorense* (Fabaceae); XIANG YA HAI AN GE MU; Ivory Coast Erythrophleum. Isolated compounds: 3277, 3278, 7342, 7343.
- T2487 *Erythrophleum suaveolens* (Fabaceae); YE XIANG GE MU; Fragrant Erythrophleum. Isolated compounds: 3277, 7342, 7343.
- T2488 *Erythroxylum alaternifolium* (Erythroxylaceae). Isolated compounds: 5385.
- T2489 *Erythroxylum rotundifolium* (Erythroxylaceae); YUAN XING YE GU KE; Roundleaf Coca Shrub\*. Isolated compounds: 21903.
- T2490 *Erythroxylum cambodianum* (Erythroxylaceae); JIAN PU ZHAI GU KE; Cambodia Coca Shrub\*. Isolated compounds: 3308, 3771, 6853, 7345, 7346, 13644, 19087.
- T2491 *Erythroxylum coca* (Erythroxylaceae); GU KE; Coca Shrub. Isolated compounds: 3695, 3860, 4417, 6683, 8311.
- T2492 *Erythroxylum novogranatense* (Erythroxylaceae); BI LU GU KE; Peru Coca Shrub. Isolated compounds: 3860, 22321.
- T2493 *Erythroxylum zeylanicum* (Erythroxylaceae); XI LAN GU KE; Ceylon Coca Shrub\*. Isolated compounds: 142, 3718, 7347, 7348, 7349, 21896.
- T2494 *Escallonia* sp. (Saxifragaceae). Isolated compounds: 1892, 3600, 8081.
- T2495 *Eschscholzia californica* (Papaveraceae); HUA LING CAO; California Poppy. Used part: flower, fruit. TCM Effects: To settle pain, clear heat. Isolated compounds: 1358, 5708, 11665, 18386.
- T2496 *Eschscholzia lobbii* (Papaveraceae); LUO BO HUA LING CAO; Lobb Poppy\*. Isolated compounds: 4106.
- T2497 *Eschscholzia* spp. (Papaveraceae). Isolated compounds: 3498.
- T2498 *Esenbeckia yaaxhokob*. Isolated compounds: 7829, 8314, 20137.
- T2499 *Eskemukerjea megacarpum* (Polygonaceae); Bhote Khair. Isolated compounds: 21155, 21850.
- T2500 *Eucalyptus apodophylla* (Myrtaceae); WU BING YE AN; Non-stipe Eucalyptus\*. Isolated compounds: 1531, 11745.
- T2501 *Eucalyptus berghei* (Myrtaceae); BO SHI AN; Berghe Eucalyptus\*. Isolated compounds: 18867.
- T2502 *Eucalyptus camaldulensis* (Myrtaceae); CHI AN; Longbeak Eucalyptus. Used part: fruit. TCM Effects: To disperse accumulation and *gan*. TCM Indications: Child *gan* accumulation. Isolated compounds: 19087.
- T2503 *Eucalyptus camaldulensis* var. *obtusata* (Myrtaceae); DUN XING CHI AN YE; Obtuse Eucalyptus Leaf\*. Isolated compounds: 21789.
- T2504 *Eucalyptus camaldulensis* var. *pendula* (Myrtaceae); CHUI ZHI CHI AN YE; Pendulous Eucalyptus Leaf. Isolated compounds: 3023.
- T2505 *Eucalyptus citriodora* (Myrtaceae); NING MENG AN YE; Lemon Eucalyptus Leaf. Used part: leaf. TCM Effects: To dissipate wind and eliminate damp, fortify stomach and relieve pain, resolve toxin and relieve itch. TCM Indications: Wind-cold common cold, wind-damp bone pain, *qi* stagnation stomachache, food accumulation, sand distention and vomiting diarrhea, dysentery, asthma, malaria, sore and boil, wind papules, eczema, intractable lichen, burns and scalds. Isolated compounds: 1766, 1767, 3296, 3767, 3768, 6757, 7480, 8202, 8784, 11638, 18421, 18682.
- T2506 *Eucalyptus cladocalyx* (Myrtaceae); ZHI ZHUANG E AN. Isolated compounds: 3784, 7911, 15813.
- T2507 *Eucalyptus cypellocarpa* (Myrtaceae). Isolated compounds: 4570, 4571, 4572.
- T2508 *Eucalyptus dives* (Myrtaceae); FU AN; Dives Eucalyptus\*. Isolated compounds: 17456.
- T2509 *Eucalyptus globoidea* (Myrtaceae). Isolated compounds: 8554.
- T2510 *Eucalyptus globulus* (Myrtaceae); AN YE; Eucalyptus Leaf. Used part: leaf. TCM Effects: To soothe wind and resolve exterior, clear heat and resolve toxin, rectify *qi* and transform phlegm, kill worms and relieve itch. TCM Indications: Common cold, ardent fever with headache, lung heat cough asthma, pertussis, diarrhea, dysentery, ancylostomiasis, filariasis, wind-damp pain, swelling toxin of welling abscess and sore, eczema, scab and lichen, burns and scalds, bleeding due to external injury. Isolated compounds: 440, 441, 4354, 7480, 7481, 7527, 7528, 7529, 7530, 7531, 7532, 9021, 9044, 9620, 13315, 14337, 14338, 14339, 14343, 17402.
- T2511 *Eucalyptus grandis* (Myrtaceae); JU AN; Toolur. Isolated compounds: 5763, 8307.
- T2512 *Eucalyptus hemiphloia* (Myrtaceae); BAN PI AN; Hemihull Eucalyptus\*. Isolated compounds: 7512.
- T2513 *Eucalyptus kino* (Myrtaceae). Isolated compounds: 17174.
- T2514 *Eucalyptus maculata* (Myrtaceae); BAN WEN AN; Spotted Gum. Isolated compounds: 4135.
- T2515 *Eucalyptus phellandra* (Myrtaceae); SHUI HUI XIANG AN;



- Phellandral Eucalyptus\*. Isolated compounds: 17055.
- T2516 *Eucalyptus populnea* (Myrtaceae); YANG YE AN; Bimble Box. Isolated compounds: 18410.
- T2517 *Eucalyptus robusta* (Myrtaceae); DA YE AN YE; Swamp Mahogany Leaf. Used part: leaf. TCM Effects: To soothe wind and resolve exterior, relieve cough and dispel phlegm, clear heat and resolve toxin, kill worms and relieve itch. TCM Indications: Common cold, ardent fever with headache, lung heat cough asthma, abdominal pain and diarrhea, malaria, wind-damp impediment pain, filariasis, leptospirosis, swelling pain in throat, red eyes, eye screen, welling abscess of ear, erysipelas, swollen welling abscess, mammary welling abscess, measles papules, wind papules, eczema, scab and lichen, scalds. Isolated compounds: 7481, 8095, 18862, 18863, 18867, 18868.
- T2518 *Eucalyptus rostrata* (Myrtaceae); CHANG HUI AN; Long-rostrate Eucalyptus\*. Isolated compounds: 18323, 18361.
- T2519 *Eucalyptus* sp. (Myrtaceae). Isolated compounds: 1951, 7482, 17283.
- T2520 *Eucalyptus* spp. (Myrtaceae). Isolated compounds: 17054, 17454.
- T2521 *Eucalyptus tereticornis* (Myrtaceae); XI YE AN YE; Forest Gray Gum Leaf. Used part: leaf. TCM Effects: To diffuse lung and effuse exterior, rectify *qi* and quicken blood, resolve toxin and kill worms. TCM Indications: Common cold, cough, *qi* distention abdominal pain, diarrhea and dysentery, leptospirosis, knocks and falls, sores, erysipelas, mammary welling abscess, scab sore, lichen. Isolated compounds: 4354.
- T2522 *Eucalyptus viminalis* (Myrtaceae); DUO ZHI AN; Ribbon Gum. Isolated compounds: 3301, 3303, 20910.
- T2523 *Eucalyptus wandoo* (Myrtaceae); WO SHI AN; Wandoo Eucalyptus\*. Isolated compounds: 18643.
- T2524 *Eucharis amazonica* (Amaryllidaceae); YA MA XUN BAI HE; Amazon lily. Isolated compounds: 1532, 14049, 14687.
- T2525 *Eucheuma muricatum* (Solieriaceae); QI LIN CAI; Muriculate Eucheuma Frond. Used part: frond. TCM Effects: To clear heat and disperse phlegm. TCM Indications: Phlegm-heat cough, scrofula, goiter and tuberculosis, hemorrhoids. Isolated compounds: 1268.
- T2526 *Euchresta formosana* (Fabaceae); TAI WAN SHAN DOU GEN; Taiwan Euchresta. Isolated compounds: 7486, 7889, 7890, 7891, 7892.
- T2527 *Euchresta japonica* (Fabaceae); SAN XIAU YE SHAN DOU GEN; Trifoliate Euchresta. Isolated compounds: 6496, 20096, 22637.
- T2528 *Euchresta* spp. (Fabaceae). Isolated compounds: 16249.
- T2529 *Euchresta strigillosa* (Fabaceae); FU MAO SHAN DOU GEN; Hirsute Euchresta\*. Used part: root. TCM Effects: To rectify *qi* and relieve pain, clear heat and resolve toxin. TCM Indications: Stomachache, enteritis and diarrhea, abdominal distention, abdominal pain, swelling pain in throat. Isolated compounds: 16249, 20096.
- T2530 *Eucommia ulmoides* (Eucommiaceae); DU ZHONG; Eucommia. Used part: bark. TCM Effects: To lower blood pressure, supplement liver and kidney, strengthen sinews and bones, quiet fetus. TCM Indications: Hypertension, kidney vacuity lumbago, weakness in sinews and bones, stirring fetus in pregnancy. Isolated compounds: 85, 816, 2004, 2887, 3551, 3776, 3981, 4521, 4904, 5173, 5802, 5803, 6632, 7000, 7487, 7488, 7489, 7490, 8273, 8276, 8277, 9022, 9028, 9284, 10493, 10653, 10654, 10655, 11523, 12020, 12238, 12916, 13640, 13641, 14224, 15660, 16088, 16089, 16090, 16091, 17409, 17412, 17415, 18628, 19983, 20569, 20573, 20715, 21541, 22192, 22193, 22270.
- T2531 *Eucommia ulmoides* (Eucommiaceae); DU ZHONG YE; Eucommia Leaf. Used part: leaf. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, lower blood pressure. TCM Indications: Lumbar and back pain, limp aching inability of legs and knees, hypertension. Isolated compounds: 2004, 3551, 8277, 9953, 18317, 18628.  
*Eugenia caryophyllata* = *Syzygium aromaticum*
- T2532 *Eugenia edulis* (Myrtaceae); KE SHI FAN YING TAO; Edible Eugenia\*. Isolated compounds: 8960, 8961, 15186.
- T2533 *Eugenia jambolana* [Syn. *Syzygium cumini*; *Myrtus cumini*] (Myrtaceae); WU MO. Used part: leaf. TCM Effects: To resolve toxin, kill worms, relieve itch. TCM Indications: Dysentery, swelling of sores, eczema titillation. Isolated compounds: 13626, 13628, 15172.
- T2534 *Eugenia sandwicensis* (Myrtaceae); SAN WEI ZHI FAN YING TAO; Sandwich Eugenia\*. Isolated compounds: 4151, 4179, 4180, 8095.
- T2535 *Euglena gracilis* (Euglenaceae); XI XIAO LUO ZAO. Isolated compounds: 21046.
- T2536 *Euonymus alatus* (Celastraceae); GUI JIAN YU; Winged Euonymus. Used part: winged branchlet. TCM Effects: To regulate *qi* and relieve pain, break blood and free menstruation, resolve toxin and disperse swelling, kill worms. TCM Indications: Concretion and conglomeration, pain in heart and abdomen, amenorrhea, dysmenorrhea, postpartum stasis stagnation abdominal pain, retention of lochia, mounting *qi*, joint running impediment pain, swelling of sores, painful wound from knocks and falls, burns and scalds, poisonous snake bite. Isolated compounds: 6632, 6918, 7671, 16284, 22677.
- T2537 *Euonymus atropurpureus* (Celastraceae); ZI GUO WEI MAO; Eastern Wahoo. Isolated compounds: 6632.
- T2538 *Euonymus bungeanus* (Celastraceae); SI MIAN MU; Winterberry Euonymus. Used part: root, bark, fruit, or branchlet-leaf. TCM Effects: To expel wind and eliminate damp, quicken blood and free network vessels, resolve toxin and relieve pain. TCM Indications: Rheumatic arthritis, lumbago, wound swelling from knocks and falls, thromboangiitis obliterans (Buerger's disease), pulmonary welling abscess, spontaneous external bleeding, swelling toxin of clove sore. Isolated compounds: 27, 6632.
- T2539 *Euonymus europaeus* (Celastraceae); OU ZHOU WEI MAO; European Euonymus. Isolated compounds: 160, 1738, 2438, 5508.
- T2540 *Euonymus fortunei* (Celastraceae); FU FANG TENG; Fortune Euonymus. Used part: stem-leaf. TCM Effects: To boost kidney and strengthen lumbus, soothe sinews and quicken network vessels, stanch bleeding and disperse stasis. TCM Indications: Aching in lumbus and knees, kidney vacuity, hemiplegia, wind-damp impediment pain, infant fright wind, hemoptysis, flooding, blood ejection, menstrual disorder, prolapse of uterus, fracture due to knocks and falls, bleeding due to external injury. Isolated compounds: 6632, 7536, 7537, 7538.
- T2541 *Euonymus grandiflorus* (Celastraceae); YE DU ZHONG; Largeflower Euonymus. Used part: root or bark. TCM Effects: To dispel wind and eliminate damp, quicken blood and free menstruation, transform stasis and dissipate binds. TCM Indications: Lumbago, amenorrhea due to

- blood stasis, dysmenorrhea. Isolated compounds: 9568.
- T2542 *Euonymus japonicus* (Celastraceae); TIAO JING CAO; Evergreen Euonymus. Used part: root. TCM Effects: To quicken blood and regulate menstruation, dispel wind-damp. TCM Indications: Menstrual disorder, dysmenorrhea, wind-damp impediment pain. Isolated compounds: 6918, 7950, 11754, 12061, 18367.
- T2543 *Euonymus mupinensis* (Celastraceae); BAO XING WEI MAO; Paohsing Euonymus. Isolated compounds: 30, 15078, 20355, 22683.
- T2544 *Euonymus nanoides* (Celastraceae). Isolated compounds: 2254, 5344, 6327, 6328, 14164, 14168, 21031, 21640.
- T2545 *Euonymus phellomana* (Celastraceae); SHUAN CHI WEI MAO; Corkywing Euonymus. Used part: bark of branch. TCM Effects: To quicken blood and regulate menstruation, dissipate stasis and relieve pain. TCM Indications: Menstrual disorder, postpartum abdominal pain due to stasis obstruction, knocks and falls, wind-damp impediment pain. Isolated compounds: 7536, 7537, 7538.
- T2546 *Euonymus sacrosancta* (Asteraceae); MAO YE WEI MAO; Sacred Spindle-tree. Used part: branch with wing or root. TCM Effects: To free menstruation, disperse swelling, relieve pain, kill worms. TCM Indications: Concretion and conglomeration, chest impediment, amenorrhea, menstrual disorder, postpartum stasis stagnation abdominal pain, knocks and falls, swelling pain in joints, abdominal pain due to worm accumulation. Isolated compounds: 10887.
- T2547 *Euonymus sieboldianus* (Celastraceae); XI BO SHI WEI MAO; Seibo Euonymus\*. Isolated compounds: 7535.
- T2548 *Euonymus verrucosides* (Celastraceae); YOU DIAN WEI MAO; Verrucatespot Euonymus. Isolated compounds: 7536, 7537, 7538.
- T2549 *Eupatorium adenophorum* (Asteraceae); ZI JING ZE LAN HUA; Purplestem Eupatorium Flower. Isolated compounds: 7589.
- T2550 *Eupatorium altissimum* (Asteraceae); GAO ZE LAN; Tall Eupatorium. Isolated compounds: 7591, 18847.
- T2551 *Eupatorium aschenbornianum* (Asteraceae). Isolated compounds: 318, 319, 6797, 7382.
- T2552 *Eupatorium ayapana* (Asteraceae); A YA PAN ZE LAN; Ayapana Eupatorium\*. Isolated compounds: 2048, 9452.
- T2553 *Eupatorium azureum* (Asteraceae); TIAN LAN ZE LAN; Azure Eupatorium\*. Isolated compounds: 7950.
- T2554 *Eupatorium cannabinum* (Asteraceae); DA MA YE ZE LAN; Hemp-agrimony. Used part: whole herb. TCM Effects: To clear summerheat, repel foulness, transform damp. TCM Indications: Summerheat damage, fever and headache, damp evil brew, inappetence due to glomus in stomach duct, bitter taste and slimy tongue fur. Isolated compounds: 7557, 7593, 9570, 15515, 15681, 18847, 20488.
- T2555 *Eupatorium chinense* (Asteraceae); HUA ZE LAN; Chinese Eupatorium. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, course liver and quicken blood. TCM Indications: Wind-heat common cold, chest and rib-side pain, stomach duct pain and abdominal distention, knocks and falls, swollen welling abscess and sore toxin, snake bite. Isolated compounds: 2559, 2699, 7539, 7540, 7541, 7542, 7543, 7544, 7545, 7546, 7547, 7548, 7549, 7581, 9707, 10114, 10767, 14900, 15681, 16971, 16972.
- T2556 *Eupatorium compositifolium* (Asteraceae); FU YE ZE LAN; Compositeleaf Eupatorium\*. Isolated compounds: 13235.
- T2557 *Eupatorium cuneifolium* (Asteraceae); XIE YE ZE LAN; Cuneateleaf Eupatorium\*. Isolated compounds: 7553, 7554, 7555, 7556, 7584, 7585.
- T2558 *Eupatorium formosanum* (Asteraceae); TAI WAN ZE LAN; Taiwan Agrimony. Used part: aerial parts. TCM Effects: See *Eupatorium fortunei*. TCM Indications: See *Eupatorium fortunei*. Isolated compounds: 7558, 7559, 7586.
- T2559 *Eupatorium fortunei* (Asteraceae); PEI LAN; Fortune Eupatorium. Equivalent plant: *Eupatorium formosanum*. Used part: aerial parts. TCM Effects: To resolve summerheat and transform damp, repel foulness and harmonize center. TCM Indications: Nausea and vomiting, bad breath, drooling, distended head and oppression in chest, sweet-greasy in mouth, summerheat-damp exterior syndrome. Isolated compounds: 149, 153, 186, 219, 289, 4134, 4550, 4975, 5751, 7146, 7578, 7587, 7593, 9761, 10581, 11296, 11626, 13803, 13839, 13969, 13970, 13973, 14005, 14179, 15512, 15935, 20708, 21361, 21838.
- T2560 *Eupatorium glandulosum* (Asteraceae); XIAN ZE LAN; Glandulous Eupatorium\*. Isolated compounds: 6796.  
*Eupatorium glehni* = *Eupatorium sachalinense*
- T2561 *Eupatorium gracile* (Asteraceae); XI ZE LAN; Gracile Eupatorium\*. Isolated compounds: 19791.
- T2562 *Eupatorium hyssopifolium* (Asteraceae); SHEN XIANG CAO YE ZE LAN; Hyssop-leaved Boneset. Isolated compounds: 7566.
- T2563 *Eupatorium japonicum* (Asteraceae); CHENG GAN CAO; Japanese Eupatorium. Used part: whole herb. TCM Effects: To dispel summerheat and effuse exterior, transform damp and harmonize center, rectify *qi* and quicken blood, resolve toxin. TCM Indications: Fever and headache, oppression in chest and abdomen distention, indigestion, gastroenteritis, common cold, cough, pharyngolaryngitis, tonsillitis, menstrual disorder, knocks and falls, swollen welling abscess, snake bite. Isolated compounds: 2559, 7621, 15681, 20707, 20708.
- T2564 *Eupatorium lancifolium* (Asteraceae); ZHEN YE ZE LAN; Lanceleaf Eupatorium\*. Isolated compounds: 7553.
- T2565 *Eupatorium lindleyanum* (Asteraceae); CHENG GAN SHENG MA; Lindley Eupatorium. Used part: whole herb. TCM Effects: To clear lung and relieve cough, transform phlegm and calm asthma, lower blood pressure. TCM Indications: Bronchitis, cough and asthma with abundant phlegm, hypertension. Isolated compounds: 4738, 7539, 7542, 7544, 7567, 7568, 7569, 7570, 7571, 7572, 7573, 7574, 7575, 7576, 7578, 9291, 10114, 10766, 10887, 18317, 21367, 21380.
- T2566 *Eupatorium mikanioides* (Asteraceae); WEI GAN JU ZE LAN; Mikanioid Eupatorium\*. Isolated compounds: 4739.
- T2567 *Eupatorium odoratum* (Asteraceae); FEI JI CAO; Fragrant Eupatorium. Used part: whole herb. TCM Effects: To stanch bleeding, kill worms. TCM Indications: Terrene leech bite. Isolated compounds: 1284, 4140, 11691, 15993.
- T2568 *Eupatorium quadrangularae* (Asteraceae); SI LENG ZE LAN; Four-arris Eupatorium\*. Isolated compounds: 18293.
- T2569 *Eupatorium rebaudianum* (Asteraceae); TIAN YE JU; Rebaud Eupatorium\*. Used part: leaf. TCM Effects: To engender liquid and allay thirst, lower blood pressure. TCM Indications: Diabetes mellitus, hypertension. Isolated compounds: 18561, 20341.

- T2570 *Eupatorium riparium* (Asteraceae); HE AN ZE LAN; Riparian Eupatorium, Riverside Eupatorium. Isolated compounds: 7592, 7950.
- T2571 *Eupatorium rotundifolium* (Asteraceae); YUAN YE ZE LAN; Roundleaf Eupatorium\*. Isolated compounds: 6913, 7550, 7551, 7552, 7579, 7580, 7594, 7595.
- T2572 *Eupatorium rugosum* (Asteraceae); ZHOU YE ZE LAN; Mist flower. Isolated compounds: 10775, 21507.
- T2573 *Eupatorium sachalinense* [Syn. *Eupatorium glehni*] (Asteraceae); KU YE DAO ZE LAN; Sachalin Eupatorium\*. Isolated compounds: 181, 7560, 7561, 7562, 7563, 7564, 7565, 7581, 7586, 7593, 9570, 9571, 9572.
- T2574 *Eupatorium semiserratum* (Asteraceae); BAN JU CHI ZHUANG ZE LAN; Semiserration Eupatorium\*. Isolated compounds: 4739, 7581, 7582, 7583, 7590, 7591.
- T2575 *Eupatorium serotinum* (Asteraceae); WAN HUA ZE LAN; Late-flower Boneset. Isolated compounds: 20488.
- T2576 *Eupatorium stoechadosmum* (Asteraceae); DUO XU GONG; Lavender-gustatory Eupatorium\*. Isolated compounds: 20488.
- T2577 *Eupatorium subhastatum* (Asteraceae); JIN JI ZE LAN; Halberd-like Eupatorium\*. Isolated compounds: 7278, 7556.
- T2578 *Eupatorium tinifolium* (Asteraceae); SI MIAN MAO JIA MI YE ZE LAN; Tinileaf Eupatorium\*. Isolated compounds: 12172.
- T2579 *Eupatorium urticaefolium* (Asteraceae); QIAN MA YE ZE LAN; White Snakeroot. Isolated compounds: 4976, 10775, 21507.
- T2580 *Euphorbia antiquorum* (Euphorbiaceae); HUO YANG LE; Ancients Euphorbia. Used part: stem. TCM Effects: To disinhibit urine and free stool, draw out toxin and remove putrid, kill worms and relieve itch. TCM Indications: Edema, ascites, diarrhea, dysentery, food accumulation, lump glomus, clove sore, welling abscess and flat abscess, scab and lichen. Isolated compounds: 537, 1113, 1463, 1464, 4468, 4472, 4473, 6918, 7611, 7618, 7950, 7996, 11451, 12619, 20712.
- T2581 *Euphorbia chamaesyce* (Euphorbiaceae); MAO GUO DI JIN; Groundfig Spurge. Isolated compounds: 16362.
- T2582 *Euphorbia characias* (Euphorbiaceae); DI ZHONG HAI DA JI; Mediterranean Euphorbia; Mediterranean Spurge. Isolated compounds: 7596, 7597, 7598, 7599, 7600, 7601, 7602, 7603, 7604, 7605, 7606, 7607.
- T2583 *Euphorbia decipiens* (Euphorbiaceae); MI HUO DA JI. Isolated compounds: 15215, 15216, 15217.
- T2584 *Euphorbia ebracteolata* (Euphorbiaceae); YUE XIAN DA JI; Ebracteolate Euphorbia. Equivalent plant: *Euphorbia fischeriana*. Used part: root. TCM Effects: To break accumulation, kill worms, draw out toxin, eliminate putridity, eliminate damp, relieve itch. TCM Indications: Concretion and conglomeration, scrofula, tuberculosis, welling abscess and flat abscess, flowing phlegm, scab sore, intractable lichen, chronic cough and asthma, scrotal damp itch. Isolated compounds: 2442, 5988, 5989, 6667, 6668, 6669, 6670, 6671.
- T2585 *Euphorbia esula* (Euphorbiaceae); JI CHANG LANG DU; Leafy Euphorbia. Used part: root. TCM Effects: To disinhibit water, disperse swelling, kill worms, attack gastrointestinal accumulation. TCM Indications: Edema, ascites, scrofula, itchy skin. Isolated compounds: 11057, 11058, 12065, 14352, 22042, 22044.
- T2586 *Euphorbia esula* var. *cyparissoides* (Euphorbiaceae); XI YE DA JI; Narrowleaf Euphorbia. Used part: whole herb. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Swelling of sores. Isolated compounds: 1113, 7611, 8786, 14352.
- T2587 *Euphorbia fischeriana* (Euphorbiaceae); LANG DU DA JI; Fischer Euphorbia. Used part: root. TCM Effects: See *Euphorbia ebracteolata*. TCM Indications: See *Euphorbia ebracteolata*. Isolated compounds: 245, 12480, 17958.
- T2588 *Euphorbia fortissima* (Euphorbiaceae); NONG DA JI; Dense Euphorbia\*. Isolated compounds: 6521.
- T2589 *Euphorbia helioscopia* (Euphorbiaceae); ZE QI; Sun Euphorbia. Used part: whole herb. TCM Effects: To disinhibit water and disperse edema, relieve cough and transform phlegm, resolve toxin and kill worms. TCM Indications: Edema and *qi* fullness, phlegm-rheum cough asthma, malaria, bacillary dysentery, scrofula, tuberculous fistula, medullitis. Isolated compounds: 5616, 5764, 7608, 7609, 7610, 7619, 7620, 9307, 9308, 9309, 9310, 9311, 9312, 9313, 9315, 10624, 13612, 15935, 18203, 18338.
- T2590 *Euphorbia hirta* (Euphorbiaceae); DA FEI YANG CAO; Garden Euphorbia. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, percolate damp and relieve itch, free milk. TCM Indications: Acute enteritis, bacillary dysentery, strangury, hematuria, pulmonary welling abscess, mammary welling abscess, clove sore, toxin swelling, eczema, foot lichen, itchy skin. Isolated compounds: 1113, 6757, 7951.
- T2591 *Euphorbia humifusa* (Euphorbiaceae); DI JIN CAO; Humifusa Euphorbia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Dysentery, enteritis, hemoptysis, hematuria, hematochezia, flooding and spotting, swollen welling abscess, sore and boil. Isolated compounds: 8095, 11083, 11084, 11085, 12049, 18317, 19542, 22195.
- T2592 *Euphorbia hyberna* (Euphorbiaceae); HAI BO NA DA JI; Hyberna Euphorbia. Isolated compounds: 5287, 21513, 21530.
- T2593 *Euphorbia ingens* (Euphorbiaceae); JU DA JI; Enormous Euphorbia. Isolated compounds: 11063.
- T2594 *Euphorbia jolkini* (Euphorbiaceae); NAN DA JI; Jolkin Euphorbia. Isolated compounds: 11892, 11893, 14454.
- T2595 *Euphorbia kamerunica* (Euphorbiaceae). Isolated compounds: 11063.
- T2596 *Euphorbia kansui* (Euphorbiaceae); GAN SUI; Kansui Euphorbia. Used part: tuberoid. TCM Effects: To drain water and expel rheum, break accumulation and free stool. TCM Indications: Edema, ascites, flowing rheum in chest, concretion conglomeration accumulation and gathering, epilepsy, cough and asthma, urinary and fecal stoppage. Isolated compounds: 2238, 2239, 2442, 4820, 4821, 4822, 4823, 4824, 4825, 4826, 4827, 4828, 4829, 4838, 6323, 6324, 6325, 6326, 6939, 7611, 7612, 7618, 12129, 12130, 12131, 12137, 12138, 12139, 12140, 12141, 12142, 12143, 12144, 12145, 12146, 12147, 12148, 14301, 16365, 16448, 16449, 21409.
- T2597 *Euphorbia lathyris* (Euphorbiaceae); QIAN JIN ZI; Caper Euphorbia Seed. Used part: ripe seed without seed coat. TCM Effects: To expel water and disperse swelling, break blood and disperse concretion. TCM Indications: Edema, phlegm-rheum, accumulation and distention-fullness, urinary and fecal stoppage, amenorrhea due to

- blood stasis, intractable impediment, wart. Isolated compounds: 663, 664, 2331, 4645, 7615, 7617, 9489, 11059, 11060, 11422, 12543, 12544, 12545.
- T2598 *Euphorbia lathyris* (Euphorbiaceae); XU SUI ZI JING ZHONG BAI ZHI; Caper Euphorbia Latex. Used part: white juice in stem. TCM Effects: To eliminate macula and resolve toxin, close sores. TCM Indications: White patch wind, snake bite. Isolated compounds: 6558.
- T2599 *Euphorbia lunulata* (Euphorbiaceae); MAO YAN CAO; Crescent-shaped Euphorbia. Used part: whole herb. TCM Effects: To suppress cough and dispel phlegm, dissipate binds, expel water, draw out toxin, kill worms. TCM Indications: Phlegm-rheum cough asthma, edema, scrofula, scab and lichen, innominate toxin swelling. Isolated compounds: 663, 8095, 10887, 10888, 12020, 12082, 18317, 18339, 18411.
- T2600 *Euphorbia maculata* (Euphorbiaceae); BAN DI JIN; American Euphorbia. Isolated compounds: 18360.
- T2623 *Euphorbia makinoi* (Euphorbiaceae); HONG RU CAO; Red-milk Grass\*. Isolated compounds: 17754.
- T2601 *Euphorbia milii* (Euphorbiaceae); TIE HAI TANG; Crownofhorns Euphorbia. Used part: Stem-leaf and root. TCM Effects: To expel pus, resolve toxin, expel water, quicken blood. TCM Indications: Swelling toxin of welling abscess and sore, burns and scalds, knocks and falls, bubo, hepatitis, ascites ulcer. Isolated compounds: 14859, 14860, 14861.
- T2602 *Euphorbia nematocypha* (Euphorbiaceae); DA LANG DU; Large Euphorbia Root. Used part: root. TCM Effects: To transform stasis and stanch bleeding, kill worms and relieve itch. TCM Indications: Bleeding due to external injury, painful swelling from knocks and falls, scrofula, scab and lichen. Isolated compounds: 11893, 15330.
- T2603 *Euphorbia nivulia* (Euphorbiaceae); YIN DU DUO ZHI DA JI; Indian Juicy Euphorbia\*. Isolated compounds: 5325, 5326.
- T2604 *Euphorbia obtusifoli* (Euphorbiaceae); DUN YE DA JI XIANG JIANG; Obtuseleaf Euphorbia Latex\*. Isolated compounds: 9396.
- T2605 *Euphorbia obtusifolia* var. *obtusifolia* (Euphorbiaceae); DUN YE DA JI; Obtuseleaf Euphorbia\*. Isolated compounds: 154, 5202, 5476, 6892, 9395, 9396, 9397, 9398, 9399, 9400, 9401.
- T2606 *Euphorbia palustris* (Euphorbiaceae); ZHAO SHENG DA JI; Marshy Euphorbia\*. Isolated compounds: 15170.
- T2607 *Euphorbia paralias* (Euphorbiaceae); HAI YANG DA JI; Sea Euphorbia\*. Isolated compounds: 11843, 11844, 11845, 11846, 11847, 16652, 16653, 19652, 19653, 19654, 19655, 19656, 19657.
- T2608 *Euphorbia pekinensis* (Euphorbiaceae); DA JI<sup>(3)</sup>; Peking Euphorbia. Used part: tuberoid. TCM Effects: To drain water and expel rheum, dissipate binds and disperse swelling. TCM Indications: Edema, seeper in chest and abdomen, phlegm-rheum, inhibited urine and stool, swollen welling abscess, scrofula. Isolated compounds: 6220, 11428, 15954.
- T2609 *Euphorbia peplus* (Euphorbiaceae); BO AI DA JI; Petty Euphorbia. Isolated compounds: 21032.
- T2610 *Euphorbia poisonii* (Euphorbiaceae); PO SEN DA JI; Poison Euphorbia\*. Isolated compounds: 3074, 18639, 21402.
- T2611 *Euphorbia portlandica* (Euphorbiaceae); BO TE LAN DA JI; Portlan Euphorbia\*. Isolated compounds: 4694, 6604, 7883, 13098, 15482, 17731, 17732, 21026, 22734.
- T2612 *Euphorbia prolifera* (Euphorbiaceae); TU GUA LANG DU; Proliferous Euphorbia\*. Used part: root. TCM Effects: To disinhibit urine, free stool, move *qi*, dissipate stasis, kill worms, resolve toxin. TCM Indications: Edema, constipation, food accumulation, stomachache, knocks and falls, fracture, scab and lichen, sore toxin. Isolated compounds: 373.
- T2613 *Euphorbia pubescens* (Euphorbiaceae); DUAN ROU MAO DA JI; Shortfluff Euphorbia\*. Isolated compounds: 874, 7613, 7614, 11890, 11891, 18170, 18171, 18172, 18173, 19542.
- T2614 *Euphorbia pulcherrima* (Euphorbiaceae); YI PIN HONG; Common Poinsettia. Used part: whole herb. TCM Effects: To regulate menstruation and stanch bleeding, quicken blood and settle pain. TCM Indications: Profuse menstruation, painful swelling from knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 12488.
- T2615 *Euphorbia quinquecostata* (Euphorbiaceae); WU ZHU MAI DA JI. Isolated compounds: 1385.
- T2616 *Euphorbia resinifera* (Euphorbiaceae); SHU ZHI DA JI; Resinoid Euphorbia\*. Isolated compounds: 18639, 18640.
- T2617 *Euphorbia royleana* (Euphorbiaceae); BA WANG BIAN; Royle Euphorbia Latex. Used part: stem-leaf or white juice in stem. TCM Effects: To dispel wind and resolve toxin, kill worms and relieve itch. TCM Indications: Sore toxin, skin lichen, edema. Isolated compounds: 4491, 6224, 7611, 7618, 8786, 8788.
- T2618 *Euphorbia* sp. (Euphorbiaceae). Isolated compounds: 8311.
- T2619 *Euphorbia* spp. (Euphorbiaceae). Isolated compounds: 13438, 17181.
- T2620 *Euphorbia stepposa* (Euphorbiaceae); CAO YUAN DA JI; Grassland Euphorbia\*. Isolated compounds: 15170.
- T2621 *Euphorbia stygiana* (Euphorbiaceae); YOU AN DI JIN; Stygian Euphorbia\*. Isolated compounds: 7954, 7955.
- T2622 *Euphorbia supina* (Euphorbiaceae); BAN YE DI JIN; Spottedleaf Euphorbia. Isolated compounds: 16362.
- T2624 *Euphorbia tirucalli* (Euphorbiaceae); LU YU SHU; Malabartree Euphorbia. Used part: whole herb. TCM Effects: To promote lactation, kill worms, resolve toxin. TCM Indications: Postpartum scant milk, lichen sore, swelling pain in joints. Isolated compounds: 7616, 15964.
- T2625 *Euphorbia turczaninowii* (Euphorbiaceae). Isolated compounds: 9474, 9475, 16818, 16819, 16820, 21027.
- T2626 *Euphorbia wallichii* (Euphorbiaceae); DA GUO DA JI; Largefruit Euphorbia\*. Isolated compounds: 1962, 3330, 5759, 5760, 9311, 9313, 9314, 9805, 11061, 11062, 11892.
- T2627 *Euphorbia longan* [Syn. *Dimocarpus longan*] (Sapindaceae); LONG YAN YE; Longan Leaf. Used part: leaf. TCM Effects: To effuse exterior and clear heat, resolve toxin, dry damp. TCM Indications: Common cold, malaria, swelling of clove, hemorrhoids, eczema. Isolated compounds: 6918, 17220, 17869, 18411, 18624, 20369, 21540.
- T2628 *Euphorbia officinalis* (Euphorbiaceae); XIAO MI CAO; Meadow Eyebright. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Febrile diseases thirst, headache, lung heat cough, swelling pain in throat, heat strangury, inhibited urination, mouth sore, swollen welling abscess. Isolated

- compounds: 2004.
- T2629 *Euphrasia regelii* (Euphorbiaceae); DUAN XIAN XIAO MI CAO; Regel Eyebright. Isolated compounds: 7533.
- T2630 *Euptelea polyandra* (Eupteleaceae= Trochodendraceae); DUO XIONG RUI LING CHUN MU; Polyandrous Euptelea\*. Isolated compounds: 7622, 7623, 7624, 7625, 7626, 7627, 7628, 7629, 7630, 7631, 7632, 7633, 7634, 7635.
- T2631 *Eurya japonica* (Theaceae); LING MU; Japanese Eurya. Used part: leaf or fruit. TCM Effects: To dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-damp impediment pain, ascites, fever and dry mouth, swelling of sores, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 3594, 18615.
- T2632 *Euryale ferox* (Nymphaeaceae); QIAN SHI GEN; Gordon Euryale Root. Used part: root. TCM Effects: To dissipate binds and relieve pain, check discharge. TCM Indications: Mounting *qi*, leukorrhea, innominate toxin swelling. Isolated compounds: 14240.
- T2633 *Eurycoma harmandiana* (Staphyleaceae). Isolated compounds: 773, 3097, 3098, 3299, 6215, 8510, 9885, 9890, 10934, 10935, 10936, 13867, 13871, 16695.
- T2634 *Eurycoma longifolia* (Staphyleaceae); CHANG YE KUAN MU. Isolated compounds: 421, 3096, 3097, 3098, 3158, 3159, 4938, 4986, 5941, 6215, 6888, 7652, 9563, 9884, 9885, 9887, 10290, 10390, 10391, 10477, 10503, 12334, 12964, 12965, 13669, 13866, 13867, 13868, 13869, 13871, 15598, 15599, 16892, 17304, 17309.
- T2635 *Eurycoma* sp. (Staphyleaceae). Isolated compounds: 378, 381, 389, 420, 421, 2571, 4740, 4986, 5334, 5609, 5610, 5611, 5681, 5893, 5941, 5960, 6214, 6252, 6253, 7011, 7638, 7639, 7640, 7641, 7642, 7643, 7644, 7645, 7646, 7647, 7648, 7649, 7650, 7651, 7653, 7654, 7655, 7943, 9884, 9886, 9887, 9890, 9999, 10021, 10115, 10116, 10192, 10290, 10390, 10391, 10392, 10393, 10477, 10503, 10788, 12521, 12575, 12576, 12964, 13866, 13868, 13869, 13871, 14006, 14007, 16693, 16694, 16695, 16696, 16892, 17480, 20031, 20033, 20035, 20039, 20568, 20572, 20574, 21230, 21759.
- T2636 *Euscaphis japonica* (Staphyleaceae); YE YA CHUN; Common Euscaphis. Used part: fruit or seed. TCM Effects: To dispel wind and dissipate cold, move *qi* and relieve pain, dissipate binds and disperse swelling. TCM Indications: Stomachache, cold mounting with abdominal pain, diarrhea, dysentery, prolapse of rectum, menstrual disorder, prolapse of uterus, painful swollen testes. Isolated compounds: 1935, 6056, 7659, 14314.
- T2637 *Evernia prunastri* LI BIAN ZHI YI. Isolated compounds: 18779.
- T2638 *Evodia austrosinensis* (Rutaceae); HUA NAN WU ZHU YU; South China Evodia. Isolated compounds: 2022, 2023, 4034, 5691, 7665, 10117, 10943.
- T2639 *Evodia baberi* (Rutaceae); YI HUA WU ZHU YU. Isolated compounds: 7665, 19081.
- T2640 *Evodia belaha* (Rutaceae). Isolated compounds: 17033.
- T2641 *Evodia leptia* [Syn. *Ilex leptia*] (Rutaceae); SAN CHA KU; Thin Evodia. Used part: leaf. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp. TCM Indications: Swelling pain in throat, malaria, icterohepatitis, wind-damp bone pain, eczema, dermatitis, sores. Isolated compounds: 7456, 11606, 12670, 12673, 14551, 18830.
- T2642 *Evodia madagascariensis* (Rutaceae); MA DAO CHOU TAN; Madagascar Evodia\*. Isolated compounds: 20978.
- T2643 *Evodia meliifolia* (Rutaceae); LIAN YE WU ZHU YU; Dyebark Evodia. Used part: fruit. TCM Effects: To warm center and dissipate cold, move *qi* and relieve pain. TCM Indications: Pain in stomach duct and abdomen, vomiting, headache. Isolated compounds: 15882.
- T2644 *Evodia rutaecarpa* (Rutaceae); WU ZHU YU; Medicinal Evodia. Equivalent plant: *Evodia rutaecarpa* var. *officinalis*. Used part: fruit. TCM Effects: To dispel cold, dry damp, soothe liver, precipitate *qi*, relieve pain, check vomiting. TCM Indications: Dysentery, cold pain in stomach duct and abdomen, reverting *yin* headache, mounting *qi*, dysmenorrhea, beriberi with edema, hyperchlorhydria, cold-damp diarrhea. Isolated compounds: 114, 179, 180, 1600, 4912, 6308, 6370, 6691, 7663, 7664, 7665, 7666, 7667, 7668, 7669, 7902, 8512, 8956, 8957, 8958, 8991, 10117, 10118, 10325, 11816, 12843, 14135, 14143, 14331, 14624, 14654, 14657, 14658, 14659, 14660, 14741, 14745, 14771, 14799, 14800, 14801, 15882, 15925, 19081, 19081, 19082, 20552, 21076, 21624, 21625.
- T2645 *Evodia rutaecarpa* var. *bodinieri* (Rutaceae); BO SHI WU ZHU YU; Guizhou Evodia. Isolated compounds: 7665, 19081.
- T2646 *Evodia rutaecarpa* var. *officinalis* (Rutaceae); SHI HU<sup>(3)</sup>; Official Evodia. Used part: fruit. TCM Effects: See *Evodia rutaecarpa*. TCM Indications: See *Evodia rutaecarpa*. Isolated compounds: 7665, 19081, 19801.
- T2647 *Evodia* sp. (Rutaceae). Isolated compounds: 12254.
- T2648 *Evodia* spp. (Rutaceae). Isolated compounds: 12847.
- T2649 *Evolvulus alsinoides* (Convolvulaceae); TU DING GUI; Common Evolvulus. Used part: whole herb. TCM Effects: To clear heat, disinhibit damp, resolve toxin. TCM Indications: Jaundice, dysentery, strangury-turbidity, vaginal discharge, clove sore, scab sore. Isolated compounds: 2318, 13686.
- T2650 *Excoecaria agallocha* (Euphorbiaceae); HAI QI; Bling-your-eye-tree. Used part: whole herb. TCM Effects: To drain precipitation, attack toxin. TCM Indications: Replete body and constipation, skin intractable ulcer, swelling toxin of limbs. Isolated compounds: 134, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 5491, 7685, 7686, 7687, 7688, 7689, 7690, 7691, 7692, 9852, 10080, 10299, 10562, 11241, 12173, 12404, 16326, 20986.
- T2651 *Excoecaria cochinchinensis* var. *viridis* (Euphorbiaceae); LU BEI GUI HUA. Used part: leaf. TCM Effects: To kill worms and relieve itch. TCM Indications: Psoriasis, chronic eczema. Isolated compounds: 1935, 7693, 7694, 8095, 8566, 9818, 12082, 19805, 21634.

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- T2652 *Fabiana imbricata* (Solanaceae); PI QI QIE; Peru False Heath. Isolated compounds: 1596.
- T2653 *Fagara* sp. (Rutaceae). Isolated compounds: 19777, 22774.
- T2654 *Fagara* spp. (Rutaceae). Isolated compounds: 3498.
- T2655 *Fagara vitiensis* (Rutaceae); FEI JI AI JIAO; Fiji Fagara\*. Isolated compounds: 18057.
- T2656 *Fagara xanthoxyloides* (Rutaceae). Isolated compounds: 113, 2761, 2762, 2763, 4422, 5578, 7701, 7702, 7704, 10474, 11269, 11284, 13098, 14182, 19777.

- T2657 *Fagopyrum cymosum* [Syn. *Polygonum cymosum*] (Polygonaceae); TIAN QIAO MAI GEN; Golden Buckwheat Root. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse welling abscess, dispel wind and eliminate damp. TCM Indications: Swelling pain in throat, sores, scrofula, hepatitis, pulmonary welling abscess, aching sinews and bones, head wind, stomachache, bacillary dysentery, Vaginal discharge. Isolated compounds: 9818, 14371, 17869, 17896, 18411, 19087, 19794, 20444.
- T2658 *Fagopyrum esculentum* (Polygonaceae); QIAO MAI; Common Buckwheat. Used part: seed. TCM Effects: To fortify spleen and disperse accumulation, precipitate *qi* and loosen intestines, resolve toxin and close sores. TCM Indications: Gastrointestinal accumulation, diarrhea, dysentery, intestine gripping sand, white turbidity, vaginal discharge, spontaneous sweating, night sweating, zoster, erysipelas, effusion of back from welling abscess and flat abscess, scrofula, burns and scalds. Isolated compounds: 2347, 9834, 19087, 19186, 19188.
- T2659 *Fagopyrum esculentum* (Polygonaceae); QIAO MAI JIE; Common Buckwheat Stem. Used part: stem-leaf. TCM Effects: To precipitate *qi* and disperse accumulation, clear heat and resolve toxin, stanch bleeding, lower blood pressure. TCM Indications: Dysphagia-occlusion, indigestion, dysentery, vaginal discharge, swollen welling abscess, scalds, hemoptysis, purpura, hypertension. Isolated compounds: 9616, 16196, 19087.
- T2660 *Fagopyrum* spp. (Polygonaceae). Isolated compounds: 5763.
- T2661 *Fagopyrum tataricum* (Polygonaceae); KU QIAO MAI; Tartarian Buckwheat. Isolated compounds: 19087.
- T2662 *Fagus sylvatica* (Fagaceae); OU ZHOU SHUI QING GANG; European Beech. Isolated compounds: 4439, 20556.
- T2663 family Amaryllidaceae spp. (Amaryllidaceae). Isolated compounds: 9186, 9612, 9646, 17573.
- T2664 family Apiaceae spp. (Apiaceae). Isolated compounds: 13137, 18317.
- T2665 family Apocynaceae spp. (Apocynaceae). Isolated compounds: 12020, 20577, 22596, 22602.
- T2666 family Asteraceae spp. (Asteraceae). Isolated compounds: 13137, 17719, 19194, 20016, 20387, 21034, 21207, 21208, 21328, 21329, 21486, 21487, 22401.
- T2667 family Berberidaceae spp. (Berberidaceae). Isolated compounds: 16555.
- T2668 family Brassicaceae spp. (Brassicaceae). Isolated compounds: 6812, 12020, 17117.
- T2669 family Cactaceae spp. (Cactaceae). Isolated compounds: 9646, 19513.
- T2670 family Cistaceae spp. (Cistaceae). Isolated compounds: 13137.
- T2671 family Dilleniaceae spp. (Dilleniaceae). Isolated compounds: 12020.
- T2672 family Euphorbiaceae spp. (Euphorbiaceae). Isolated compounds: 13137, 20235.
- T2673 family Fabaceae spp. (Fabaceae). Isolated compounds: 7883, 9646, 12020, 13137, 18652.
- T2674 family Fumariaceae spp. (Fumariaceae). Isolated compounds: 3498.
- T2675 family Hydrophyllaceae spp. (Hydrophyllaceae). Isolated compounds: 22142.
- T2676 family Liliaceae spp. (Liliaceae). Isolated compounds: 9339.
- T2677 family Meliaceae spp. (Meliaceae). Isolated compounds: 21553.
- T2678 family Menispermaceae spp. (Menispermaceae). Isolated compounds: 21389.
- T2679 family Papaveraceae spp. (Papaveraceae). Isolated compounds: 3498.
- T2680 family Passifloraceae spp. (Passifloraceae). Isolated compounds: 13137.
- T2681 family Poaceae spp. (Poaceae). Isolated compounds: 9646.
- T2682 family Polygonaceae spp. (Polygonaceae). Isolated compounds: 10887.
- T2683 family Pyrolaceae spp. (Pyrolaceae). Isolated compounds: 17476.
- T2684 family Ranunculaceae spp. (Ranunculaceae). Isolated compounds: 1179, 12020.
- T2685 family Resedaceae spp. (Resedaceae). Isolated compounds: 13137.
- T2686 family Rutaceae spp. (Rutaceae). Isolated compounds: 3498, 20135.
- T2687 family Sapindaceae spp. (Sapindaceae). Isolated compounds: 3498.
- T2688 family Scrophulariaceae spp. (Scrophulariaceae). Isolated compounds: 13137.
- T2689 family Simarubaceae spp. (Simarubaceae). Isolated compounds: 19221, 20108.
- T2690 family Thymelaeaceae spp. (Thymelaeaceae). Isolated compounds: 17374, 20550.
- T2691 *Farfugium japonicum* (Asteraceae); LIAN PENG CAO; Japanese Farfugium. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, dissipate binds and disperse swelling. TCM Indications: Common cold, swelling pain in throat, cough and hemoptysis, hematochezia, hematuria, menstrual disorder, mastitis, scrofula, swelling toxin of welling abscess and boil, clove sore and eczema, knocks and falls, snake bite. Isolated compounds: 7717, 7718, 8017, 10133, 10406, 19731.
- T2692 *Fatsia* spp. (Araliaceae). Isolated compounds: 12642.
- T2693 *Feijoa sellowiana* (Myrtaceae); FEI YUE GUO; Pineapple Guava. Isolated compounds: 3303, 8813, 20910, 21983.
- T2694 *Ferula alliacea* (Apiaceae). Isolated compounds: 17077.
- T2695 *Ferula assafoetida* (Apiaceae); A WEI; Asafetida Giantfennel Resin. Used part: balsam. TCM Effects: To transform concretion and disperse accumulation, kill worms, interrupt malaria. TCM Indications: Concretion and conglomeration, lump glomus, worm accumulation, meat-type food accumulation, cold pain in heart and abdomen, malaria, dysentery. Isolated compounds: 1909, 1910, 1911, 2096, 3969, 3970, 7731, 7732, 7733, 7768, 8087, 9085, 12127, 14763, 15517, 17620, 19224, 22228.
- T2696 *Ferula badrakema* (Apiaceae). Isolated compounds: 2096.
- T2697 *Ferula borealis* (Apiaceae); SHA QIAN HU; Bunge Giantfennel. Used part: root. TCM Effects: To clear heat and resolve exterior, dispel phlegm and suppress cough. TCM Indications: Common cold, fever, headache, pneumonia, trachitis, chest oppression with cough asthma, tonsillitis, scrofula. Isolated compounds: 6479.
- T2698 *Ferula ferulaeoides* (Apiaceae); DUO SAN A WEI; Manyumbell Giantfennel. Used part: root. Isolated compounds: 5626, 5627, 5628, 5629, 5630, 5631, 5632, 5633, 5666, 5667, 5668, 5669.
- T2699 *Ferula ferulago* (Apiaceae). Isolated compounds: 7765, 7766.
- T2700 *Ferula foetida* (Apiaceae); CHOU A WEI; Foetid Giantfennel\*. Isolated compounds: 7707, 7768, 7845, 7846, 7847, 7848, 7849, 7850, 19080.
- T2701 *Ferula fukanensis* (Apiaceae); FU KANG A WEI GEN; Fukang Giantfennel Root. Isolated compounds: 5633, 5669, 7982, 7983, 7984,

- 7985.
- T2702 *Ferula kopetdaghensis* (Apiaceae). Isolated compounds: 17079.
- T2703 *Ferula kuhistanica* (Apiaceae); YI LANG A WEI; Iran Giantfennel\*. Isolated compounds: 6179, 6180, 7098, 7152, 7791, 7792, 7792, 9829, 11811, 11811, 12310, 12311, 12312, 12313, 12314, 12315, 12316, 12317, 12318, 12319, 12320, 12321, 12322, 12323, 12324, 12325, 12326, 12470, 12470, 12471, 12509, 21744, 22331.
- T2704 *Ferula persica* var. *latisecta* (Apiaceae); BO SI A WEI BIAN ZHONG; Persia Giantfennel Variety\*. Isolated compounds: 2800, 2801.
- T2705 *Ferula polyantha* (Apiaceae); DUO HUA A WEI; Manyflower Giantfennel\*. Isolated compounds: 17620.
- T2706 *Ferula pseudooreoselinum* (Apiaceae). Isolated compounds: 19225.
- T2707 *Ferula sinaica* (Apiaceae). Isolated compounds: 5890, 12469.
- T2708 *Ferula* sp. (Apiaceae). Isolated compounds: 22552.
- T2709 *Ferula* spp. (Apiaceae). Isolated compounds: 22195.
- T2710 *Ferula xeromorpha* (Apiaceae). Isolated compounds: 22785.
- T2711 *Ferulago brachyloba* (Apiaceae); LEI A WEI. Isolated compounds: 10658.
- T2712 *Ferulago capillaries* (Apiaceae); JU MAO LEI A WEI. Isolated compounds: 2308, 5080, 10658, 13571, 19709, 19710, 19711.
- T2713 *Ferulago nodosa* (Apiaceae); JIE JIE LEI A WEI; Node Ferulago\*<sup>]</sup> Isolated compounds: 15939.
- T2714 *Fibraurea chloroleuca* (Menispermaceae); LV BAI TIAN XIAN TENG; Chloro-white Fibraurea\*. Isolated compounds: 2304.
- T2715 *Fibraurea recisa* (Menispermaceae); TIAN XIAN TENG; Common Fibraurea. Used part: root, stem or leaf. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Acute tonsillitis, pharyngolaryngitis, infection of upper respiratory tract, conjunctivitis, jaundice, gastroenteritis, dysentery, child indigestion, food poisoning, salpingitis, acute endometritis, chronic endometritis, acute pelvic inflammation, vaginitis, sore and boil, burns and scalds. Isolated compounds: 11851, 16555.
- T2716 *Ficus beecheyana* [Syn. *Ficus erecta* var. *beecheyana*] (Moraceae); TIAN XIAN GUO; Erect Fig. Used part: fruit. TCM Effects: To clear heat and engender liquid, fortify spleen and promote digestion, resolve toxin and disperse swelling. TCM Indications: Enteritis, dysentery, constipation, hemorrhoids, throat pain, swelling abscess and sores, scab and lichen. Isolated compounds: 2424, 2425, 2463, 2464, 2465, 5907, 10037, 10180.
- T2717 *Ficus carica* (Moraceae); WU HUA GUO; Fig. Used part: fruit. TCM Effects: To clear heat and engender liquid, fortify spleen and promote digestion, resolve toxin and disperse swelling. TCM Indications: Swelling pain in throat, dry cough with hoarseness, scant breast milk, intestinal heat and constipation, inappetence, indigestion, diarrhea, dysentery, swollen swelling abscess, lichen. Isolated compounds: 671, 672, 673, 674, 2309, 4525, 7996, 11031, 13098, 14104, 14537, 18086, 18276, 18421.
- T2718 *Ficus carica* (Moraceae); WU HUA GUO YE; Fig Leaf. Used part: leaf. TCM Effects: To clear damp heat, resolve sore toxin, disperse swelling and relieve pain. TCM Indications: Damp-heat diarrhea, vaginal discharge, hemorrhoids, pain from swollen swelling abscess, scrofula. Isolated compounds: 1113, 9021, 13098.  
*Ficus erecta* var. *beecheyana* = *Ficus beecheyana*
- T2719 *Ficus fistulosa* [Syn. *Ficus harlandii*] (Moraceae); SHUI TONG MU; Harland Fig. Used part: root cortex, leaf. TCM Effects: To clear heat and disinhibit damp, quicken blood and relieve pain. TCM Indications: Damp-heat inhibited urination, diarrhea, painful swelling from knocks and falls. Isolated compounds: 446, 529.  
*Ficus harlandii* = *Ficus fistulosa*
- T2720 *Ficus hispida* (Moraceae); DUI YE RONG; Oppositeleaf Fig. Used part: root, bark or stem-leaf. TCM Effects: To course wind and clear heat, disperse accumulation and transform phlegm, fortify spleen and eliminate damp, move *qi* and dissipate stasis. TCM Indications: Common cold with fever, conjunctivitis, bronchitis, indigestion, dysentery, spleen vacuity and vaginal discharge, breast milk stoppage, painful swelling from knocks and falls, wind-damp impediment pain. Isolated compounds: 9562, 12716, 21543, 21921.
- T2721 *Ficus microcarpa* (Moraceae); RONG SHU; Smallfruit Fig. Used part: aerial root. TCM Effects: To dissipate wind-heat, dispel wind-damp, quicken blood and relieve pain. TCM Indications: Influenza, pertussis, non-eruption of measles, tonsillitis, conjunctivitis, wind-damp bone pain, sand *qi* abdominal pain, enduring dysentery, stomachache, leukorrhea, eczema, pudendal itch, knocks and falls. Isolated compounds: 174, 178, 183, 188, 189, 190, 197, 202, 203, 204, 211, 228, 249, 252, 267, 283, 332, 530, 2338, 6477, 15757, 15759, 16337, 16402, 21982, 22270, 22272.
- T2722 *Ficus nitida* (Moraceae); LIANG YE RONG; Bright Fig\*. Isolated compounds: 7950.
- T2723 *Ficus pumila* (Moraceae); BI LI; Climbing Fig. Used part: leafy stem. TCM Effects: To dispel wind and disinhibit damp, quicken blood and free network vessels, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, sciatica, diarrhea, urinary strangury, edema, malaria, amenorrhea, postpartum blood stasis abdominal pain, swelling pain in throat, testitis, lacquer sore, swelling toxin of swelling abscess and sore, knocks and falls. Isolated compounds: 1112, 20713.
- T2724 *Ficus racemosa* (Moraceae); JU GUO RONG; Racemose Fig\*. Isolated compounds: 18513.
- T2725 *Ficus ruficaulis* var. *antaoensis* (Moraceae); LAN YU LUO YE RONG. Isolated compounds: 5528, 8664, 8665, 8677, 8678, 11642, 19087.
- T2726 *Ficus septica* (Moraceae); FU YE RONG; Septic Fig\*. Isolated compounds: 22151.
- T2727 *Ficus simplicissima* (Moraceae); CU YE RONG; Hispid Fig. Used part: root. TCM Effects: To fortify spleen and supplement lung, move *qi* and disinhibit damp, soothe sinews and quicken network vessels. TCM Indications: Spleen vacuity edema, reduced food intake with fatigue, tuberculosis with cough, vaginal discharge, night sweating, postpartum scant milk, wind-damp impediment pain, edema, cirrhosis with ascites, hepatitis, knocks and falls. Isolated compounds: 4140, 18086.
- T2728 *Ficus* spp. (Moraceae). Isolated compounds: 13098.  
*Filifolium sibiricum* = *Tanacetum sibiricum*
- T2729 *Filipendula ulmaria* (Rosaceae); XUAN GUO WEN ZI CAO; Queen-of-the-Meadows. Used part: root and flower. TCM Effects: To calm liver and lower blood pressure, eliminate putridity and close sores. TCM Indications: Hypertension, sores with pus blood. Isolated

- compounds: 19057.
- T2730 *Fimbristylis dichotoma* (Cyperaceae); PIAO FU CAO; Dichotomous Fimbristylis. Used part: whole herb. TCM Effects: To disinhibit urine, clear heat and resolve toxin. TCM Indications: Inhibited urination, damp-heat edema, strangury, infant fetal toxin. Isolated compounds: 5579, 21063.
- T2731 *Firmiana simplex* (Sterculiaceae); WU TONG BAI PI; Phoenix Tree Bast. Used part: bast. TCM Effects: To lower cholesterol, clear heat and calm liver, dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Hyperlipemia, hypertension, wind-damp impediment pain, knocks and falls, menstrual disorder, hemorrhoids, erysipelas. Isolated compounds: 13097, 15935.
- T2732 *Firmiana simplex* (Sterculiaceae); WU TONG YE; Phoenix Tree Leaf. Used part: leaf. TCM Effects: To lower cholesterol, clear heat and calm liver, dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Hyperlipemia, hypertension, wind-damp pain, numbness and paralysis, swelling toxin of sore and welling abscess, hemorrhoids, shank sore, bleeding due to external injury, hypertension. Isolated compounds: 1112, 1113.
- T2733 *Firmiana simplex* (Sterculiaceae); WU TONG ZI; Phoenix Tree Seed. Used part: seed. TCM Effects: To lower cholesterol, clear heat and calm liver, normalize *qi*, harmonize stomach and disperse food. TCM Indications: Hyperlipemia, food damage, stomachache, mounting *qi*, infant mouth sore. Isolated compounds: 2318, 2892, 20328.
- T2734 *Fissistigma glaucescens* [Syn. *Melodorum glaucescens*] (Annonaceae); BAI YE GUA FU MU; Glaucescent Fissistigma. Used part: root. TCM Effects: To dispel wind-damp, free menstruation and quicken blood, stanch bleeding. TCM Indications: Wind-damp impediment pain, menstrual disorder, knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 12917, 15711.
- T2735 *Fissistigma oldhamii* [Syn. *Melodorum oldhamii*] (Annonaceae); GUA FU MU; Oldham Fissistigma. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, lumbago, stomachache, knocks and falls. Isolated compounds: 15711.
- T2736 *Fissistigma polyanthum* (Annonaceae); HEI FENG TENG; Manyflower Fissistigma. Used part: root and rattan. TCM Effects: To dispel wind-damp, strengthen sinews and bones, quicken blood and relieve pain, regulate menstruation. TCM Indications: Sequel of poliomyelitis, rheumatic arthritis, rheumatoid arthritis, painful swelling from knocks and falls, menstrual disorder. Isolated compounds: 7803.
- T2737 *Flemingia philippinensis* [Syn. *Moghania philippinensis*] (Fabaceae); MAN XING QIAN JIN BA; Philippine Flemingia. Used part: root. TCM Effects: To dispel wind and eliminate damp, strengthen sinews and bones, quicken blood and resolve toxin. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, wilting-weakness in limbs, knocks and falls, swelling pain in throat. Isolated compounds: 7827, 12358.
- T2738 *Flemingia strobilifera* (Fabaceae); QIU SUI QIAN JIN BA; Conespike Flemingia. Used part: root or whole herb. TCM Effects: To clear heat and eliminate damp, dispel wind and free network vessels, relieve cough and transform phlegm. TCM Indications: Wind-damp impediment pain, lassitude in lumbus and knees, phlegm-heat cough, asthma, pertussis, jaundice. Isolated compounds: 15286, 22044.
- T2739 *Flindersia collina* (Rutaceae); SHAN QIU JU PAN MU; Hill Flindersia\*. Isolated compounds: 3926.
- T2740 *Flourensia cernua* (Asteraceae); FU CHUI FE LAO JU; Tarbush. Isolated compounds: 4918, 6797, 7838, 9371, 9480, 9564, 14639, 15666, 15936, 16824, 21038, 21542.
- T2741 *Flourensia riparia* (Asteraceae); HE AN FU LAO JU; Riparian Tarbush\*. Isolated compounds: 10050, 19754.
- T2742 *Flustra foliacea* (Flustridae); BEI HAI XIAN TAI CHONG; North Sea Bryozoan. Isolated compounds: 2484, 2621, 2622, 4868, 4869, 7842, 7843, 7844.
- T2743 *Flyriella parryi*. Isolated compounds: 16093.
- T2744 *Foeniculum vulgare* (Apiaceae); HUI XIANG; Fennel Fruit. Used part: fruit. TCM Effects: To warm kidney and disperse cold, rectify *qi* and harmonize stomach. TCM Indications: incarcerated hernia of intestine, effusion of vaginal coat, elephantiasis of scrotum, cold mounting, cold pain in lesser-abdomen, kidney vacuity lumbago, stomachache, vomiting, beriberi. Isolated compounds: 1183, 1186, 1282, 1284, 1289, 3695, 6482, 7385, 7751, 11574, 12843, 19784, 20369, 20566, 20988, 20998, 22195.
- T2745 *Foeniculum vulgare* (Apiaceae); HUI XIANG GEN; Fennel Root. Used part: root. TCM Effects: To warm kidney and harmonize center, move *qi* and relieve pain. TCM Indications: Cold mounting, stomach cold with retching counterflow, abdominal pain, pain in joints due to rheumatalgia. Isolated compounds: 6193, 7426.
- T2746 *Foeniculum vulgare* (Apiaceae); HUI XIANG JING YE; Fennel Stem and Leaf. Used part: stem-leaf. TCM Effects: To expel wind, normalize *qi*, relieve pain. TCM Indications: Sand *qi*, mounting *qi*, swollen welling abscess. Isolated compounds: 1284, 4134, 4879, 7768, 8307, 9043, 11574, 11897, 15325, 18421, 19912, 20566.
- T2747 *Fomes cajanderi* (Polyporaceae); FEN ROU CENG KONG JUN. Isolated compounds: 7876, 7877, 7878.
- T2748 *Fomes fomentarius* [Syn. *Pyropolyporus fomentarius*; *Boletus fomentarius*; *Polyporus fomentarius*] (Polyporaceae); MU TI CENG KONG JUN. Used part: sporocarp. TCM Effects: To disperse accumulation, transform stasis, anticancer. TCM Indications: Food accumulation, carcinoma of esophagus, carcinoma of stomach, ovarian carcinoma. Isolated compounds: 7249.
- T2749 *Fomes officinalis* (Polyporaceae); A LI HONG; Fomes Officinalis Sporocarp. Used part: sporocarp. TCM Effects: To relieve cough and calm asthma, dispel wind and eliminate damp, disperse swelling and relieve pain, disinhibit urine, resolve snake toxin. TCM Indications: Cough, asthma, chronic rheumatic arthritis, swelling pain in throat, stomachache, urethral stone, periodontitis, edema, poisonous snake bite. Isolated compounds: 4909, 4910, 6672, 6673, 6674, 6675, 6676, 7247, 7250, 7856, 7857, 7858, 7859, 12488, 16013, 20237, 20480, 20483.
- Fomes pinicola* = *Fomitopsis pinicola*
- T2750 *Fomitopsis pinicola* [Syn. *Fomes pinicola*; *Polyporus pinicola*] (Polyporaceae); HONG YUAN CENG KONG JUN; Red Belt Polypore. Used part: sporocarp. TCM Effects: To dispel wind and eliminate damp. TCM Indications: Wind-cold-damp impediment, pain



- in joints. Isolated compounds: 7860, 7861, 7862, 7866, 7867, 7868, 7869, 7870, 7871, 7872, 7873, 7874, 7875, 17273, 17388, 17389.
- T2751 *Fomitopsis spraguei* (Polyporaceae); CENG KONG JUN; Polypore. Isolated compounds: 7863, 7864, 7865.
- T2752 *Fordia cauliflora* (Fabaceae); GAN HUA DOU; Common Fordia. Used part: root, leaf. TCM Effects: To quicken blood and free network vessels, disperse swelling and relieve pain, transform phlegm and relieve cough. TCM Indications: Wind-damp impediment pain, knocks and falls, swelling pain of welling abscess and sore, cough. Isolated compounds: 3334, 3335, 6397, 12163.
- T2753 *Formica fusca* (Formicidae); HEI MA YI; Silky Ant. Used part: body. TCM Effects: To supplement kidney and boost essence, free channels and quicken network vessels, resolve toxin and disperse swelling. TCM Indications: Kidney vacuity dizziness and tinnitus, insomnia and frequent dreaming, impotence and emission, wind-damp impediment pain, wind stroke with hemiplegia, numbness in limbs, erythematous lupus, chorionitis, dermatomyositis, swollen welling abscess and clove sores, poisonous snake bite. Isolated compounds: 1053, 2393, 4865, 6545, 22224, 22226.
- T2754 *Forsythia koreana* (Oleaceae); CHAO XIAN LIAN QIAO; Korean Forsythia\*. Isolated compounds: 7924.
- T2755 *Forsythia* sp. (Oleaceae). Isolated compounds: 580, 3214, 15135, 15477.
- T2756 *Forsythia suspensa* (Oleaceae); LIAN QIAO; Weeping Forsythia. Used part: dried fruit. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling. TCM Indications: Influenza in early stage, common cold in early stage, wind-heat common cold, encephalitis, hepatitis, tuberculosis, warm disease, heat strangury with inhibited pain, welling abscess, welling abscess and flat abscess, toxin swelling, scrofula, goiter and tuberculosis, throat impediment. Isolated compounds: 386, 387, 1511, 3045, 3048, 3194, 3761, 4550, 6029, 7922, 7923, 7924, 7925, 7926, 7927, 11247, 12440, 12843, 12849, 13595, 15146, 15926, 15927, 16050, 16106, 16107, 17056, 17143, 17145, 17376, 17377, 17409, 18613, 18614, 18615, 18616, 18617, 18618, 18619, 19121, 19540, 20497, 20990, 20992, 20995, 22270, 22720.
- T2757 *Forsythia viridissima* (Oleaceae); JIN ZHONG HUA; Greenstem Forsythia. Used part: proper exciple, root or leaf. TCM Effects: To clear heat and resolve toxin, dissipate binds. TCM Indications: Common cold with fever, red eyes with gall, welling abscess and sores, erysipelas, scrofula. Isolated compounds: 580, 1621, 1623, 1935, 11642, 13595.
- T2758 *Fortunella crassifolia* (Rutaceae); JIN DAN; Meiwa Kumquat. Used part: fruit. TCM Effects: See *Fortunella margarita*. TCM Indications: See *Fortunella margarita*. Isolated compounds: 7930.
- T2759 *Fortunella japonica* (Rutaceae); JIN GAN; Japanese Kumquat. Used part: fruit. TCM Effects: See *Fortunella margarita*. TCM Indications: See *Fortunella margarita*. Isolated compounds: 11716, 15635, 20670.
- T2760 *Fortunella margarita* (Rutaceae); JIN JU; Oval Kumquat. Equivalent plant: *Fortunella crassifolia*, *Fortunella japonica*. Used part: fruit. TCM Effects: To rectify *qi* and resolve depression, disperse food and transform phlegm, arouse liquor. TCM Indications: Oppression and depression in chest, liquor damage with thirst, food stagnation in torpid stomach. Isolated compounds: 7930, 11716, 20670.
- T2761 *Fortunella margarita* (Rutaceae); JIN JU YE; Oval Kumquat Leaf. Used part: leaf. TCM Effects: To soothe depressed liver *qi*, open stomach *qi*, dissipate lung *qi*. TCM Indications: Dysphagia-occlusion, scrofula. Isolated compounds: 15635.
- T2762 *Fouquieria splendens* HUA LAI CI SHU; *Fouquieria splendens*. Isolated compounds: 15930.
- T2763 *Fragaria ananassa* (Rosaceae); CAO MEI; Common Strawberry. Used part: fruit. TCM Effects: To allay thirst, fortify stomach and disperse food. TCM Indications: Thirst, inappetence, indigestion. Isolated compounds: 13261, 15681, 21392.
- T2764 *Fragaria vesca* (Rosaceae); YE CAO MEI; European Strawberry. Isolated compounds: 17876.  
*Frangula alnus* = *Rhamnus frangula*
- T2765 *Fraxinus americana* (Oleaceae); NEI GUO BAI CEN; White Ash. Isolated compounds: 5084, 7934, 7941, 10552, 10553.
- T2766 *Fraxinus bungeana* (Oleaceae); XIAO YE CEN; Bunga Ash Bark. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 664, 7942, 7944.
- T2767 *Fraxinus chinensis* (Oleaceae); BAI LA SHU; Chinese Ash Bark. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 7942, 16080.  
*Fraxinus chinensis* var. *acuminata* = *Fraxinus szaboana*  
*Fraxinus chinensis* var. *rhynchophylla* = *Fraxinus rhynchophylla*
- T2768 *Fraxinus excelsior* (Oleaceae); OU ZHOU BAI LA SHU; European Ash. Isolated compounds: 7944.
- T2769 *Fraxinus floribunda* (Oleaceae); XI MA BAI LA SHU; Manyflower Ash. Isolated compounds: 7942.
- T2770 *Fraxinus insularis* (Oleaceae); KU LI MU YE; Retuse Ash Leaf. Isolated compounds: 11089, 11090.
- T2771 *Fraxinus japonica* (Oleaceae); RI BEN BAI LA SHU; Japanese Ash\*. Isolated compounds: 16080, 17409.
- T2772 *Fraxinus mandshurica* (Oleaceae); SHUI QU LIU; Manchurian Ash. Used part: bark. TCM Effects: To clear heat and dry damp, clear liver and brighten eyes. TCM Indications: damp-heat diarrhea dysentery, vaginal discharge, liver heat and red eyes, eye screen, oxhide lichen. Isolated compounds: 663, 664.
- T2773 *Fraxinus ornus* (Oleaceae); HUA BAI LA SHU; Flowering Ash. Isolated compounds: 663, 664, 7942, 7944, 11513, 13504.
- T2774 *Fraxinus paxiana* (Oleaceae); QIN LING BAI LA SHU; Pax Ash. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 664, 7944.
- T2775 *Fraxinus potamophila* (Oleaceae); TU ER QI SI TAN BAI LA SHU; Turkestan Ash. Isolated compounds: 7944.
- T2776 *Fraxinus quadrangulata* (Oleaceae); SI LENG LA SHU; Blue Ash. Isolated compounds: 3981.
- T2777 *Fraxinus rhynchophylla* [Syn. *Fraxinus chinensis* var. *rhynchophylla*] (Oleaceae); CEN PI; Largeleaf Chinese Ash Bark. Equivalent plant: *Fraxinus szaboana*, *Fraxinus chinensis*, *Fraxinus stylosa*, *Fraxinus bungeana*, *Fraxinus paxiana*. Used part: bark. TCM Effects: To clear

- heat and dry damp, promote astriction, brighten eyes. TCM Indications: Heat dysentery, diarrhea, chronic bronchitis, rheumatic arthritis, red and white vaginal discharge, red eyes with gall, eye screen. Isolated compounds: 663, 664.
- T2778 *Fraxinus* sp. (Oleaceae). Isolated compounds: 11428.
- T2779 *Fraxinus stylosa* (Oleaceae); LIU YE CEN; Willowleaf Ash Bark. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 664, 7944, 20569.
- T2780 *Fraxinus szaboana* [Syn. *Fraxinus chinensis* var. *acuminata*] (Oleaceae); JIAN YE CEN; Acuteleaf Ash Bark. Used part: bark. TCM Effects: See *Fraxinus rhynchophylla*. TCM Indications: See *Fraxinus rhynchophylla*. Isolated compounds: 663, 664, 6204, 7944, 19542.
- T2781 *Fritillaria anhuiensis* (Liliaceae); AN HUI BEI MU; Anhui Fritillary. Isolated compounds: 618, 6658, 12181, 21359, 22636.
- T2782 *Fritillaria camtschatcensis* (Liliaceae); HEI BAI HE; Kamchatka Fritillary. Isolated compounds: 9220, 18571, 20056, 20066.
- T2783 *Fritillaria cirrhosa* (Liliaceae); CHUAN BEI MU; Tendrilleaf Fritillary. Equivalent plant: *Fritillaria unibracteata*, *Fritillaria delavayi*, *Fritillaria przewalskii*. Used part: bulb. TCM Effects: To clear heat and moisten lung, relieve cough and transform phlegm. TCM Indications: Lung heat cough, dry cough, chronic bronchitis, infection of upper respiratory tract, tuberculosis, gastric ulcer, duodenal ulcer, *yin* vacuity taxation cough, cough with phlegm and blood. Isolated compounds: 11002, 12275, 12276, 12277, 12278, 12279, 20056.
- T2784 *Fritillaria delavayi* (Liliaceae); LENG SHA BEI MU; Delavay Fritillary. Used part: bulb. TCM Effects: See *Fritillaria cirrhosa*. TCM Indications: See *Fritillaria cirrhosa*. Isolated compounds: 3630, 4996, 4997, 11002.
- T2785 *Fritillaria ebeiensis* (Liliaceae); E BEI BEI MU; Ebei Fritillary. Isolated compounds: 6658, 6660, 6661, 7959, 7961, 7962, 7963, 7964, 7967, 9680.
- T2786 *Fritillaria ebeiensis* var. *purpurea* (Liliaceae); ZI HUA E BEI BEI MU; Purpleflower Fritillary. Isolated compounds: 6657, 6659, 6660, 6661, 7958, 7965, 7966, 7968, 7969, 12168, 22998, 23001.
- T2787 *Fritillaria hupehensis* (Liliaceae); HU BEI BEI MU; Hupeh Fritillary. Used part: bulb. TCM Effects: To relieve cough and transform phlegm, resolve toxin and dissipate binds. TCM Indications: Externally contracted wind-heat cough, phlegm-heat cough, cough with profuse phlegm, scrofula, swollen welling abscess, mammary welling abscess, pulmonary welling abscess. Isolated compounds: 7960, 9679, 9680, 9681, 9682, 9683, 9684, 9685, 12168, 12169.
- T2788 *Fritillaria imperialis* (Liliaceae); XI BEI MU; Crown Imperial. Isolated compounds: 4990, 4996, 5645, 6657, 6661, 7794, 7928, 11002, 11004, 11005, 11244, 16773, 16988, 19828, 21466.
- T2789 *Fritillaria ningguoensis* (Liliaceae); NING GUO BEI MU; Ningguo Fritillary. Isolated compounds: 15613, 15614.
- T2790 *Fritillaria pallidiflora* (Liliaceae); YI BEI MU; Siberian Fritillary. Equivalent plant: *Fritillaria walujewii*. Used part: bulb. TCM Effects: To clear lung, transform phlegm, dissipate binds. TCM Indications: Lung heat cough, sticky phlegm and oppression in chest, consumption cough and hemoptysis, scrofula, swollen welling abscess. Isolated compounds: 6144, 11002, 11003, 16776, 22904, 22905, 22906, 22907.
- T2791 *Fritillaria persica* (Liliaceae); TAO BEI MU; Peach Fritillary\* Isolated compounds: 9681, 16989, 17020.
- T2792 *Fritillaria przewalskii* (Liliaceae); GAN SU BEI MU; Przewalsk Fritillary. Used part: bulb. TCM Effects: See *Fritillaria cirrhosa*. TCM Indications: See *Fritillaria cirrhosa*. Isolated compounds: 618, 3630, 4997, 11002, 21359.
- T2793 *Fritillaria puqiensis* (Liliaceae); PU QI BEI MU; Puqi Fritillary\*. Isolated compounds: 18208.
- T2794 *Fritillaria siechuanica* (Liliaceae); HUA XI BEI MU; Huaxi Fritillary. Isolated compounds: 16776.
- T2795 *Fritillaria taipaiensis* var. *ningxiaensis* (Liliaceae); NING XIA BEI MU; Ningxia Fritillary. Isolated compounds: 3630, 11002, 16776, 20624.
- Fritillaria thunbergii* = *Fritillaria verticillata* var. *thunbergii*
- T2796 *Fritillaria unibracteata* (Liliaceae); AN ZI BEI MU; Unibract Fritillary. Used part: bulb. TCM Effects: See *Fritillaria cirrhosa*. TCM Indications: See *Fritillaria cirrhosa*. Isolated compounds: 11002, 19983, 20074, 20280, 20446.
- T2797 *Fritillaria ussuriensis* (Liliaceae); PING BEI MU; Ussuri Fritillary. Used part: bulb. TCM Effects: To clear heat and moisten lung, relieve cough and transform phlegm. TCM Indications: Dry cough due to lung dryness, dry cough, *yin* vacuity taxation cough, cough with phlegm and blood. Isolated compounds: 618, 16773, 16774, 16776, 17379, 17380, 17381, 17382, 17383, 17384, 17385, 21359.
- T2798 *Fritillaria verticillata* var. *thunbergii* [Syn. *Fritillaria thunbergii*] (Liliaceae); ZHE BEI MU; Thunberg Fritillary. Used part: bulb. TCM Effects: To clear heat and resolve phlegm, dissipate binds and disperse swelling. TCM Indications: Chronic bronchitis, infection of upper respiratory tract, tuberculosis, gastric ulcer, duodenal ulcer, externally contracted wind-heat, phlegm fire cough, pulmonary welling abscess, mammary welling abscess, scrofula, sore toxin, depression in heart-chest. Isolated compounds: 618, 1475, 1963, 2110, 3945, 3946, 6658, 6661, 7155, 7157, 7957, 9220, 9221, 11244, 11770, 12168, 12169, 12181, 13984, 15767, 16773, 16774, 16775, 17337, 20056, 20057, 20058, 21359, 22431, 22432, 22993, 22994, 22995, 22996, 22997.
- T2799 *Fritillaria wabuensis* (Liliaceae); WA BU BEI MU; Wabu Fritillary\*. Isolated compounds: 11771.
- T2800 *Fritillaria walujewii* (Liliaceae); XIN JIANG BEI MU; Sinkiang Fritillary. Used part: bulb. TCM Effects: See *Fritillaria pallidiflora*. TCM Indications: See *Fritillaria pallidiflora*. Isolated compounds: 11002, 22326.
- T2801 *Frullania brasiliensis* (Frullaniaceae); BA XI ER YE TAI; Brazilian Ear-leaf Muscus\*. Isolated compounds: 6894, 6895, 21899.
- Frullania moniliata* = *Frullania tamarisci* ssp. *moniliata*
- T2802 *Frullania muscicola* (Frullaniaceae); KUI BAN ER YE TAI; Armet-petal Ear-leaf Muscus\*. Isolated compounds: 20371.
- T2803 *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*] (Frullaniaceae); CHUAN ZHU ER YE TAI; Rosary Ear-leaf Muscus\*. Used part: frond. TCM Effects: To brighten eyes, clear heart, supplement kidney. TCM Indications: Red eyes with gall, blurred

- vision, vexation due to febrile disease. Isolated compounds: 20656.
- T2804 *Fuchsia* sp. (Onagraceae). Isolated compounds: 7518, 8311, 16836, 20910.
- T2805 *Fugu ocellatus* (Tetraodontidae); HE TUN; Globefish. Used part: meat. TCM Effects: To supplement liver and kidney, dispel damp and relieve pain. TCM Indications: Impotence, enuresis, dizziness, limp aching lumbus and knees, wind-damp impediment pain, itchy skin. Isolated compounds: 21210, 21211.
- T2806 *Fuligo candida* (Physaceae); LIANG BAI MEI RONG JUN; White Fuliga\*. Isolated compounds: 4466.
- T2807 *Fumaria officinalis* (Papaveraceae); YAO YONG QIU GUO ZI JIN; Medicinal Fumaria. Isolated compounds: 2734, 4290, 7996, 7997, 12952, 19284.
- T2808 *Fumaria parviflora* (Papaveraceae); XIAO HUA QIU GUO ZI JIN; Fine-leaved Fumitory. Isolated compounds: 4290, 5708, 16663.
- T2809 *Fumaria schleicheri* (Papaveraceae); YAN JIN; Schleicher Fumitory. Isolated compounds: 16446, 16663.
- T2810 *Fumaria vaillantii* (Papaveraceae); WEI LAN QIU GUO ZI JIN; Few-flowered Fumitory. Isolated compounds: 5708, 12602, 16663.
- T2811 *Funtumia elastica* (Apocynaceae); SI JIAO SHU; Silk-rubber Tree. Isolated compounds: 8010.
- T2812 *Fusarium acutatum*. Isolated compounds: 14451.
- T2813 *Fusarium equiseti*. Isolated compounds: 7221.
- T2814 *Fusarium nivale*. Isolated compounds: 15633.
- T2815 *Fusarium roseum*. Isolated compounds: 22618.
- T2816 *Fusarium* sp. Isolated compounds: 14719, 19296.
- T2817 *Fusarium tricinatum*. Isolated compounds: 22070.
- T2818 *Fuscoporia obliqua* (Polyporaceae); HUA HE KONG JUN; Oblique Fuscoporia\*. Isolated compounds: 8033.
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- T2819 *Gackstroemia decipiens* (Lepidolaenaceae); Liverwort. Isolated compounds: 164, 6109, 6110, 7141, 7165, 7175, 10582, 10678, 10679, 21829.
- T2820 *Gaillardia pulchella* (Asteraceae); TIAN REN JU; Rosering Gaillardia. Isolated compounds: 8047, 14205.
- T2821 *Galanthus elwelii* (Amaryllidaceae); DA XUE HUA LIAN; Giant Snowdrop. Isolated compounds: 15750.
- T2822 *Galanthus nivalis* (Amaryllidaceae); XUE HUA LIAN; Snowdrop. Isolated compounds: 8083, 15288.
- T2823 *Galanthus plicatus* ssp. *byzantinus* (Amaryllidaceae); TU ER QI XUE HUA LIAN; Turkish Snowdrop\*. Isolated compounds: 8084, 17560, 19633.
- T2824 *Galega officinalis* (Fabaceae); SHAN YANG DOU; Common Goatsrue. Isolated compounds: 8091, 10271, 11965.
- T2825 *Galeobdolon chinense* [Syn. *Lamium chinense*] (Lamiaceae); XIAO YE ZHI MA; China Weasel-snout. Used part: tuberoid. TCM Effects: To stanch bleeding. TCM Indications: Bleeding due to external injury. Isolated compounds: 580, 1496.
- T2826 *Galeola faberi* (Orchidaceae); SHAN HU LAN; Faber Galeola. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, regulate menstruation and stanch bleeding, promote astriction and stem desertion. TCM Indications: Damp-heat jaundice, dysentery with pus and blood, swelling toxin of sore and welling abscess, poisonous snake bite, menstrual disorder, flooding and spotting, prolapse of uterus, prolapse of rectum. Isolated compounds: 2453, 8237, 9833, 14056.
- T2827 *Galipea bracteata* (Rutaceae); BAO PIAN TU LA SHU; Bracteole Galipea\*. Isolated compounds: 16898, 17940.
- T2828 *Galipea longiflora* (Rutaceae); CHANG HUA TU LA SHU; Longflower Galipea\*. Isolated compounds: 16898, 17135, 17940.
- T2829 *Galipea officinalis* (Rutaceae); AN GU SI TU LA SHU; Angostura-bark Tree. Isolated compounds: 4421.
- T2830 *Galium aparine* (Rubiaceae); BA XIAN CAO; Catchweed Bedstraw. Used part: herb. TCM Effects: To clear damp heat, dissipate stasis, disperse swelling, resolve toxin. TCM Indications: Strangury-turbidity, hematuria, knocks and falls, intestinal welling abscess, swollen boil, otitis media. Isolated compounds: 1892, 6454, 9458, 11812.
- T2831 *Galium glaucum* (Rubiaceae); FEN LU ZHU YANG YANG; Glaucous Bedstraw\*. Isolated compounds: 14933.
- T2832 *Galium mollugo* (Rubiaceae); SU ZHU YANG YANG; Hedge Bedstraw. Isolated compounds: 9458, 14901.
- T2833 *Galium rivale* (Rubiaceae); XI LIU ZHU YANG YANG; River Bedstraw\*. Isolated compounds: 18850, 18851, 18852.
- T2834 *Galium* sp. (Rubiaceae). Isolated compounds: 899, 901, 13041, 18222.
- T2835 *Galium verum* (Rubiaceae); PENG ZI CAI; Yellow Bedstraw. Used part: herb. TCM Effects: To clear heat and resolve toxin, move blood and relieve itch. TCM Indications: Hepatitis, painful swelling throat moth, clove sore and swollen boil, paddy field dermatitis, urticaria, knocks and falls, blood *qi* pain. Isolated compounds: 1892, 3551, 14805, 16578, 17169, 17470, 19000.
- T2836 *Gallus gallus domesticus* (Phasianidae); JI NAO; Chicken Brain. Used part: brain. TCM Effects: To extinguish wind and check tetany. TCM Indications: Difficult delivery, child fright epilepsy, infant night crying. Isolated compounds: 2373, 3511.
- T2837 *Gallus gallus domesticus* (Phasianidae); JI ROU; Chicken. Used part: meat. TCM Effects: To warm center, boost *qi*, supplement essence and replenish marrow. TCM Indications: Vacuity taxation with marked emaciation, weakness during convalescence, reduced food intake, stomach reflux, diarrhea and dysentery, diabetes mellitus, edema, frequent urination, flooding and spotting, vaginal discharge, postpartum scant milk. Isolated compounds: 14490.
- T2838 *Gallus gallus domesticus* (Phasianidae); JI NEI JIN; Chicken's Gizzard Endothelium. Used part: dried lining membrane of gizzard. TCM Effects: To fortify spleen and disperse food, rough essence and arrest emission, disperse concretion and transform stone. TCM Indications: Indigestion, food stagnation, vomiting nausea, diarrhea and dysentery, child *gan* accumulation, emission, enuresis, frequent urination, calculus of urinary system, gallstones, amenorrhea with concretion and conglomeration, throat impediment with nipple moth, *gan* of teeth and gum, mouth sore. Isolated compounds: 1048, 1350.
- T2839 *Gallus gallus domesticus* (Phasianidae); JI ZI BAI; Hen's Egg-albumen. Used part: egg white. TCM Effects: To moisten lung and disinhibit throat, clear heat and resolve toxin. TCM Indications: Deep-lying heat sore pharynx, aphonia, red eyes, vexation and fullness, cough and counterflow, dysentery, jaundice, swelling toxin of sore and

- welling abscess, burns and scalds. Isolated compounds: 1042, 13126.
- T2840 *Gallus gallus domesticus* (Phasianidae); JI ZI HUANG; Hen's Egg Yolk. Used part: egg yolk. TCM Effects: To enrich *yin* and moisten dryness, nourish blood and extinguish wind. TCM Indications: Insomnia and vexation, febrile diseases tetanic reversal, vacuity taxation blood ejection, retching counterflow, dysentery, scalds, heat sore, hepatitis, child indigestion. Isolated compounds: 1042, 13126, 15528.
- T2841 *Gallus gallus domesticus* (Phasianidae); JI ZI KE; Hen's Egg Shell. Used part: egg shell. TCM Effects: To promote astriction, inhibit acid, strengthen bones, stanch bleeding, brighten eyes. TCM Indications: Stomach duck pain, stomach reflux, acid vomiting, rachitis in children, various hemorrhage, eye screen, *gan* sore pox toxin. Isolated compounds: 17730.
- T2842 *Galtonia candicans* (Liliaceae); XIA FENG XIN ZI; Summer-hyacinth. Isolated compounds: 1578, 3724, 6107, 7081, 8691, 8699.
- T2843 *Gambeya boukokoensis* (Sapotaceae). Isolated compounds: 8129, 8130, 8131.
- T2844 *Ganoderma applanatum* (Polyporaceae); SHU SHE; Tongue-on-tree. Used part: sporocarp. TCM Effects: To eliminate inflammation, anticancer. TCM Indications: Pharyngolaryngitis, carcinoma of esophagus, nasopharyngeal carcinoma. Isolated compounds: 6168, 8163, 8164, 10759, 14231, 14397, 14456, 14458, 14459, 21100, 21859.
- T2845 *Ganoderma capense* (Polyporaceae); BAO GAI LING ZHI; Cape Ganoderma. Isolated compounds: 8192, 8193, 8194.
- T2846 *Ganoderma japonicum* [Syn. *Ganoderma sinense*] (Polyporaceae); ZI ZHI; Japanese Ganoderma. Used part: dried sporocarp. TCM Effects: See *Ganoderma lucidum*. TCM Indications: See *Ganoderma lucidum*. Isolated compounds: 7250, 7996, 8753.
- T2847 *Ganoderma lipsiense* (Polyporaceae). Isolated compounds: 8162, 8172.
- T2848 *Ganoderma lucidum* (Polyporaceae); LING ZHI; Lucid Ganoderma. Equivalent plant: *Ganoderma japonicum*. Used part: dried sporocarp. TCM Effects: To boost *qi*-blood, quiet heart and spirit, fortify spleen and stomach, lower cholesterol. TCM Indications: Hyperlipemia, coronary heart disease, angina pectoris, septicemia, carcinoma, hepatitis, vacuity taxation, palpitation, insomnia, dizziness, fatigue hypodynamia, enduring cough and asthma, chronic bronchitis, silicosis. Isolated compounds: 618, 618, 4743, 5608, 5619, 5620, 5946, 7246, 7250, 7251, 8148, 8149, 8150, 8151, 8152, 8153, 8154, 8155, 8156, 8157, 8158, 8159, 8160, 8161, 8165, 8166, 8167, 8168, 8169, 8170, 8171, 8173, 8174, 8175, 8176, 8177, 8178, 8179, 8180, 8181, 8182, 8183, 8184, 8185, 8186, 8187, 8188, 8189, 8190, 8191, 8195, 8196, 8197, 8198, 8199, 8200, 10320, 12482, 12483, 12484, 12485, 12486, 13019, 13020, 13021, 13023, 13024, 13025, 13026, 13027, 13028, 13029, 13030, 13031, 13032, 13033, 13034, 13035, 13036, 13037, 13038, 13039, 13040, 13048, 13049, 13050, 13052, 14231, 14237, 14457, 14460, 14559, 14560, 14561, 14562, 14563, 14564, 14565, 16335, 16336, 18841, 22068, 22069.  
*Ganoderma sinense* = *Ganoderma japonicum*
- T2849 *Garcinia afzelii* (Clusiaceae); A FU ZE LI SHAN ZHU ZI; Afzeli *Garcinia*\*. Isolated compounds: 679, 680.
- T2850 *Garcinia bancana* (Clusiaceae). Isolated compounds: 8218, 21132.
- T2851 *Garcinia cambogia* (Clusiaceae); TENG HUANG SHAN ZHU ZI; Camboge *Garcinia*\*. Isolated compounds: 8218.
- T2852 *Garcinia cowa* (Clusiaceae); YUN NAN SHAN ZHU ZI; Yunnan *Garcinia*. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, expel worms. TCM Indications: Eczema, stomatitis, periodontitis, ulcerating welling abscess and sore, burns and scalds, leech in nose. Isolated compounds: 4195, 4196, 4197, 4198, 4199, 4200, 4201, 4202, 5974, 7974, 13495, 15728, 21768, 21780.
- T2853 *Garcinia dulcis* (Clusiaceae); TIAN SHAN ZHU ZI; Dulcin *Garcinia*\*. Isolated compounds: 1476, 2334, 2685, 2685, 3029, 3475, 3850, 4196, 4200, 4202, 4202, 4220, 5227, 5276, 5926, 5926, 6622, 6623, 6624, 6625, 6626, 6627, 6628, 6629, 6630, 6631, 6633, 6853, 7991, 8218, 8218, 8219, 8219, 8221, 8235, 8246, 10662, 10803, 10887, 11514, 11527, 11564, 12018, 12060, 13088, 13492, 13492, 13493, 14969, 14969, 14988, 14988, 15951, 17588, 18674, 18755, 20150, 21481, 21768, 22581, 22609, 22759, 22760.
- T2854 *Garcinia eugenifolia* (Clusiaceae); ZHEN YE TENG HUANG; Realeaf *Garcinia*\*. Isolated compounds: 6011.
- T2855 *Garcinia gaudichaudii* (Clusiaceae); GAO DI CHA SHAN ZHU ZI; Gaudicha *Garcinia*\*. Isolated compounds: 8239.
- T2856 *Garcinia griffithii* (Clusiaceae); GE LI FEI SI TENG HUANG; Griffith *Garcinia*\*. Isolated compounds: 9091.
- T2857 *Garcinia hanburyi* (Clusiaceae); TENG HUANG SHU; Hanbury *Garcinia*\*. Used part: resin. TCM Effects: To attack toxin, disperse swelling, eliminate putridity and close sores, stanch bleeding, kill worms. TCM Indications: Swelling toxin of welling abscess and flat abscess, ulcer, damp sore, carcinoma, intractable lichen, painful swelling from knocks and falls, bleeding due to external injury, scalds. Isolated compounds: 5175, 8128, 8238, 9207, 11433, 11542, 14967, 14968, 14970, 15394.
- T2858 *Garcinia hombroniana* (Clusiaceae); SHAN FENG GUO; Mountainous *Garcinia*. Isolated compounds: 10128, 10572, 14303, 14781.
- T2859 *Garcinia indica* (Clusiaceae); YIN DU TENG HUANG; Indian *Garcinia*\*. Isolated compounds: 8218.
- T2860 *Garcinia kola* (Clusiaceae); KE LE TENG HUANG; Kola *Garcinia*\*. Isolated compounds: 9393, 12255, 12256.
- T2861 *Garcinia linii* (Clusiaceae); TAI WAN LV DAO TENG HUANG; Lanyu *Garcinia*. Isolated compounds: 2005, 2694, 5841, 5843, 6010, 6165, 6181, 6183, 8203, 8204, 8205, 8556, 10462, 12886, 12887, 12888, 13808, 14572, 18754.
- T2862 *Garcinia macrophylla* (Clusiaceae). Isolated compounds: 9089, 9090.
- T2863 *Garcinia mangostana* (Clusiaceae); DAO NIAN ZI; Mangosteen. Isolated compounds: 1277, 1928, 2685, 4196, 5064, 5276, 5276, 5925, 5926, 5926, 6158, 6629, 6853, 8206, 8207, 8208, 8209, 8219, 8219, 8220, 8221, 8221, 8222, 8222, 8235, 10199, 10250, 11526, 11526, 11527, 13296, 13484, 13485, 13486, 13487, 13488, 13489, 13490, 13491, 13492, 13492, 13492, 13493, 13493, 13494, 13494, 13495, 13496, 14577, 15715, 17866, 17867, 17869, 17888, 21133, 21358, 21481, 21503, 21723.
- T2864 *Garcinia mannii* (Clusiaceae); MAN TENG HUANG; Mann *Garcinia*\*. Isolated compounds: 13502, 22759.

- T2865 *Garcinia merguensis* (Clusiaceae). Isolated compounds: 13782.
- T2866 *Garcinia morella* (Clusiaceae); TENG HUANG; Gamboge Tree Resin. Used part: balsam. TCM Effects: To disperse swelling and resolve toxin, stanch bleeding and kill worms. TCM Indications: Swelling toxin of welling abscess and flat abscess, intractable lichen, malign sore, bleeding due to external injury, *gan* of teeth and gum, burns and scalds. Isolated compounds: 5196, 5651, 7401, 8128, 11540, 11541, 11659, 14967, 14968, 14969, 15394.
- T2867 *Garcinia multiflora* (Clusiaceae); SHAN ZHU ZI; Manyflower *Garcinia*. Used part: bark or fruit. TCM Effects: To clear heat and engender liquid. TCM Indications: Stomach heat fluid damage, vomiting, thirst, lung heat *qi* counterflow, incessant cough. Isolated compounds: 2382, 2383, 5505, 5506, 5819, 6165, 7991, 8210, 8211, 8243, 8244, 8245, 8246, 9543, 13296, 14969, 15279, 15715, 20158, 21082, 21125, 21715, 22609, 22760.
- T2868 *Garcinia nigrolineata* (Clusiaceae); HEI XIAN TIAO TENG HUANG; Nigroline *Garcinia*\*. Isolated compounds: 1135, 2595, 5184, 5276, 5925, 5926, 7951, 12560, 15572, 15573, 15574, 15575, 15576, 15577, 15578, 15579, 15580, 15581, 15582, 15583, 15584, 15585, 15586, 15587, 15588, 15589, 15590, 15591, 15592, 18755, 21482, 21747, 21748.
- T2869 *Garcinia ovalifolia* (Clusiaceae); LUAN YE TENG HUANG; Ovateleaf *Garcinia*\*. Isolated compounds: 9857, 22759.
- T2870 *Garcinia polyantha* (Clusiaceae); DUO HUA TENG HUANG; Manyflower *Garcinia*\*. Isolated compounds: 2135, 2136.
- T2871 *Garcinia pseudoguttifera* (Clusiaceae); FEI JI TENG HUANG; Fiji *Garcinia*\*. Isolated compounds: 15224, 15225, 18027, 22550.
- T2872 *Garcinia scortechinii* (Clusiaceae). Isolated compounds: 19546, 19547, 19548, 19549, 19550, 19551, 19552, 19553, 19554, 19555, 19556, 19557, 19558, 19559, 19560, 19561.
- T2873 *Garcinia smeathmannii* (Clusiaceae). Isolated compounds: 20018, 20019.
- T2874 *Garcinia* sp. (Clusiaceae). Isolated compounds: 13809.
- T2875 *Garcinia speciosa* (Clusiaceae); MEI LI TENG HUANG; Beautiful *Garcinia*\*. Isolated compounds: 274, 467, 536, 537, 5276, 5947, 6853, 7125, 7126, 7127, 8223, 8224, 8225, 8226, 10571, 10572, 14298, 14299, 14302, 14315, 14407, 14518.
- T2876 *Garcinia* spp. (Clusiaceae). Isolated compounds: 6181.
- T2877 *Garcinia subelliptica* (Clusiaceae); FU MU. Isolated compounds: 8213, 8214, 8215, 8216, 8217.
- T2878 *Garcinia vilersiana* (Clusiaceae). Isolated compounds: 8558, 9994, 14467, 20435, 20436, 20526, 21960.
- T2879 *Garcinia virgata* (Clusiaceae); DUO ZHI ZHI TENG HUANG. Isolated compounds: 5965, 6415, 6416, 9003, 21417, 22524, 22525.
- T2880 *Garcinia xanthochymus* (Clusiaceae); DA YE TENG HUANG; Yellowjuice *Garcinia*. Isolated compounds: 8212, 9994, 11782, 13808, 21099, 21168, 21783, 22759.  
*Gardenia florida* = *Gardenia jasminoides*
- T2881 *Gardenia gummifera* (Rubiaceae); JIAO ZHI ZI; Gummy *Gardenia*\*. Isolated compounds: 13264.
- T2882 *Gardenia jasminoides* [Syn. *Gardenia florida*] (Rubiaceae); ZHI ZI; Cape Jasmine Fruit. Used part: ripe fruit. TCM Effects: To drain fire and relieve dysphoria, clear heat and disinhibit urine, eliminate heat in blood, stanch bleeding. TCM Indications: Acute icterohepatitis, febrile diseases, vexation, melancholia, restlessness, stagnation of damp-heat in liver and gall, fever, jaundice, short voidings of reddish urine, blood ejection, spontaneous external bleeding, dysentery with hematochezia and hematuria. Isolated compounds: 397, 1792, 1892, 2925, 3551, 4160, 4245, 4249, 4716, 4717, 5411, 5412, 5414, 7070, 8227, 8228, 8230, 8231, 8234, 8273, 8274, 8276, 8277, 10596, 14282, 14296, 14605, 14691, 14722, 15660, 17331, 19455, 19795, 19983, 22270.
- T2883 *Gardenia jasminoides* [Syn. *Gardenia florida*] (Rubiaceae); ZHI ZI YE; Cape Jasmine Leaf. Used part: leaf. TCM Effects: To disperse swelling and resolve toxin, dispel wind and relieve pain. TCM Indications: Knocks and falls, toxin of clove sore, hemorrhoids, chancre. Isolated compounds: 6829, 8276.
- T2884 *Gardenia jasminoides* var. *grandiflora* (Rubiaceae); SHUI ZHI; Bigflower Cape Jasmine. Used part: fruit. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Heat toxin, jaundice, nosebleed(epistaxis), nephritis with edema, sprain and contusion. Isolated compounds: 4249, 4717, 6632, 8231, 8274, 8276, 13504.
- T2885 *Gardenia jasminoides* var. *grandiflora* (Rubiaceae); SHUI ZHI YE; Bigflower Cape Jasmine Leaf. Used part: leaf. TCM Effects: To disperse swelling. TCM Indications: Knocks and falls. Isolated compounds: 6632, 8276.
- T2886 *Gardenia* sp. (Rubiaceae). Isolated compounds: 107.
- T2887 *Gardenia thailandica* (Rubiaceae); TAI GUO ZHI ZI; Thailand *Gardenia*\*. Isolated compounds: 6072, 6149, 8229, 9952, 10163, 10597, 18294, 21233.
- T2888 *Garrya ovata* var. *lindheimeri* (Garryaceae). Isolated compounds: 16279.
- T2889 *Garrya veatchii* (Garryaceae). Isolated compounds: 22360.
- T2890 *Gastrodia elata* (Orchidaceae); TIAN MA; Tall *Gastrodia*. Used part: stem and tuber. TCM Effects: To extinguish wind and check tetany, calm liver and subdue *yang*, dispel wind and free network vessels. TCM Indications: Convulsion, child convulsion, spasm in limbs, facial muscle spasm, trigeminal neuralgia, numbness in limbs, acute fright wind, chronic fright wind, tetanus, dizziness, headache, hemiplegia, hypertension, wind-damp impediment pain. Isolated compounds: 2458, 2459, 3766, 4680, 5866, 7412, 8236, 8237, 9486, 9815, 9833, 9839, 9849, 9850, 17968, 19983, 20444, 20446, 22034, 22336, 22346.
- T2891 *Gaultheria fragrantissima* (Ericaceae); FANG XIANG BAI ZHU; Fragrant *Gaultheria*. Isolated compounds: 8242, 13250, 13977.
- T2892 *Gaultheria griffithiana* (Ericaceae); WEI YE BAI ZHU; Long Acuminate Leaves *Gaultheria*. Isolated compounds: 8242, 13250, 13977.
- T2893 *Gaultheria leucocarpa* var. *cumingiana* (Ericaceae); BAI ZHU SHU; Common *Gaultheria*. Isolated compounds: 8242, 13250, 13977.
- T2894 *Gaultheria tetramera* (Ericaceae); SI LIE BAI ZHU; Four Sepals *Gaultheria*. Isolated compounds: 8242, 13250, 13977.
- T2895 *Gaultheria yunnanensis* (Ericaceae); DIAN BAI ZHU SHU; Yunnan *Gaultheria*. Used part: whole herb or root. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain, quicken blood and free network vessels, relieve cough and transform phlegm. TCM Indications: Wind-damp impediment pain, stomach cold pain,

- knocks and falls, cough with profuse phlegm. Isolated compounds: 8240, 8241, 8242, 11479, 13250, 13976, 13977, 19187.
- T2896 *Gelasinospora santi-florii*; Fungus *Gelasinospora santi-florii*. Isolated compounds: 3164, 10527.
- T2897 *Gelsemium elegans* (Loganiaceae); GOU WEN; Graceful Jessamine. Used part: whole herb. TCM Effects: To dispel wind and attack toxin, disperse swelling and relieve pain, anticancer (itself with high toxicity). TCM Indications: Nose carcinoma, eczema, neuralgia, wind-damp impediment pain, scab and *lai*, scrofula, clove sore, knocks and falls. Isolated compounds: 161, 824, 825, 5253, 5254, 5661, 6738, 7039, 8252, 8253, 8254, 8255, 8257, 8258, 8260, 8261, 9658, 9659, 9660, 9661, 10000, 10001, 10002, 10003, 10004, 10010, 10136, 10168, 10169, 10671, 12288, 12289, 12290, 13938, 13948, 13961, 16338, 18543, 20579.
- T2898 *Gelsemium rankinii* (Loganiaceae). Isolated compounds: 9660.
- T2899 *Gelsemium sempervirens* (Loganiaceae); CHANG LV GOU WEN; Carolina Jasmine. Isolated compounds: 8256, 8257, 9016, 9017, 9018, 9019, 10698, 19697.
- T2900 *Genipa americana* (Rubiaceae); JING NI PING; Genipa. Isolated compounds: 8231, 8266, 8267, 8268, 8269, 8272, 8273, 8274, 8275, 8276, 8277.
- T2901 *Genista tinctoria* (Fabaceae); RAN LIAO MU; Common Woadwaxen. Isolated compounds: 8278, 8282.
- T2902 *Gentiana algida* (Gentianaceae); BAI HUA LONG DAN; Alpine Gentian. Used part: whole herb with root. TCM Effects: To drain fire and resolve toxin, suppress cough, disinhibit damp. TCM Indications: Common cold with fever, lung heat cough, sore pharynx, red eyes, dribbling pain of urination, scrotal eczema. Isolated compounds: 1343, 5676, 5772, 6321, 7855, 8297, 8603.
- T2903 *Gentiana bavarica* (Gentianaceae); BA FA LI YA LONG DAN; Bavarian Gentian. Isolated compounds: 20510.
- T2904 *Gentiana brachyphylla* (Gentianaceae); DUAN YE LONG DAN; Shortleaf Gentian\*. Isolated compounds: 20510.
- T2905 *Gentiana burseri* (Gentianaceae); BU SHI LONG DAN; Burser Gentian\*. Isolated compounds: 8304.
- T2906 *Gentiana campestris* (Gentianaceae); TIAN YE LONG DAN; Meadow Gentian. Isolated compounds: 2220, 15718, 15800, 20511.
- T2907 *Gentiana caucasa* (Gentianaceae); GAO JIA SUO LONG DAN; Caucasian Gentian\*. Isolated compounds: 8293.
- T2908 *Gentiana cephalantha* (Gentianaceae); TOU HUA LONG DAN; Headflower Gentian. Used part: root and rhizome. TCM Effects: See *Gentiana scabra*. TCM Indications: See *Gentiana scabra*. Isolated compounds: 8304, 20509.
- T2909 *Gentiana crassicaulis* (Gentianaceae); CU JING QIN JIAO; Thickstem Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8297, 8304, 12949, 20503, 20509.
- T2910 *Gentiana dahurica* (Gentianaceae); DA WU LI QIN JIAO; Dahuria Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8297, 8304.
- T2911 *Gentiana germanica* (Gentianaceae); DE GUO LONG DAN; German Gentian. Isolated compounds: 20511.
- T2912 *Gentiana japonica* (Gentianaceae); RI BEN LONG DAN; Japanese Gentian\*. Isolated compounds: 20510.
- T2913 *Gentiana kaufmanniana* (Gentianaceae); ZHONG YA QIN JIAO; Central Asia Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8293.
- T2914 *Gentiana kochiana* (Gentianaceae); KU HE LONG DAN; Koch Gentian\*. Isolated compounds: 8290, 14732, 20510.
- T2915 *Gentiana kuroo* (Gentianaceae); KU RUO LONG DAN; Kuroo Gentian\*. Isolated compounds: 19540.
- T2916 *Gentiana lactea* (Gentianaceae); RU BAI LONG DAN; Milky Gentian\*. Isolated compounds: 2220, 20502.
- T2917 *Gentiana leptoclada* (Gentianaceae); MAN ZHI LONG DAN; Spread Gentian. Isolated compounds: 8304.
- T2918 *Gentiana lutea* (Gentianaceae); HUANG LONG DAN; Yellow Gentian. Isolated compounds: 1017, 1110, 1113, 2335, 6011, 7339, 8304, 8306, 10124, 11436, 12889, 12890, 13098, 13916, 19631, 19632, 22261, 22267, 22289.
- T2919 *Gentiana macrophylla* (Gentianaceae); QIN JIAO; Largeleaf Gentian. Equivalent plant: *Gentiana crassicaulis*, *Gentiana straminea*, *Gentiana dahurica*, *Gentiana tianschanica*, *Gentiana tibetica*, *Gentiana kaufmanniana*, *Gentiana siphonantha*. Used part: dried root. TCM Effects: To dispel wind-damp, clear damp heat, relieve pain due to impediment. TCM Indications: Wind-damp impediment pain, hypertonicity of sinews and vessels, aching pain in joints, late afternoon tidal fever, child *gan* accumulation with fever. Isolated compounds: 7335, 7336, 8296, 8297, 8304, 8636, 12344, 13322, 13323, 13324, 13840, 14606, 18292, 18861.
- T2920 *Gentiana makinoi* (Gentianaceae); MU YE LONG DAN; Pasture Gentian\*. Isolated compounds: 8302.
- T2921 *Gentiana manshurica* (Gentianaceae); DONG BEI LONG DAN; Linearleaf Gentian. Used part: root and rhizome. TCM Effects: See *Gentiana scabra*. TCM Indications: See *Gentiana scabra*. Isolated compounds: 1017, 1020, 8304, 20509.
- T2922 *Gentiana nivalis* (Gentianaceae); XUE LONG DAN; Snow Gentian. Isolated compounds: 8290, 20510.
- T2923 *Gentiana olgae* (Gentianaceae); AO LIE GE LONG DAN; Olga Gentian\*. Isolated compounds: 8292, 8293.
- T2924 *Gentiana olivieri* (Gentianaceae); AO SHI LONG DAN; Olivier Gentian\*. Isolated compounds: 8292, 8293, 8295.
- T2925 *Gentiana pedicellata* (Gentianaceae); HUA GENG LONG DAN; Pedicellate Gentian. Isolated compounds: 16761, 16762.
- T2926 *Gentiana ramosa* (Gentianaceae); DUO ZHI LONG DAN; Ramose Gentian\*. Isolated compounds: 20511.
- T2927 *Gentiana rhodantha* (Gentianaceae); HONG HUA LONG DAN; Redflower Gentian. Used part: whole herb with root. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin. TCM Indications: Cough and asthma due to lung heat, consumption cough with phlegm and blood, jaundice, dysentery, bloody stool, inhibited urination, postpartum fever, infant fright wind, *gan* accumulation, toxin swelling of sores, burns and scalds, snake bite. Isolated compounds: 8304, 20509.
- T2928 *Gentiana rigescens* (Gentianaceae); DIAN LONG DAN; Rigescent

- Gentian. Used part: root and rhizome. TCM Effects: See *Gentiana scabra*. TCM Indications: See *Gentiana scabra*. Isolated compounds: 1017, 1020, 8294, 8296, 8297, 8304, 19983, 20509.
- T2929 *Gentiana robusta* (Gentianaceae); CU ZHUANG LONG DAN; Robust Gentian\*. Isolated compounds: 8304, 20509.
- T2930 *Gentiana scabra* (Gentianaceae); LONG DAN; Rough Gentian. Equivalent plant: *Gentiana manshurica*, *Gentiana triflora*, *Gentiana rigescens*, *Gentiana cephalantha*. Used part: root and rhizome. TCM Effects: To clear heat and dry damp, drain liver and settle fright, lower blood pressure. TCM Indications: Acute icterohepatitis, urinary tract infection, acute conjunctivitis, dribbling pain of urination, damp-heat jaundice, genital swelling and itch, damp-heat vaginal discharge, distended head and headache due to liver-gallbladder repletion fire, red eyes with gall, deafness, swelling in ear, pain in rib-side, bitter taste, fright wind and convulsion. Isolated compounds: 1017, 1020, 8297, 8298, 8303, 8304, 8305, 8603, 8635, 8636, 12949, 16087, 18848, 19448, 20503, 20509, 21630.
- T2931 *Gentiana scabra* var. *buesgeri* (Gentianaceae); CU CAO LONG DAN; Scabrous Gentian\*. Isolated compounds: 8304.
- T2932 *Gentiana siphonantha* (Gentianaceae); GUAN HUA QIN JIAO; Tubeflower Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8297.
- T2933 *Gentiana* sp. (Gentianaceae). Isolated compounds: 8307.
- T2934 *Gentiana straminea* (Gentianaceae); MA HUA JIAO; Straw-coloured Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8297, 8304.
- T2935 *Gentiana thunbergii* (Gentianaceae); ZAN SHI LONG DAN; Thunberg Gentian\*. Isolated compounds: 14982, 20708.
- T2936 *Gentiana tianschanica* (Gentianaceae); TIAN SHAN QIN JIAO; Tianshan Mountain Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 8293, 8297, 8303.
- T2937 *Gentiana tibetica* (Gentianaceae); XI ZANG QIN JIAO; Tibet Gentian. Used part: dried root. TCM Effects: See *Gentiana macrophylla*. TCM Indications: See *Gentiana macrophylla*. Isolated compounds: 7435, 8291, 8297, 10174, 11435, 11517, 13321.
- T2938 *Gentiana triflora* (Gentianaceae); SAN HUA LONG DAN; Threeflower Gentian. Used part: root and rhizome. TCM Effects: See *Gentiana scabra*. TCM Indications: See *Gentiana scabra*. Isolated compounds: 1020, 8304.
- T2939 *Gentiana turkestanorum* (Gentianaceae); TU ER QI SI TAN LONG DAN; Turkestan Gentian\*. Isolated compounds: 8292, 8293, 8295.
- T2940 *Gentianella nitida* (Gentianaceae); GUANG LIANG JIA LONG DAN; Shining Gentianella\*. Isolated compounds: 1019, 4845.
- T2941 *Gentianopsis paludosa* (Gentianaceae); SHI SHENG BIAN LEI; Swampy Gentianopsis. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Common cold with fever, hepatitis, cholecystitis, nephropylitis, red eyes with gall, infant diarrhea, swelling toxin of sore and boil. Isolated compounds: 13137, 22270.
- Gerardia japonica* = *Phtheiospermum japonicum*
- T2942 *Geraea canescens*. Isolated compounds: 21711, 21857.
- T2943 *Geranium nepalense* (Geraniaceae); NI BO ER LAO GUAN CAO; Nepal Cranesbill. Used part: aerial parts. TCM Effects: See *Geranium wilfordii*. TCM Indications: See *Geranium wilfordii*. Isolated compounds: 12018.
- T2944 *Geranium pratense* (Geraniaceae); CAO YUAN LAO GUAN CAO; Meadow Cranesbill. Used part: aerial parts. TCM Effects: See *Geranium wilfordii*. TCM Indications: See *Geranium wilfordii*. Isolated compounds: 1047, 3490, 5519, 6853, 8095, 8109.
- T2945 *Geranium pratense* ssp. *funitimum* (Geraniaceae); QU YU CAO DI LAO GUAN CAO. Isolated compounds: 3550, 15178.
- T2946 *Geranium robertianum* (Geraniaceae); XIAN XI LAO GUAN CAO; Robert Cranesbill. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, sprain and contusion, swollen welling abscess, sore and boil, measles papules, prolapse of uterus. Isolated compounds: 16836.
- T2947 *Geranium sibiricum* (Geraniaceae); SHU ZHANG LAO GUAN CAO; Siberian Cranesbill. Used part: aerial parts. TCM Effects: See *Geranium wilfordii*. TCM Indications: See *Geranium wilfordii*. Isolated compounds: 6757, 8095.
- T2948 *Geranium* sp. (Geraniaceae). Isolated compounds: 8311.
- T2949 *Geranium wilfordii* (Geraniaceae); LAO GUAN CAO; Wilford Cranesbill. Equivalent plant: *Erodium stephanianum*, *Geranium sibiricum*, *Geranium nepalense*, *Geranium pratense*. Used part: aerial parts. TCM Effects: To dispel wind-damp, free channels and network vessels, check dysentery and diarrhea. TCM Indications: Wind-damp impediment pain, hypertonicity and numbness, aching sinews and bones, diarrhea and dysentery. Isolated compounds: 10887.
- T2950 *Gerbera anandria* [Syn. *Leibnitzia anandria*] (Asteraceae); DA DING CAO; Gerbera. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Lung heat cough, damp-heat diarrhea dysentery, heat strangury, pain in joints due to rheumatism, swelling toxin of welling abscess and boil, ulcer of lower limb, snake or insect bites, bleeding due to external injury. Isolated compounds: 5918, 5994, 8333, 8334, 14255, 14256.
- T2951 *Gerbera jamesonii* (Asteraceae); FU LANG HUA; Flameray Gerbera. Isolated compounds: 1102, 22465.
- T2952 *Gerbera piloselloides* (Asteraceae); MAO DA DING CAO; Pilose Gerbera. Used part: root. TCM Effects: See *Tylophora ovata*. TCM Indications: See *Tylophora ovata*. Isolated compounds: 4530, 5142, 5396, 5397, 10254, 10646, 17366, 17367.
- T2953 *Gerronema* spp. Isolated compounds: 8360, 8361, 8362, 8363, 8364, 8365.
- T2954 *Getonia floribunda* (Combretaceae); Nguang-Chum; Duang-Sum (local names). Isolated compounds: 3940, 3941.
- T2955 *Geum japonicum* (Rosaceae); SHUI YANG MEI; Japanese Avens. Used part: whole herb. TCM Effects: To supplement vacuity and boost kidney, quicken blood and resolve toxin. TCM Indications: Exterior vacuity and common cold, dizziness and dim vision, lassitude in limbs, emission, impotence, cough with blood ejection, vacuity cold and abdominal pain, menstrual disorder, swelling of sores, fracture. Isolated compounds: 6178, 8250, 8263, 15539, 20910.

- T2956 *Geum japonicum* (Rosaceae); SHUI YANG MEI GEN; Japanese Avens Root. Used part: root. TCM Effects: To supplement vacuity and boost kidney, quicken blood and resolve toxin. TCM Indications: wind-cold common cold, diarrhea and dysentery, kidney vacuity dizziness. Isolated compounds: 8250.
- T2957 *Geum* sp. (Rosaceae). Isolated compounds: 15477.
- T2958 *Geum urbanum* (Rosaceae); XIANG CAO SHUI YANG MEI; Herb Bennet. Isolated compounds: 18265.
- T2959 *Gibberella fujikuroi* TENG CANG CHI MEI. Isolated compounds: 272, 5872, 5873, 10084, 21725.
- T2960 *Gibberella zeae* DAO CHI MEI JUN. Isolated compounds: 22974.
- T2961 *Ginkgo biloba* (Ginkgoaceae); BAI GUO; Ginkgo Nut. Used part: nut. TCM Effects: To constrain lung and settle asthma, check turbid vaginal discharge, reduce urine. TCM Indications: AD syndrome, primary degenerative dementia of Alzheimer disease, multi-infarct dementia, improving cognitive function in elderly dementia patients, stable intermittent claudication, cerebrovascular insufficiency diseases, cough with profuse phlegm, vaginal discharge, enuresis and frequent urination. Isolated compounds: 1030, 1128, 1129, 1130, 1845, 2379, 2380, 3140, 3188, 3209, 3308, 3316, 3435, 6853, 6867, 7882, 8102, 8401, 8403, 8404, 8405, 8407, 9202, 9718, 11648, 12020, 12891, 13823, 13858, 15659, 15664, 15935, 17931, 18317, 18421, 18834, 19087, 19805, 19983, 20369.
- T2962 *Ginkgo biloba* (Ginkgoaceae); BAI GUO GEN; Ginkgo Root. Used part: root. TCM Effects: To boost *qi* and supplement vacuity. TCM Indications: Emission, enuresis, frequent urination at night, vaginal discharge, stone strangury. Isolated compounds: 8404, 8405, 8406, 8408.
- T2963 *Ginkgo biloba* (Ginkgoaceae); BAI GUO SHU PI; Ginkgo Bark. Used part: bark. TCM Effects: To boost *qi* and supplement vacuity. TCM Indications: Copper coin lichen, psoriasis. Isolated compounds: 2378.
- T2964 *Ginkgo biloba* (Ginkgoaceae); BAI GUO YE; Ginkgo Leaf. Used part: leaf. TCM Effects: To quicken blood and nourish heart, constrain lung and astringe intestines. TCM Indications: Coronary heart disease, angina pectoris, hypercholesterolemia, Parkinson's disease, peripheral arterial diseases, chest impediment and heart pain, cough of phlegm asthma, diarrhea and dysentery, vaginal discharge, emission, retinal insufficiency syndrome. Isolated compounds: 1128, 1476, 1935, 2376, 2379, 6854, 7820, 8098, 8401, 8402, 8403, 8404, 8405, 8406, 9389, 11439, 11440, 11642, 11648, 11654, 11658, 11669, 12020, 12032, 12033, 12053, 12082, 15525, 15659, 15668, 18317, 18335, 18336, 18365, 18411, 19514, 19757, 20561, 20565.
- T2965 *Gladiolus* sp. (Iridaceae). Isolated compounds: 16781.
- T2966 *Glaucium corniculatum* (Papaveraceae); XIAO JIAO HAI YING SU; Black-spot Hornpoppy. Isolated compounds: 4106.
- T2967 *Glaucium davum* (Papaveraceae); HUANG HUA HAI YING SU; Yellowflower Hornpoppy\*. Isolated compounds: 8513.
- T2968 *Glaucium fimbriigerum* (Papaveraceae); HAI YING SU; Ciliate Hornpoppy\*. Used part: fruit. TCM Effects: To settle pain and suppress cough. Isolated compounds: 4106.
- T2969 *Glaucium flavum* (Papaveraceae); HUANG HAI YING SU; Yellow Hornpoppy\*. Isolated compounds: 2734, 4923, 7996.
- T2970 *Glaucium oxylobum* (Papaveraceae); JIAN LIE HAI YING SU; Acutelobed Hornpoppy. Isolated compounds: 16339.
- T2971 *Glaucium pulchrum* (Papaveraceae); MEI LI HAI YING SU; Beautiful Hornpoppy\*. Isolated compounds: 2734.
- T2972 *Glaucium* spp. (Papaveraceae). Isolated compounds: 3498.
- T2973 *Glechoma longituba* (Lamiaceae); JIN XIAN CAO; Longtube Ground Ivy. Used part: aerial parts. TCM Effects: To disinhibit damp and free strangury, clear heat and resolve toxin, dissipate stasis and disperse swelling, lower blood pressure. TCM Indications: Heat strangury, stone strangury, damp-heat jaundice, swelling pain of welling abscess and sore, knocks and falls. Isolated compounds: 11602, 13774, 13775, 17400, 18190, 20995.
- T2974 *Glechoma lungituba* (Lamiaceae); LIAN QIAN CAO. Used part: whole herb. TCM Effects: To disinhibit damp and free strangury, clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Heat strangury, stone strangury, damp-heat jaundice, swelling and pain of sore and welling abscess, knocks and falls. Isolated compounds: 22270.
- T2975 *Gleditsia delavayi* (Fabaceae); YUN NAN ZAO JIA; Delacay Honeylocust. Used part: fruit. TCM Effects: To break phlegm and open orifices, resolve toxin and kill worms. TCM Indications: Wind stroke, epilepsy, phlegm reversal with stupor, cough asthma qith phlegm-drool and atrophicexuberant, malign sore. Isolated compounds: 8528.
- T2976 *Gleditsia fera* (Fabaceae); HUA NAN ZAO JIA; South China Honeylocust. Used part: fruit. TCM Effects: To break phlegm and open orifices, resolve toxin and kill worms. TCM Indications: Wind stroke (apoplexy), epilepsy, phlegm reversal with stupor, cough asthma qith phlegm-drool and atrophicexuberant, malign sore. Isolated compounds: 6689.
- Gleditsia horrida* = *Gleditsia sinensis*
- T2977 *Gleditsia monosperma* (Fabaceae); DAN ZHONG ZAO JIA; Monoseed Honeylocust\*. Isolated compounds: 18857.
- T2978 *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (Fabaceae); ZAO JIA; Chinese Honeylocust. Used part: fruit. TCM Effects: To relieve cough and dispel phlegm, open orifices, kill worms and dissipate binds. TCM Indications: Cough of phlegm asthma, wind stroke clenched jaw, phlegm-drool and congesting lung, clouded spirit with loss of speech, epilepsy, throat impediment, urinary and fecal stoppage, swollen welling abscess, scab and lichen. Isolated compounds: 6689, 8526, 8527, 8528, 8529, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8537, 8538, 8539, 8540, 8541, 8542, 8543, 8544, 11773, 16050, 20369, 21511.
- T2979 *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (Fabaceae); ZAO JIA CI; Chinese Honeylocust Thorn. Used part: thorn. TCM Effects: To disperse swelling and outthrust pus, track wind, kill worms. TCM Indications: Swelling toxin of welling abscess and flat abscess, scrofula, leprosy, sore and papules with intractable lichen, postpartum scant milk, retention of afterbirth. Isolated compounds: 7956, 19983, 20355, 20365.
- T2980 *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (Fabaceae); ZAO JIA GEN PI; Chinese Honeylocust Root-bark. Used part: root cortex. TCM Effects: To resolve toxin and dissipate binds, dispel wind and kill worms. TCM Indications: Scrofula, innominate toxin swelling,



- wind-damp bone pain, scab and lichen, malign sore. Isolated compounds: 21511.
- T2981 *Gleditsia sinensis* [Syn. *Gleditsia horrida*] (Fabaceae); ZAO JIA YE; Chinese Honeylocust Leaf. Used part: leaf. TCM Effects: To dispel wind and resolve toxin, engender hairs. TCM Indications: Wind sore. Isolated compounds: 21511.
- T2982 *Gleditsia triacanthos* (Fabaceae); SAN CI ZAO JIA; Honeylocust. Isolated compounds: 21511, 22122.
- T2983 *Glehnia littoralis* (Apiaceae); BEI SHA SHEN; Coastal Glehnia. Used part: root. TCM Effects: To nourish *yin* and clear lung, boost stomach and engender liquid. TCM Indications: Dry cough due to lung dryness, vacuity taxation hemoptysis, stomach *yin* insufficiency, fluid damage and thirst. Isolated compounds: 618, 1513, 2107, 2276, 2308, 2311, 2777, 2887, 3551, 3775, 4033, 4227, 5192, 5208, 6387, 6388, 7334, 7443, 7707, 7768, 8545, 8546, 8547, 10231, 10362, 10362, 10471, 10953, 11001, 11275, 11462, 11620, 11621, 11642, 11963, 13572, 13739, 13760, 13765, 13766, 16258, 16258, 16450, 17085, 17297, 18086, 18317, 19087, 19542, 19618, 19619, 20003, 20369, 21339, 22252, 22332, 22775, 22776.
- T2984 *Glinus lotoides* [Syn. *Mollugo lotoides*] (Aizoaceae); XING SU CAO; Stellate hair Carpetweed. Used part: whole herb. TCM Effects: To clear heat and transform damp, resolve toxin and disperse swelling. TCM Indications: Damp-heat diarrhea, common cold with cough, wind papules, sore and boil, red eyes with gall. Isolated compounds: 13004, 13005, 13006, 13007, 13008, 13009.
- T2985 *Globularia davisiana* (Globulariaceae). Isolated compounds: 4698.
- T2986 *Globularia* sp. (Globulariaceae). Isolated compounds: 3695.
- T2987 *Glochidion acuminatum* (Euphorbiaceae); JIAN JIAN SUAN PAN ZI; Acuminate Glochidion\*. Isolated compounds: 590, 8559, 8560, 8561, 8562, 8564, 11442.
- T2988 *Glochidion eriocarpum* (Euphorbiaceae); MAO GUO SUAN PAN ZI; Hairypod Glochidion\*. Used part: branch-leaf. TCM Effects: To clear heat and resolve toxin, dispel damp and relieve itch. TCM Indications: Lacquer sore, paddy field dermatitis (water ulcer), itchy skin, urticaria, eczema, burns, mastitis, acute gastroenteritis, dysentery. Isolated compounds: 8563, 8569, 8570, 13092, 13093, 13098.
- T2989 *Glochidion sphaerogynum* (Euphorbiaceae); YUAN GUO SUAN PAN ZI; Roundfruit Glochidion\*. Used part: branch-leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Common cold with fever, summerheat-heat and thirst, stomatitis, eczema, ulcerating sores. Isolated compounds: 8563, 8570.
- T2990 *Glochidion zeylanicum* (Euphorbiaceae); CHUI ZHU SUAN PAN ZI; Srilanka Glochidion. Isolated compounds: 2522, 8563, 8565, 8566, 8567, 8568, 8569, 8570, 8571, 8572, 8573, 8574, 13092, 13644, 13645.
- T2991 *Gloeophyllum odoratum*. Isolated compounds: 8575, 14054, 14589.
- T2992 *Gloeophyllum* sp. Isolated compounds: 8576, 8577, 8578, 8579, 8580, 10732.
- T2993 *Gloeostereum incarnatum* (Meruliaceae); YU ER; Incarnate Gloeostereum. Used part: sporocarp. TCM Effects: To clear heat and disinherit damp, cool blood and check diarrhea. TCM Indications: Red and white dysentery. Isolated compounds: 8581.
- T2994 *Gloiopeltis furcata* (Endocladiaceae); LU JIAO CAI; Furcate Gloiopeltis Frond. Used part: frond. TCM Effects: To clear heat, disperse food, transform phlegm. TCM Indications: Taxation fever, steaming bone, diarrhea, dysentery, wind-damp impediment pain, cough, goiter and tuberculosis, hemorrhoids. Isolated compounds: 702, 1269, 14453, 14817.
- T2995 *Gloriosa superba* (Liliaceae); JIA LAN; Lovely Gloriosa. Used part: rhizome. TCM Indications: Hemiplegia, general arthralgia, convulsion due to high fever, whole body swelling. Isolated compounds: 3911.
- T2996 *Glossocalyx brevipes* (Monimiaceae). Isolated compounds: 8321, 14461, 14462.
- T2997 *Glossocarya calcicola*. Isolated compounds: 2948, 2950, 2952.
- T2998 *Glycine max* (Fabaceae); DA DOU; Soybean. Used part: yellow seed. TCM Effects: To loosen center and induce stagnation, fortify spleen and disinherit water, resolve toxin and disperse swelling. TCM Indications: Food accumulation diarrhea, abdominal distention and torpid intake, swelling toxin of sore and welling abscess, spleen vacuity edema, bleeding due to external injury. Isolated compounds: 361, 398, 2384, 4604, 4606, 5343, 5580, 5621, 8278, 8282, 8818, 8819, 18700, 18701, 20117, 20122, 20129.
- T2999 *Glycine max* (Fabaceae); DOU YOU; Soybean Oil. Used part: seed oil. TCM Effects: To resolve toxin and kill worms, moisten intestines and free stool. TCM Indications: Ileus, constipation, scab and lichen. Isolated compounds: 361, 398, 4468, 4473, 20237.
- T3000 *Glycine max* (Fabaceae); HEI DA DOU; Black Soybean. Used part: black seed. TCM Effects: To quicken blood and disinherit water, dispel wind and resolve toxin, fortify spleen and boost kidney. TCM Indications: Edema distention fullness, wind toxin and beriberi, jaundice edema, kidney vacuity lumbago, enuresis, wind impediment and hypertonicity of sinews, postpartum wind tetany, clenched jaw, swelling toxin of welling abscess and sore, drug poisoning, food poisoning. Isolated compounds: 552, 1594, 2845, 3040, 4473, 4604, 7853, 8278, 8282, 8805, 8818, 10600, 19983, 20041, 20115, 20116, 20118, 20119, 20120, 20121, 20122, 20123, 20124, 20125, 20126, 20127, 20129, 20130, 20131, 20146, 20237, 20369, 20566, 22556, 22844.
- T3001 *Glycine max* (Fabaceae); HEI DA DOU PI; Black Soybean Spermoderm. Used part: spermoderm. TCM Effects: To nourish *yin* and calm liver, dispel wind and resolve toxin. TCM Indications: *Yin* vacuity and heat vexation, night sweating, dizziness, headache, wind impediment, damp toxin, welling abscess. Isolated compounds: 3594, 5027, 12735.
- T3002 *Glycine max* (Fabaceae); HEI DA DOU YE; Black Soybean Leaf. Used part: leaf. TCM Effects: To disinherit water and free strangury, cool blood and resolve toxin. TCM Indications: Blood strangury, snake bite. Isolated compounds: 552, 553, 7853.
- T3003 *Glycine max* (Fabaceae); JIANG; Soybean Paste. Used part: seed of beans. TCM Effects: To eliminate heat, resolve toxin. TCM Indications: Bee sting, insect bites. Isolated compounds: 2845, 12252, 15528, 18230, 22158.
- T3004 *Glycine* sp. (Fabaceae). Isolated compounds: 1866.
- T3005 *Glycosmis chlorosperma* (Rutaceae); LV ZI SHAN XIAO JU. Isolated compounds: 8310, 10138, 10139, 10140, 14715, 14716, 19169, 19170.
- T3006 *Glycosmis citrifolia* (Rutaceae); SHAN XIAO JU; Citrusleaf

- Glycosmis. Used part: root and leaf. TCM Effects: To dispel wind and resolve exterior, transform phlegm and relieve cough, rectify *qi* and disperse accumulation, dissipate stasis and disperse swelling. TCM Indications: Common cold with cough, food stagnation with torpid intake, food accumulation abdominal pain, mounting *qi* (hernia), painful swelling from knocks and falls. Isolated compounds: 3153, 3154, 3155, 8820, 8821, 8848.
- T3007 *Glycosmis montana* (Rutaceae); MENG DA NA SHAN XIAO JU; Montana Glycosmis\*. Isolated compounds: 8804, 8822, 10473.
- T3008 *Glycosmis pentaphylla* (Rutaceae); JIU BING YE; Malay Glycosmis. Isolated compounds: 3153, 3154, 3155, 8851, 8852, 8853, 19669.
- T3009 *Glycosmis pseudoracemosa* (Rutaceae); JIA ZONG ZHUANG HUA XU SHAN XIAO JU; Pseudo-racemose Glycosmis\*. Isolated compounds: 19171.
- T3010 *Glycosmis stenocarpa* (Rutaceae); XIA GUO SHAN XIAO JU GEN; Narrowfruit Glycosmis Root\*. Isolated compounds: 2479, 15117, 15118.
- T3011 *Glycyrrhiza aspera* (Fabaceae); CU MAO GAN CAO; Hirsute Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 4924, 6307, 8500, 8796, 8797, 8798, 8799, 8800, 8801, 8802, 8803, 8839, 8841, 8846, 11443, 11444, 11505, 12771, 12775, 12795, 12913, 19695, 21451.
- T3012 *Glycyrrhiza echinata* (Fabaceae); JI GAN CAO; Echinate Licorice\*. Isolated compounds: 6685, 12774, 17836.
- T3013 *Glycyrrhiza glabra* (Fabaceae); GUANG GUO GAN CAO; Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 49, 259, 1886, 5144, 5725, 5726, 5729, 5730, 5731, 6024, 6025, 6307, 7484, 7883, 7885, 8289, 8487, 8487, 8490, 8493, 8496, 8497, 8498, 8499, 8500, 8501, 8841, 8846, 9557, 9558, 9985, 10149, 10152, 10153, 10247, 10499, 11441, 11504, 11505, 11642, 11697, 12152, 12153, 12154, 12155, 12156, 12751, 12752, 12753, 12754, 12755, 12757, 12767, 12772, 12793, 12903, 12907, 12908, 12913, 12914, 14025, 17403, 18001, 19463, 22244, 22667.
- T3014 *Glycyrrhiza glabra* var. *typica* (Fabaceae); OU YA GAN CAO; Typical Licorice\*. Isolated compounds: 9558, 10149, 13941, 17049.
- T3015 *Glycyrrhiza inflata* (Fabaceae); ZHANG GUO GAN CAO; Inflated Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 1519, 1597, 1935, 5144, 5405, 5895, 6024, 6025, 7885, 8501, 8835, 8836, 8841, 8846, 11037, 11038, 11504, 11505, 11697, 12766, 12767, 12768, 12769, 12770, 12774, 12776, 12783, 12789, 12790, 12908, 12909, 12910, 12913, 17836, 19463, 19983, 22244.
- T3016 *Glycyrrhiza kansuensis* (Fabaceae); HUANG GAN CAO; Yellow Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 2455, 7637, 7885, 8499, 8501, 8840, 8841, 8846, 8847, 11505, 11772, 12149, 12766, 12913, 13639, 17169, 19983, 20087, 22243, 22244, 22519.
- T3017 *Glycyrrhiza lepidota* (Fabaceae); MEI ZHOU GAN CAO; Scale Licorice\*. Isolated compounds: 8487, 8548, 8549, 8550, 8551, 17831.
- T3018 *Glycyrrhiza pallidiflora* (Fabaceae); CI GUO GAN CAO; Pricklyfruit Licorice. Used part: fruit. TCM Effects: To promote lactation. TCM Indications: Postpartum scant milk. Isolated compounds: 6254, 7883, 8850, 12756, 12759, 12760, 12761, 12762, 13286, 16545, 16546.
- T3019 *Glycyrrhiza* sp. (Fabaceae). Isolated compounds: 3574, 5835, 6401, 7333, 8144, 8145, 8552, 8837, 10335, 11446, 11697, 12331, 12751, 12756, 12758, 12759, 12763, 12773, 12796, 13281, 15525, 16173, 17046, 17403, 17825, 17826, 19695, 22519, 22743.
- T3020 *Glycyrrhiza* spp. (Fabaceae). Isolated compounds: 11772, 12779, 12908.
- T3021 *Glycyrrhiza squamulosa* (Fabaceae); YUAN GUO GAN CAO; Roundfruit Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 20250.
- T3022 *Glycyrrhiza uralensis* (Fabaceae); GAN CAO; Ural Licorice. Equivalent plant: *Glycyrrhiza inflata*, *Glycyrrhiza glabra*, *Glycyrrhiza kansuensis*, *Glycyrrhiza aspera*, *Glycyrrhiza yunnanensis*, *Glycyrrhiza squamulosa*. Used part: root and rhizome. TCM Effects: To supplement center and boost *qi*, relax tension and relieve pain, moisten lung and relieve cough, drain fire and resolve toxin, regulate function among herbs. TCM Indications: Hypocorticosteroidism [= Addison's disease], gastric ulcer, bronchitis, tuberculosis, peptic ulcer, hepatitis A, spleen-stomach vacuity, fatigue hypodynamia, palpitation and shortness of breath, cough with profuse phlegm, pain in stomach duct and abdomen, acute spasm in limbs, swelling toxin of welling abscess and sore. Isolated compounds: 403, 2455, 4108, 5405, 6024, 6025, 6307, 6402, 7422, 7883, 7885, 8134, 8135, 8136, 8137, 8138, 8139, 8140, 8142, 8143, 8500, 8553, 8764, 8795, 8833, 8838, 8839, 8841, 8842, 8843, 8844, 8845, 8846, 8854, 8855, 8862, 9557, 9558, 10149, 11444, 11490, 11504, 11505, 11576, 11642, 11697, 11746, 12150, 12151, 12764, 12765, 12771, 12777, 12778, 12780, 12782, 12783, 12784, 12785, 12786, 12787, 12788, 12789, 12790, 12791, 12792, 12793, 12794, 12795, 12908, 12911, 12912, 12913, 13107, 13941, 14185, 14466, 14474, 14501, 14507, 14508, 14774, 15265, 15414, 15430, 15471, 17049, 19087, 19463, 19884, 19983, 21069, 21075, 21594, 21694, 22238, 22239, 22240, 22241, 22242, 22243, 22244, 22245.
- T3023 *Glycyrrhiza yunnanensis* (Fabaceae); YUN NAN GAN CAO; Yunnan Licorice. Used part: root and rhizome. TCM Effects: See *Glycyrrhiza uralensis*. TCM Indications: See *Glycyrrhiza uralensis*. Isolated compounds: 5895, 8841, 8856, 8857, 8858, 8859, 8860, 8861, 11504, 13286, 13959, 13960, 19983, 22940, 22941, 22942, 22943, 22944, 22945.
- T3024 *Gmelina arborea* (Verbenaceae); YUN NAN SHI ZI; Malay Bushbeech. Isolated compounds: 8863, 16734.
- T3025 *Gmelina philippensis* (Verbenaceae); FEI LV BIN SHI ZI; Philippine Bushbeech\*. Isolated compounds: 2234, 3306, 5381, 5382, 5388, 5389, 5390, 6952, 8234, 8277, 8864, 13892, 13893, 18694, 19104, 21544.
- T3026 *Gnaphalium affine* [Syn. *Gnaphalium multiceps*] (Asteraceae); SHU QU CAO; Cudweed. Used part: whole herb. TCM Effects: To suppress cough and transform phlegm, dispel wind and dissipate cold. TCM Indications: Cough with profuse phlegm, asthma, wind-cold common cold, pain in sinews and bones, vaginal discharge, welling abscess and open sore. Isolated compounds: 13145.

- T3027 *Gnaphalium gaudichaudianum* (Asteraceae); A GEN TING SHU QU CAO; Argentine Cudweed\*. Isolated compounds: 17373.  
*Gnaphalium multiceps* = *Gnaphalium affine*
- T3028 *Gnetum gnemon* (Gnetaceae); XIAN ZHOU MAI MA TENG; Spinach Jointfir. Isolated compounds: 8866, 8867, 8868, 8869, 8870, 8871, 8872, 8873, 8874, 8876, 8880, 9779, 20505.
- T3029 *Gnetum gnemonoides* (Gnetaceae); MA LAI XI YA MAI MA TENG; Spinach-like Jointfir. Isolated compounds: 8875, 8877, 8880, 9779.
- T3030 *Gnetum hainanense* (Gnetaceae); HAI NAN MAI MA TENG; Hainan Jointfir. Isolated compounds: 8882, 8883, 8884, 8885, 8886, 8887, 8888, 8889, 8890, 8891.  
*Gnetum indicum* = *Gnetum parvifolium*
- T3031 *Gnetum latifolium* (Gnetaceae); KUAN YE MAI MA TENG; Broadleaf Jointfir. Isolated compounds: 12546.
- T3032 *Gnetum montanum* f. *megalocarpum* (Gnetaceae); DA ZI MAI MA TENG; Bigseed Jointfir. Isolated compounds: 8893, 8894, 8895, 8896.
- T3033 *Gnetum parvifolium* [Syn. *Gnetum indicum*] (Gnetaceae); XIAO YE MAI MA TENG; Smallleaf Jointfir. Used part: stem, leaf or root. TCM Effects: To dispel wind and eliminate damp, stanch bleeding and dissipate stasis, relieve cough and transform phlegm. TCM Indications: Wind-damp impediment pain, lumbago, crane's knee wind, knocks and falls, ulcerative bleeding, chronic trachitis. Isolated compounds: 5067, 5997, 8892, 9779, 11672, 16688, 16689, 16690, 16691, 18643.
- T3034 *Gnetum pendulum* (Gnetaceae); CHUI ZI MAI MA TENG; Pendentseed Jointfir. Isolated compounds: 8897, 8898.
- T3035 *Gnetum ula* (Gnetaceae); YIN DU MAI MA TENG; India Jointfir. Isolated compounds: 8878, 8892.
- T3036 *Gnidia involucrata* (Thymelaeaceae); ZONG BAO GE NI DI MU. Isolated compounds: 16839, 21766, 22935.
- T3037 *Gnidia lamprantha* (Thymelaeaceae); LIANG HUA GE NI DI MU. Isolated compounds: 15999.
- T3038 *Gnidia latifolia* (Thymelaeaceae); KUAN YE GE NI DI MU. Isolated compounds: 15990.
- T3039 *Gnidia polycephala* (Thymelaeaceae); DUO TOU GE NI DI MU. Isolated compounds: 8757, 14470.
- T3040 *Gomphrena globosa* (Amaranthaceae); QIAN RI HONG; Globeamaranth. Used part: inflorescence or herb. TCM Effects: To suppress cough and calm asthma, clear liver and brighten eyes, resolve toxin. TCM Indications: Cough, asthma, pertussis, infant night crying, red eyes with gall, liver heat and dizziness, headache, dysentery, sore and boil. Isolated compounds: 1013, 8927, 8928, 8929, 8930, 8931, 11207, 20434.
- T3041 *Goniothalamus amuyon* (Annonaceae); TAI WAN GE NA XIANG; Taiwan Goniothalamus. Isolated compounds: 1696, 3555, 3695, 5179, 5179, 5180, 5532, 6201, 8932, 8933, 8934, 8935, 8936, 8938, 8947, 8947, 8948, 8949, 8950, 12917, 13258, 13943, 17409, 19983, 20369.
- T3042 *Goniothalamus arvensis* (Annonaceae); TIAN YE GE NA XIANG; Field Goniothalamus\*. Isolated compounds: 241, 311, 1008.
- T3043 *Goniothalamus cardiopetalus* (Annonaceae); XIN XING BAN GE NA XIANG; Cardia-petal Goniothalamus\*. Isolated compounds: 3189.
- T3044 *Goniothalamus cheliensis* (Annonaceae); GE NA XIANG; Cheliensis Goniothalamus. Isolated compounds: 3504, 3505, 3506, 8939, 8940, 8941, 8942, 8943, 8944.
- T3045 *Goniothalamus gardneri* (Annonaceae); CHANG YE GE NA XIANG; Longleaf Goniothalamus. Isolated compounds: 5479, 5821, 5824, 7818, 8232, 8233, 10787, 15285, 21770, 22067.
- T3046 *Goniothalamus giganteus* (Annonaceae); DA GE NA XIANG; Big Goniothalamus\*. Isolated compounds: 1008, 8381, 18240, 18249.
- T3047 *Goniothalamus griffithii* (Annonaceae); DA HUA GE NA XIANG; Bigflower Goniothalamus. Isolated compounds: 404, 405, 1049, 6183, 8937, 8947, 9001, 9002, 9004, 9005, 9006, 17403.
- T3048 *Goniothalamus howii* (Annonaceae); HAI NAN GE NA XIANG; Hainan Goniothalamus. Isolated compounds: 9654, 9655.
- T3049 *Goniothalamus leiocarpus* (Annonaceae); JIN PING GE NA XIANG; Leiocarpus Goniothalamus. Isolated compounds: 1313, 4089, 8381, 8947, 15099.
- T3050 *Goniothalamus* sp. (Annonaceae). Isolated compounds: 3503, 8945, 9778, 13547, 13548, 13549.
- T3051 *Goniothalamus thwaitesii* (Annonaceae). Isolated compounds: 1339, 13628.
- T3052 *Gonystylus keithii* (Thymelaeaceae); KAI TE LENG ZHU MU; Kaith Ramin\*. Isolated compounds: 16408, 16409.
- T3053 *Gorgoniae suberogorgia* (Gorgoniidae); LIU SHAN HU; Gorgonian *Gorgoniae suberogorgia*. Isolated compounds: 20440.
- T3054 *Gossypium barbadense* (Malvaceae); HAI DAO MIAN; Barbados Cotton. Used part: tomentum of seed. TCM Effects: See *Gossypium herbaceum*. TCM Indications: See *Gossypium herbaceum*. Isolated compounds: 8967.
- T3055 *Gossypium herbaceum* (Malvaceae); MIAN HUA; Levant Cotton. Equivalent plant: *Gossypium hirsutum*, *Gossypium barbadense*. Used part: tomentum of seed. TCM Effects: To stanch bleeding. TCM Indications: Blood ejection, hematochezia, flooding, bleeding due to external injury. Isolated compounds: 2318, 8967, 9568, 11238, 11642, 12027, 19187.
- T3056 *Gossypium herbaceum* (Malvaceae); MIAN HUA GEN; Levant Cotton Root. Used part: root cortex. TCM Effects: To relieve cough and calm asthma, free menstruation and relieve pain. TCM Indications: Cough, asthma, bronchitis, menstrual disorder, flooding and spotting. Isolated compounds: 117, 6232, 8967, 9344, 13944, 13946.
- T3057 *Gossypium herbaceum* (Malvaceae); MIAN ZI YOU; Levant Cotton Oil. Used part: seed oil. TCM Effects: To resolve toxin and kill worms. TCM Indications: Malign sore, scab and lichen. Isolated compounds: 8967, 13944.
- T3058 *Gossypium hirsutum* [Syn. *Gossypium mexicanum*] (Malvaceae); LU DI MIAN; Upland Cotton. Used part: tomentum of seed. TCM Effects: See *Gossypium herbaceum*. TCM Indications: See *Gossypium herbaceum*. Isolated compounds: 36, 1866, 8967, 9344, 12432, 17089, 18409, 20392.
- T3059 *Gossypium indicum* (Malvaceae); YIN DU MIAN; Bluntleaf Cotton. Isolated compounds: 8965, 11238.  
*Gossypium mexicanum* = *Gossypium hirsutum*
- T3060 *Gossypium sturtianum* var. *nandewarene* (Malvaceae); NAN DE WA MIAN; Nandewa Cotton\*. Isolated compounds: 17056.
- T3061 *Gratiola officinalis* (Scrophulariaceae); YAO SHUI BA JIAO; Gratiola. Isolated compounds: 4320, 4323.
- T3062 *Gratiola* sp. (Scrophulariaceae). Isolated compounds: 4319.

- T3063 *Grevillea robusta* (Proteaceae); YIN HUA; Robust Silk Oak. Used part: leaf and flower. TCM Effects: To clear heat and disinhibit *qi*, quicken blood and relieve pain. TCM Indications: Knocks and falls. Isolated compounds: 8997, 8998, 8999, 9000, 18877, 18877, 18878, 18879, 18880.
- T3064 *Grevillea* spp. (Proteaceae). Isolated compounds: 8997.  
*Grewia microcos* = *Microcos paniculata*
- T3065 *Grindelia* sp. (Asteraceae). Isolated compounds: 21507.
- T3066 *Gryllus chinensis* (Gryllidae); XI SHUAI; Chinese Cricket. Used part: dried body. TCM Effects: To disinhibit urine. TCM Indications: Urinary stoppage, edema, ascites. Isolated compounds: 12200.
- T3067 *Guajacum officinale* (Zygophyllaceae); YU CHUANG MU; Lignum-vitae. Isolated compounds: 9038, 15741.
- T3068 *Guarea rhopalocarpa* (Meliaceae). Isolated compounds: 10310, 12487, 19234, 19235, 19542, 20369.
- T3069 *Guatteria amplifolia* (Annonaceae); DA YE GUA TAI MU. Isolated compounds: 15780, 22818.
- T3070 *Guatteria boliviana* (Annonaceae). Isolated compounds: 1460, 8004, 9072, 12497, 16604, 17146, 18187, 18188, 19753, 21390.
- T3071 *Guatteria dumetorum* (Annonaceae); JING JI GUA TAI MU. Isolated compounds: 4279, 15779.
- T3072 *Guioa crenulata* (Sapindaceae); New Caledonian Guioa\*. Isolated compounds: 4228, 4229, 4230, 4231.
- T3073 *Gunnera perpensa* (Haloragaceae); XUAN CHUI GEN NAI LA CAO. Isolated compounds: 10484, 10508, 14592.
- T3074 *Gutierrezia microcephala* (Asteraceae). Isolated compounds: 21711.
- T3075 *Gutierrezia* spp. (Asteraceae). Isolated compounds: 21857.
- T3076 *Gymnadenia albida* (Orchidaceae); BAI SHOU SHEN; European Gymnadenia. Isolated compounds: 16168.
- T3077 *Gymnadenia conopsea* (Orchidaceae); SHOU ZHANG SHEN; Conic Gymnadenia. Equivalent plant: *Coeloglossum viride*. Used part: tuber. TCM Effects: To relieve cough and calm asthma, fortify spleen and boost kidney, rectify *qi* and harmonize blood, relieve pain. TCM Indications: Cough and asthma due to lung vacuity, vacuity taxation with emaciation, neurasthenia, kidney vacuity, limp aching lumbus and knees, impotence, seminal efflux, frequent urination, chronic hepatitis, chronic diarrhea, blood loss, vaginal discharge, scant breast milk, knocks and falls. Isolated compounds: 2165, 2456, 2508, 5905, 9099, 9100, 9101, 9102, 9111, 9112, 9113, 9846, 9848, 13909, 13910, 14154, 14805, 17470.
- T3078 *Gymnadenia* sp. (Orchidaceae). Isolated compounds: 22336.
- T3079 *Gymnaster koraiensis* (Asteraceae); CHAO XIAN LUO WAN. Isolated compounds: 6918, 7951, 9104, 9105, 9106, 9107, 9108, 9109, 9382, 20237.
- T3080 *Gymnema sylvestre* (Asclepiadaceae); CHI GENG TENG; Australian Cowplant. Used part: root or twig. TCM Effects: To dispel wind and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, swelling pain in throat, scrofula, mammary welling abscess, sore and boil, eczema, innominate toxin swelling, poisonous snake bite. Isolated compounds: 2271, 2272, 8647, 8648, 9110, 12981, 16062, 17748, 17749, 20037, 22827.
- T3081 *Gymnopetalum integrifolium* (Cucurbitaceae); FENG GUA; Entireleaf Gymnopetalum. Isolated compounds: 339, 2686, 5386, 12214.
- T3082 *Gynocardia odorata* (Flacourtiaceae); MA DAN GUO; Fragrant Gynocardia. Used part: seed. TCM Effects: To dispel wind, eliminate damp, resolve toxin. TCM Indications: Leprosy, elephantiasis, skin diseases. Isolated compounds: 1465, 9114.
- T3083 *Gynostemma compressum* (Cucurbitaceae); BIAN GUO JIAO GU LAN; Flatfruit Gynostemma. Isolated compounds: 9094, 9095, 9096, 9097.
- T3084 *Gynostemma longipes* (Cucurbitaceae); CHANG GENG JIAO GU LAN; longstalk Gynostemma. Isolated compounds: 9098.
- T3085 *Gynostemma pentaphyllum* (Cucurbitaceae); JIAO GU LAN; Fiveleaf Gynostemma. Used part: whole herb. TCM Effects: To clear heat, supplement vacuity, resolve toxin, lower blood sugar levels, protect hepatic function. TCM Indications: Vacuity and hypodynamia, septicemia, hyperlipemia, viral hepatitis, chronic gastroenteritis, chronic trachitis. Isolated compounds: 520, 521, 522, 4487, 6331, 7427, 8423, 8425, 8427, 9115, 9116, 9117, 9118, 9119, 9120, 9124, 9125, 9126, 9127, 9128, 9129, 9130, 9131, 9132, 9133, 9134, 9135, 9136, 9137, 9138, 9139, 9140, 9141, 9142, 9143, 9144, 9145, 9146, 9147, 9148, 9149, 9150, 9151, 9152, 9153, 9154, 9155, 9156, 9157, 9158, 9159, 9160, 9161, 9162, 9163, 9164, 9165, 9166, 9167, 9168, 9169, 9170, 9171, 9172, 9173, 9174, 9175, 9176, 9177, 9178, 9179, 9180, 9181, 9182, 9958, 13439, 13443, 13444, 13444, 13446, 14415, 14416, 16092, 16093, 16428, 16433, 16594, 19087, 21091, 21092, 21101, 21102, 21103, 21104, 21700, 21701, 21702, 21743.
- T3086 *Gynostemma yixingense* (Cucurbitaceae); HUI GUO JIAO GU LAN; Rostratefruit Gynostemma. Isolated compounds: 8423, 9151, 9153, 11648, 22913, 22914.
- T3087 *Gynura elliptica* (Asteraceae); TUO YUAN SAN QI CAO; Elliptic Gynura\*. Isolated compounds: 9121, 9122.  
*Gynura japonica* = *Gynura segetum*
- T3088 *Gynura segetum* [Syn. *Gynura japonica*] (Asteraceae); SAN QI CAO; Gynura. Used part: leaf or whole herb. TCM Effects: To stanch bleeding, dissipate stasis, disperse swelling and relieve pain. TCM Indications: Blood ejection, spontaneous external bleeding, hemoptysis, hematochezia, flooding and spotting, bleeding due to external injury, dysmenorrhea, postpartum stasis stagnation abdominal pain, knocks and falls, wind-damp pain, welling abscess and flat abscess with clove sore, snake or insect bites. Isolated compounds: 383, 424, 2224, 3434, 6204, 9123, 9486, 9735, 9736, 19713, 19983, 19993, 20348, 20361, 20369, 21416, 22336.
- T3089 *Gypsophila acutifolia* (Caryophyllaceae); HUANG JIE GU DAN; Gypsophila. Used part: root. TCM Effects: To dissipate stasis and disperse swelling, engender flesh and relieve pain. TCM Indications: Knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 599.
- T3090 *Gypsophila oldhamiana* (Caryophyllaceae); XIA CAO; Oldham Gypsophila. Used part: root. TCM Effects: See *Gypsophila pacifica*. TCM Indications: See *Gypsophila pacifica*. Isolated compounds: 3927, 16026, 21039.
- T3091 *Gypsophila pacifica* (Caryophyllaceae); SHAN YIN CHAI HU; Pacific Gypsophila. Equivalent plant: *Silene jennisensis*, *Arenaria juncea*. Used part: root. TCM Effects: To clear vacuity heat, cool blood. TCM Indications: Yin vacuity tuberculosis, steaming bone tidal

fever, night sweating, child *gan* fever, enduring malaria. Isolated compounds: 9183, 9184.

*Gyrophora esculenta* = *Umbilicaria esculenta*

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- T3092 *Halenia corniculata* (Gentianaceae); HUA MAO; Corniculate Spurgentian. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Hepatitis, angitis, gastroenteritis, infective fever due to external injury, bleeding due to external injury. Isolated compounds: 10754, 10755, 10802, 22606.
- T3093 *Haliclona variclona* (Haliclonidae); Sponge *Haliclona variclona*. Isolated compounds: 17729.  
*Haloxylon articulatum* ssp. *scoparium* = *Hammada scoparia*
- T3094 *Haloxylon salicornicum* (Chenopodiaceae); YAN JIAO CAO SUO SUO. Isolated compounds: 9200, 9201.  
*Haloxylon scoparium* = *Hammada scoparia*
- T3095 *Hamamelis virginiana* (Hamamelidaceae); MEI ZHOU JIN LV MEI; Virginia Witch Hazel. Isolated compounds: 6923, 9202.
- T3096 *Hammada scoparia* [Syn. *Arthropytum scoparium*; *Haloxylon articulatum* ssp. *scoparium*; *Haloxylon scoparium*] (Chenopodiaceae); Rimth (in Tunisia). Isolated compounds: 11649, 11664, 11671.
- T3097 *Handelia trichophylla* (Asteraceae); TIAN SHAN SHI; Hairyleaf Handelia. Isolated compounds: 3076.
- T3098 *Hannoa undulata* (Simaroubaceae); BO YE KU MU; Undulate-leaf Quassia-wood\*. Isolated compounds: 22231.
- T3099 *Haplopappus foliosus*. Isolated compounds: 143, 9924.
- T3100 *Haplophyllum acutifolium* (Rutaceae); JIAN YE YUN XIANG CAO; Haplophyllum\*. Isolated compounds: 7830, 9223, 9225, 12374.
- T3101 *Haplophyllum glabrinum* (Rutaceae). Isolated compounds: 9224, 16910.
- T3102 *Haplophyllum hispanicum* (Rutaceae); XI BAN YA YUN XIANG CAO; Spanish Haplophyllum\*. TCM Effects: Anticarcinoma. Isolated compounds: 6491.
- T3103 *Haplophyllum patavinum* (Rutaceae). Isolated compounds: 1552, 6490, 11978, 13403, 16703, 22077.
- T3104 *Haplophyllum perforatum* (Rutaceae); DA YE YUN XIANG CAO; Perforated Haplophyllum. Isolated compounds: 6618, 7854, 9223, 9224, 16910.
- T3105 *Haplophyllum* sp. (Rutaceae). Isolated compounds: 7512, 12254.  
*Haplophyllum tuberculatum* = *Ruta tuberculata*
- T3106 *Harpagophytum procumbens* (Pedaliaceae); NAN FEI GOU MA; Devil's Claw. Used part: whole herb. TCM Effects: To relieve pain, eliminate inflammation, resolve heat. TCM Indications: Bronchial asthma, ileitis, ulcerative colitis, rheumatis, abnormal increase of lipoxigenase. Isolated compounds: 8, 306, 580, 2887, 3695, 3711, 4163, 7776, 9238, 11195, 16536, 21475.
- T3107 *Harpullia austro-caledonica* (Sapindaceae); NAN SU GE LAN JIA SHAN LUO; Southern-caledonian Tulipwood\*. Isolated compounds: 1553, 1554, 1555, 1559, 8055, 18702, 22835.
- T3108 *Harrisonia abyssinica* (Simaroubaceae); A BI XI NI YA NIU JIN GUO; Abyssinia Harrisonia\*. Isolated compounds: 5301, 14125.
- T3109 *Harrisonia perforata* (Simaroubaceae); NIU JIN GUO; Perforated Harrisonia. Used part: root. TCM Effects: To clear heat and interrupt malaria. TCM Indications: Malaria. Isolated compounds: 14125, 16912, 16913, 16914, 16915, 16916.
- T3110 *Harungana madagascariensis* (Clusiaceae); MA DAO HA NI MU; Madagascar Hani-wood\*. Used part: bark and leaf. TCM Indications: Hypertension (bark), hepatic disease and anemia (leaf). Isolated compounds: 9240, 9241, 9242, 9243.
- T3111 *Hedera colchica* (Araliaceae); QIU SHUI XIAN CHANG CHUN TENG; Colchicum Ivy\*. Isolated compounds: 3913, 3914, 9257, 9258.
- T3112 *Hedera helix* (Araliaceae); YANG CHANG CHUN TENG; English Ivy. Isolated compounds: 3340, 6756, 6772, 9275, 9276, 19316.
- T3113 *Hedera nepalensis* var. *sinensis* (Araliaceae); CHANG CHUN TENG; Chinese Ivy. Equivalent plant: *Hedera rhombea*. Used part: stem-leaf. TCM Effects: To dispel wind and disinherit damp, harmonize blood and resolve toxin. TCM Indications: Wind-damp impediment pain, paralysis, deviated eyes and mouth, spontaneous external bleeding, menstrual disorder, knocks and falls, swelling pain in throat, clove boil and swollen welling abscess, hepatitis, snake or insect bites. Isolated compounds: 2973, 9276, 11083, 11084, 11085.
- T3114 *Hedera pastuchowii* (Araliaceae). Isolated compounds: 16698, 16699, 16700, 16701, 16702.
- T3115 *Hedera rhombea* (Araliaceae); LING XING CHANG CHUN TENG; Japanese Ivy. Used part: stem-leaf. TCM Effects: See *Hedera nepalensis* var. *sinensis*. TCM Indications: See *Hedera nepalensis* var. *sinensis*. Isolated compounds: 19316.
- T3116 *Hedera* sp. (Araliaceae). Isolated compounds: 19545.
- T3117 *Hedera* spp. (Araliaceae). Isolated compounds: 12642.
- T3118 *Hedychium coronarium* (Zingiberaceae); TU QIANG HUO; Coronarius Gingerlily. Used part: rhizome. TCM Effects: To dispel wind and dissipate cold, effuse sweat and resolve exterior. TCM Indications: Headache, generalized pain, wind-damp pain in sinew and bone, knocks and falls. Isolated compounds: 4081, 4082, 4083, 4084, 4085, 4086, 7481, 9277, 9278, 9279, 9280, 9281, 9282, 10157, 10791, 12410, 15499.
- T3119 *Hedychium forrestii* (Zingiberaceae); YUAN BAN JIANG HUA; Forrest Gingerlily. Isolated compounds: 4081, 7914, 9277, 11343, 12418.
- T3120 *Hedychium spicatum* (Zingiberaceae); TU LIANG JIANG; Spiked Gingerlily. Used part: rhizome. TCM Effects: To warm stomach, dissipate cold, dry damp. TCM Indications: *Qi* pain, stomachache, abdominal pain, stomach cold pain, indigestion, malaria. Isolated compounds: 7474, 9277.
- T3121 *Hedychium yunnanense* (Zingiberaceae); DIAN JIANG HUA; Yunnan Gingerlily. Isolated compounds: 9277, 22946, 22947, 22948, 22949.
- T3122 *Hedyotis acutangula* (Rubiaceae); JIN CAO; Acuteangle Hedyotis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit urine. TCM Indications: Hepatitis, swelling pain in throat, red eyes with gall, urinary tract infection. Isolated compounds: 1616, 11234, 20711.
- T3123 *Hedyotis auricularia* (Rubiaceae); ER CAO; Auricled Hedyotis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and disperse swelling. TCM Indications: Common cold with

- fever, lung heat cough, swelling pain in throat, enteritis, dysentery, bleeding from hemorrhoids, flooding and spotting, poisonous snake bite, mastitis, swelling toxin of welling abscess and boil, eczema, knocks and falls. Isolated compounds: 2013.
- T3124 *Hedyotis capitellata* (Rubiaceae); XIAO TOU LIANG HOU CHA; Capitellate Hedyotis. Used part: whole herb. TCM Effects: To dissipate cold and interrupt malaria, nourish blood and free network vessels. TCM Indications: Wind-cold common cold, malaria, menstrual disorder, postpartum galactostasis, dry cough, lacquer sore, fracture with damage. Isolated compounds: 3132, 3133, 3134, 3135, 3629, 4479, 11330, 11363.
- T3125 *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*] (Rubiaceae); JIN MAO ER CAO; Goldhair Hedyotis. Used part: whole herb. TCM Effects: To clear heat, eliminate damp, soothe sinews and quicken blood. TCM Indications: Jaundice, edema, chyluria, dysentery, diarrhea, knocks and falls, innominate toxin swelling, mastitis. Isolated compounds: 325, 3629, 9283.
- T3126 *Hedyotis corymbosa* [Syn. *Oldenlandia corymbosa*] (Rubiaceae); SHUI XIAN CAO; Corymbose Hedyotis. Used part: whole herb with root. TCM Effects: See *Oldenlandia diffusa*. TCM Indications: See *Oldenlandia diffusa*. Isolated compounds: 8277, 20369.  
*Hedyotis diffusa* = *Oldenlandia diffusa*
- T3127 *Hedyotis nudicaulis* (Rubiaceae); LUO JING ER CAO; Nude-stem Eargrass\*. Isolated compounds: 15858, 15859, 15860.
- T3128 *Hedysarum multijugum* (Fabaceae); HONG HUA YAN HUANG QI; Redflower Sweetvetch. Used part: root. TCM Effects: To boost *qi* and secure exterior, disinhibit urine, draw toxin and expel pus, close sores and engender flesh. TCM Indications: Shortness of breath and palpitation, fatigue hypodynamia, spontaneous sweating and night sweating, enduring diarrhea, prolapse of rectum, prolapse of uterus, vacuity and edema, chronic nephritis, welling abscess and flat abscess. Isolated compounds: 5837.
- T3129 *Hedysarum polybotrys* (Fabaceae); DUO XU YAN HUANG QI; Manyraceme Sweetvetch. Used part: root. TCM Effects: To constrain sweat and secure exterior, supplement *qi* and disinhibit water, draw toxin and close sores. TCM Indications: *Qi* vacuity and hypodynamia, reduced food intake and sloppy stool, prolapse of rectum due to enduring diarrhea, hematochezia, flooding and spotting [=metrorrhagia and metrorrhagia], spontaneous sweating due to exterior vacuity, *qi* vacuity edema, blood vacuity with yellow complexion, enduring welling abscess and flat abscess. Isolated compounds: 1048, 9285.
- T3130 *Heimia myrtifolia* (Asteraceae); HUANG WEI; Myrtleleaf Heimia. Isolated compounds: 22433.
- T3131 *Helonium amarum* (Asteraceae); KU WEI DUI XIN JU; Bitterness Sneezeweed\*. Isolated compounds: 1012, 1768, 9289, 20963.
- T3132 *Helonium arizonicum* (Asteraceae); YA LI SANG NA DUI XIN JU; Arizona Sneezeweed\*. Isolated compounds: 11734.
- T3133 *Helonium aromaticum* (Asteraceae); FANG XIANG DUI XIN JU; Fragrant Sneezeweed\*. Isolated compounds: 1768, 9288.
- T3134 *Helonium autumnale* (Asteraceae); DUI XIN JU; Sneezeweed. Isolated compounds: 2026, 7836, 9288, 9290, 9564, 14822, 17558, 20963.
- T3135 *Helonium autumnale* var. *montanum* (Asteraceae); SHAN DI DUI XIN JU; Mountain Sneezeweed\*. Isolated compounds: 2026, 9288.
- T3136 *Helonium bigelovii* (Asteraceae); BI SHI DUI XIN JU; Bigelov Sneezeweed\*. Isolated compounds: 11734.
- T3137 *Helonium elegans* (Asteraceae); YA MEI DUI XIN JU; Elegant Sneezeweed\*. Isolated compounds: 20963.
- T3138 *Helonium mexicanum* (Asteraceae); MO XI GE DUI XIN JU; Mexico Sneezeweed\*. Isolated compounds: 14821.
- T3139 *Helonium microcephalum* (Asteraceae); XIAO TOU DUI XIN JU; Littlehead Sneezeweed. Isolated compounds: 9288, 11450, 14835, 14836, 14837.
- T3140 *Helonium puberulum* (Asteraceae); WEI MAO DUI XIN JU; Puberulent Sneezeweed\*. Isolated compounds: 20963.
- T3141 *Helonium tenuifolium* (Asteraceae); XI YE DUI XIN JU; Fine-leaved Sneezeweed. Isolated compounds: 9288, 20963.
- T3142 *Helianthus annuus* (Asteraceae); XIANG RI KUI HUA; Sunflower Flower. Used part: flower. TCM Effects: To dispel wind, calm liver, disinhibit damp. TCM Indications: Dizziness, tinnitus, dribbling urination. Isolated compounds: 9295, 9296, 12952.
- T3143 *Helianthus annuus* (Asteraceae); XIANG RI KUI JING SUI; Sunflower Stem Pith. Used part: stem pith. TCM Effects: To clear heat, disinhibit urine, relieve cough. TCM Indications: Blood strangury, urethral stone, chyluria, inhibited urination. Isolated compounds: 2918, 15363, 19545.
- T3144 *Helianthus annuus* (Asteraceae); XIANG RI KUI YE; Sunflower Leaf. Used part: leaf. TCM Effects: To lower blood pressure, interrupt malaria, resolve toxin. TCM Indications: Hypertension, malaria, clove sore. Isolated compounds: 1336, 2918, 7557, 7786, 8503, 9291, 9293, 9298, 9299, 13133, 13135, 13264, 15363, 19545.
- T3145 *Helianthus annuus* (Asteraceae); XIANG RI KUI ZI; Sunflower Seed. Used part: seed. TCM Effects: To outthrust papules, check dysentery, outthrust welling abscess and pus. TCM Indications: Blood dysentery, welling abscess with pus swelling. Isolated compounds: 2226, 7996, 9291, 9294, 12892, 15634, 18421, 19039, 19545.
- T3146 *Helianthus annuus* cv (Asteraceae); ZAI PEI XIANG RI KUI YE; Cultivated Sunflower Leaf\*. Used part: leaf. TCM Effects: To lower blood pressure, interrupt malaria, resolve toxin. TCM Indications: Malaria, clove sore, hypertension. Isolated compounds: 1335, 1337, 1338, 9324, 9325.
- T3147 *Helianthus canescens* (Asteraceae); HUI BAI XIANG RI KUI; Canescent Sunflower\*. Isolated compounds: 15634.
- T3148 *Helianthus ciliaris* (Asteraceae); YUAN MAO XIANG RI KUI; Ciliate Sunflower\*. Isolated compounds: 2946.
- T3149 *Helianthus maximiliani* (Asteraceae); MA SHI XIANG RI KUI; Maximilian's Sunflower. Isolated compounds: 15634.
- T3150 *Helianthus mollis* (Asteraceae); ROU MAO XIANG RI KUI; Pubescent Sunflower\*. Isolated compounds: 7581.
- T3151 *Helianthus niveus* (Asteraceae); XUE BAI XIANG RI KUI; Snowwhite Sunflower\*. Isolated compounds: 15634.
- T3152 *Helianthus pumilus* (Asteraceae); AI XIANG RI KUI; Dwarf Sunflower\*. Isolated compounds: 4739, 13264.
- T3153 *Helianthus* sp. (Asteraceae). Isolated compounds: 4739.
- T3154 *Helianthus strumosus* (Asteraceae); LIN DI XIANG RI KUI; Woodland Sunflower. Isolated compounds: 107.
- T3155 *Helianthus tuberosus* (Asteraceae); JU YU; Jerusalem Artichoke. Used

- part: tuber or stem-leaf. TCM Effects: To clear heat and cool blood, disperse swelling. TCM Indications: Febrile diseases, intestinal heat bleeding, knocks and falls, swelling pain from fracture. Isolated compounds: 8307, 9291, 14510, 20147.
- T3156 *Helichrysum arenarium* (Asteraceae); SHA SHENG LA JU; Yellow Everlasting. Used part: inflorescence. TCM Indications: Cholecystitis, gallstones. Isolated compounds: 15279.
- T3157 *Helichrysum caespitium* (Asteraceae); NAN FEI CONG SHENG LA JU; South-Africa Tufted Everlasting\*. Isolated compounds: 14789.
- T3158 *Helichrysum italicum* (Asteraceae); YI DA LI LA JU; Italian Everlasting\*. Isolated compounds: 8865, 10182, 10472, 17403, 21392.
- T3159 *Helichrysum* sp. (Asteraceae). Isolated compounds: 3454, 10775, 17403.
- T3160 *Helichrysum* spp. (Asteraceae). Isolated compounds: 17399.
- T3161 *Helichrysum sutherlandii* (Asteraceae). Isolated compounds: 9305.
- T3162 *Helicia nilagirica* (Proteaceae); SHEN LU SHAN LONG YAN; Nilgiris Helicia. Used part: root. TCM Effects: To astringe intestines and check diarrhea, resolve toxin. TCM Indications: Enteritis and diarrhea, food poisoning, poisoning of mushrooms. Isolated compounds: 9302, 9303.
- T3163 *Helicteres angustifolia* (Sterculiaceae); SHAN ZHI MA; Narrowleaf Screwtree. Used part: whole herb. TCM Effects: To clear heat and resolve exterior, resolve toxin and disperse swelling. TCM Indications: Common cold with fever, headache, thirst, epidemic parotitis, measles papules, dysentery, enteritis, swollen welling abscess, scrofula, sore toxin, eczema, hemorrhoids. Isolated compounds: 13515, 14479, 14480.
- T3164 *Helicteres isora* (Sterculiaceae); HUO SUO MA; Tortedfruit Screwtree. Used part: root. TCM Effects: To move *qi* and relieve pain. TCM Indications: Chronic gastritis, gastric ulcer, ileus, enteritis and diarrhea. Isolated compounds: 11706, 11707, 11708, 11709, 11710, 13126.
- T3165 *Helioniopsis orientalis*. Isolated compounds: 16809.
- T3166 *Heliopsis* sp. (Asteraceae). Isolated compounds: 13594.
- T3167 *Heliotropium amplexicaule* (Boraginaceae); BAO JING TIAN JIE CAI; Clasping Heliotrope. Isolated compounds: 11019.
- T3168 *Heliotropium arguzioides* (Boraginaceae); A GU JI TIAN JIE CAI; Arguzioid Heliotrope\*. Isolated compounds: 9320.
- T3169 *Heliotropium curassavicum* (Boraginaceae); YAN TIAN JIE CAI; Curassow Heliotrope\*. Isolated compounds: 9320, 12535.
- T3170 *Heliotropium eichwaldii* (Boraginaceae); AI SHI TIAN JIE CAI; Eichwald Heliotrope\*. Isolated compounds: 9320.
- T3171 *Heliotropium europaeum* (Boraginaceae); OU ZHOU TIAN JIE CAI; Heliotrope. Isolated compounds: 7636, 9320, 12535.
- T3172 *Heliotropium floridum* var. *latifolium* (Boraginaceae). Isolated compounds: 7834.
- T3173 *Heliotropium hirsutum* (Boraginaceae); YING MAO TIAN JIE CAI; Hairy Heliotrope\*. Isolated compounds: 12535.
- T3174 *Heliotropium indicum* (Boraginaceae); DA WEI YAO; Indian Heliotrope. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Pneumonia, pyothorax, sore pharynx, oral ulcer, vesical calculus, swollen welling abscess. Isolated compounds: 437, 6686, 9320, 11019, 11020, 18546, 20488.
- T3175 *Heliotropium lasiocarpum* (Boraginaceae); MAO GUO TIAN JIE CAI; Hairyfruit Heliotrope\*. Isolated compounds: 12535.
- T3176 *Heliotropium olgae* (Boraginaceae); AO ER JIA TIAN JIE CAI; Olga Heliotrope\*. Isolated compounds: 9320.
- T3177 *Heliotropium ovalifolium* (Boraginaceae); LUAN YE TIAN JIE CAI; Ovateleaf Heliotrope\*. Isolated compounds: 9321, 9322.
- T3178 *Heliotropium ramosissimum* (Boraginaceae); DUO ZHI TIAN JIE CAI; Ramose Heliotrope\*. Isolated compounds: 9320.
- T3179 *Heliotropium rotundifolium* (Boraginaceae); YUAN YE TIAN JIE CAI; Roundleaf Heliotrope\*. Isolated compounds: 7636.
- T3180 *Heliotropium* sp. (Boraginaceae). Isolated compounds: 9318, 17470.
- T3181 *Heliotropium steudneri* (Boraginaceae); SI SHI TIAN JIE CAI; Steudner Heliotrope\*. Isolated compounds: 13235.
- T3182 *Heliotropium supinum* (Boraginaceae); YANG XIN TIAN JIE CAI; Supine Heliotrope\*. Isolated compounds: 9316, 20488.
- T3183 *Helleborus niger* (Ranunculaceae); TI GEN CAO; Black Hellebore. Isolated compounds: 9329, 9330.
- T3184 *Helleborus odorus* (Ranunculaceae); XIANG TIE KUAI ZI; Odorous Hellebore\*. Isolated compounds: 9330.
- T3185 *Helleborus orientalis* var. *hirsutus* (Ranunculaceae); YING MAO TI GEN CAO; Hairy Hellebore\*. Isolated compounds: 1178.
- T3186 *Helleborus purpurascens* (Ranunculaceae); ZI TI GEN CAO; Purple Hellebore\*. Isolated compounds: 9330.
- T3187 *Helleborus thibetanus* (Ranunculaceae); TIE KUAI ZI; Tibetan Hellebore. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Cystitis, urethritis, swelling toxin of sore and boil, knocks and falls. Isolated compounds: 9329, 9330.
- T3188 *Helleborus torquatus* [Syn. *Helleborus serbicus*] (Ranunculaceae); NIU QU TI GEN CAO; Tortuous Hellebore\*. Isolated compounds: 9326, 9327, 9328, 10063, 10064.
- T3189 *Helleborus viridis* (Ranunculaceae); LV TI GEN CAO; Green Hellebore\*. Isolated compounds: 18318, 18326, 18331, 18730, 18731.
- T3190 *Helminthostachys zeylanica* (Helminthostachyaceae); RU DI WU GONG; Ceylan Helminthostachys. Used part: rhizome. TCM Effects: To clear lung and transform phlegm, dissipate stasis and resolve toxin. TCM Indications: Cough, asthma, sore pharynx, painful swelling from knocks and falls, welling abscess, poisonous snake bite. Isolated compounds: 10397, 22174, 22175, 22176, 22177, 22178, 22179, 22180, 22181, 22182, 22183, 22184, 22185, 22186, 22187, 22188.
- T3191 *Hemerocallis* sp. (Liliaceae). Isolated compounds: 967.
- T3192 *Hemerocallis citrina* (Liliaceae); HUANG HUA CAI; Citron Daylily. Used part: bud. TCM Effects: To clear heat and disinhibit damp, loosen chest and resolve depression, cool blood and resolve toxin. TCM Indications: Short voidings of reddish urine, jaundice, oppression in chest and vexation in heart, reduced sleep, hematochezia from hemorrhoids, sore and welling abscess. Isolated compounds: 3615.
- T3193 *Hemerocallis fulva* (Liliaceae); XUAN CAO GEN; Orange Daylily. Equivalent plant: *Hemerocallis minor*, *Hemerocallis lilio-asphodelus*. Used part: root. TCM Effects: To clear heat and disinhibit damp, cool blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Edema, jaundice, strangury-turbidity, vaginal discharge,

- spontaneous external bleeding, hematochezia, flooding and spotting, scrofula, mammary welling abscess, galactostasis. Isolated compounds: 3615, 7421, 10151, 14046, 16469, 17392, 18759.
- T3194 *Hemerocallis fulva* var. *kwanso* (Liliaceae); CHONG BAN XUAN CAO; Doublepetalous Daylily\*. Isolated compounds: 1048, 9341, 9342.
- T3195 *Hemerocallis lilio-asphodelus* (Liliaceae); BEI HUANG HUA CAI; Yellow Daylily. Used part: root. TCM Effects: See *Hemerocallis fulva*. TCM Indications: See *Hemerocallis fulva*. Isolated compounds: 3615.
- T3196 *Hemerocallis longituba* (Liliaceae); CHANG GUAN XUAN CAO; Longtube Daylily\*. Isolated compounds: 1866.
- T3197 *Hemerocallis minor* (Liliaceae); XIAO XUAN CAO GEN; Small Yellow Daylily. Used part: root. TCM Effects: See *Hemerocallis fulva*. TCM Indications: See *Hemerocallis fulva*. Isolated compounds: 3911, 9339, 9340.
- T3198 *Hemerocallis thunbergii* (Liliaceae); SHE XIANG XUAN; Thunberg's Daylily. Isolated compounds: 9339, 18759.
- T3199 *Hemibarbus labeo* (Cyprinidae); CHONG CHUN YU; Skin-carp. Used part: meat. TCM Effects: To supplement *qi* and disinhibit water, dispel wind-damp, strengthen sinews and bones. TCM Indications: Edema, inhibited urination, aching in lumbus and knees, slowness to work. Isolated compounds: 2845.
- T3200 *Hemidesmus indicus* (Asclepiadaceae); YIN DU BA QIA; Anantmul. Used part: root. TCM Effects: To clear heat and resolve toxin, disinhibit urine and disperse edema, enrich and supplement<sup>[5509]</sup>. TCM Indications: febrile diseases, strangury, syphilis, snake bite or scorpion sting<sup>[5509]</sup>. Isolated compounds: 5130, 9346.
- T3201 *Hemiphragma heterophyllum* (Scrophulariaceae); BIAN DA XIU QIU; Diversifolious Hemiphragma. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, menstrual block and abdominal pain, scrofula, swelling of sores and damp toxin, sore pharynx, gingiva painful swelling, knocks and falls. Isolated compounds: 9348, 17510.  
*Hemistepta carthamoides* = *Hemistepta lyrata*
- T3202 *Hemistepta lyrata* [Syn. *Hemistepta carthamoides*; *Saussurea carthamoides*] (Asteraceae); NI HU CAI; Lyrate Hemistepta. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling. TCM Indications: Hemorrhoids and fistulas, swollen welling abscess and clove sores, mammary welling abscess, lymphoditis, wind papule itching, bleeding due to external injury, fracture. Isolated compounds: 9351, 9352, 9353.
- T3203 *Hemsleya amabilis* (Cucurbitaceae); LUO GUO DI; Lovely Hemsleya. Equivalent plant: *Hemsleya macrosperma*. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Swelling pain in throat, toothache, painful red eyes, bacillary dysentery, enteritis, stomachache, hepatitis, urinary tract infection, swelling of clove. Isolated compounds: 5575, 5576.
- T3204 *Hemsleya carnosiflora* (Cucurbitaceae); ROU HUA XUE DAN; Fleshy-flower Hemsleya. Isolated compounds: 3202, 3203, 3204.
- T3205 *Hemsleya dolichocarpa* (Cucurbitaceae); CHANG GUO XUE DAN; Longfruit Hemsleya. Isolated compounds: 5576.
- T3206 *Hemsleya gigantea* (Cucurbitaceae); JU HUA XUE DAN; Giant Hemsleya. Isolated compounds: 9354, 9355.
- T3207 *Hemsleya graciliflora* [Syn. *Alsomitra graciliflora*] (Cucurbitaceae); XI HUA XUE DAN; Smallflower Hemsleya. Isolated compounds: 4316.
- T3208 *Hemsleya macrosperma* (Cucurbitaceae); DA ZI XUE DAN; Largeseed Hemsleya. Used part: tuberoid. TCM Effects: See *Hemsleya amabilis*. TCM Indications: See *Hemsleya amabilis*. Isolated compounds: 5575, 5576.
- T3209 *Hemsleya pengxianensis* (Cucurbitaceae); PENG XIAN XUE DAN; Pengxian Hemsleya. Isolated compounds: 3524, 5575, 5576.
- T3210 *Hemsleya penxianensis* var. *gulinensis* (Cucurbitaceae); GU LIN XUE DAN; Gulin Hemsleya. Isolated compounds: 9357, 9358.
- T3211 *Heracleum canescens* (Apiaceae); HUI BAI DU HUO; Canescent Cowparsnip\*. Isolated compounds: 2284, 9419.
- T3212 *Heracleum granatense* (Apiaceae); HONG DU HUO; Red Cowparsnip\*. Isolated compounds: 2833.
- T3213 *Heracleum hemsleyanum* (Apiaceae); NIU WEI DU HUO; Hemsley Cowparsnip. Equivalent plant: *Heracleum yungningense*, *Heracleum moellendorffii*. Used part: root. TCM Effects: To dispel wind and dissipate cold, overcome damp and relieve pain. TCM Indications: Common cold, headache, toothache, wind-cold-damp impediment, pain in lumbus and knees, crane's knee wind, disseminated swelling of welling abscess and sores. Isolated compounds: 无.
- T3214 *Heracleum lanatum* (Apiaceae); RUAN MAO DU HUO; Soft-hair Cowparsnip. Used part: root. TCM Effects: See *Angelica pubescens* f. *biserrata*. TCM Indications: See *Angelica pubescens* f. *biserrata*. Isolated compounds: 18086.
- T3215 *Heracleum lanatum* var. *asiaticum* (Apiaceae); YA ZHOU DU HUO; Asian Cowparsnip\*. Isolated compounds: 22775.
- T3216 *Heracleum mantegazzianum* (Apiaceae); DA YE NIU FANG FENG; Giant Hogweed. Isolated compounds: 1194, 17077.  
*Heracleum microcarpum* = *Heracleum moellendorffii*
- T3217 *Heracleum moellendorffii* [Syn. *Heracleum microcarpum*; *Heracleum morifolium*] (Apiaceae); DUAN MAO DU HUO; Shorthair Cowparsnip. Used part: root. TCM Effects: See *Heracleum hemsleyanum*. TCM Indications: See *Heracleum hemsleyanum*. Isolated compounds: 17375.
- T3218 *Heracleum moellendorffii* var. *paucivittatum* (Apiaceae); ZOU MA QIN; Paucivittat Cowparsnip. Isolated compounds: 14894.  
*Heracleum morifolium* = *Heracleum moellendorffii*
- T3219 *Heracleum nepalense* (Apiaceae); NI BO ER DU HUO; Nepal Cowparsnip. Isolated compounds: 933.
- T3220 *Heracleum pyrenaicum* (Apiaceae); OU ZHOU DU HUO; European Cowparsnip\*. Isolated compounds: 2833.
- T3221 *Heracleum rapula* (Apiaceae); BAI YUN HUA; White Cowparsnip\*. Used part: root. TCM Effects: To dispel wind and eliminate damp, relieve cough and calm asthma, dissipate stasis and relieve pain. TCM Indications: Wind-cold common cold, wind-cold-damp impediment, lumbago, stomachache, abdominal pain, toothache, vacuity cold cough asthma, leukorrhea, amenorrhea and dysmenorrhea, mounting *qi*, stasis swelling from knocks and falls. Isolated compounds: 1510, 5535, 13571.
- T3222 *Heracleum scabridum* (Apiaceae); DIAN BAI ZHI; Scabrous



- Cowparsnip. Used part: root. TCM Effects: To dispel wind and effuse sweat, dissipate cold and dry damp. TCM Indications: Wind-cold common cold, headache, cough and asthma, deep-source nasal congestion, cold pain in stomach duct and abdomen, wind-cold-damp impediment, cold-damp vaginal discharge, dysmenorrhea, toxin swelling of sores, wind papule itching. Isolated compounds: 17375.
- T3223 *Heracleum* sp. (Apiaceae). Isolated compounds: 2309, 22195.
- T3224 *Heracleum sphondylium* (Apiaceae); NIU FANG FENG; Hogweed. Isolated compounds: 17375, 22774.
- T3225 *Heracleum* spp. (Apiaceae). Isolated compounds: 17375.
- T3226 *Heracleum thomsoni* (Apiaceae); TANG MU XUN DU HUO; Thomson Cowparsnip\*. Isolated compounds: 1536.
- T3227 *Heracleum wallichii* (Apiaceae); WA SHI DU HUO; Wallich Cowparsnip\*. Isolated compounds: 4461, 11329.
- T3228 *Heracleum yungningense* (Apiaceae); YONG NING DU HUO; Yungning Cowparsnip. Used part: root. TCM Effects: See *Heracleum hemsleyanum*. TCM Indications: See *Heracleum hemsleyanum*. Isolated compounds: 1191, 11249, 11589, 11601, 17375, 20156, 20280, 22953, 22954, 22955, 22956.
- T3229 *Heridium erinaceus* [Syn. *Hydnum erinaceus*] (Hydnaceae); HOU TOU JUN; Bearded Tooth Carphophore. Used part: sporocarp. TCM Effects: To fortify spleen and nourish stomach, quiet spirit, anticancer. TCM Indications: Vacuity and hypodynamia, indigestion, insomnia, gastric ulcer, duodenal ulcer, chronic gastritis, carcinoma in digestive tract. Isolated compounds: 7259, 7260, 7261, 7262, 7263, 7264, 7265, 9429, 9430, 9431, 9432, 9433, 9434, 9435, 9436, 9437, 9438, 9439, 10055, 22850.
- T3230 *Hernandia nymphaeifolia* (Hernandiaceae); SHUI LIAN YE TONG; Sleeping Lotusleafung. Isolated compounds: 6268, 15879, 16282, 16283, 16343.  
*Hernandia ovigera* = *Hernandia sonora*
- T3231 *Hernandia sonora* [Syn. *Hernandia ovigera*] (Hernandiaceae); LIAN YE TONG; Lotusleafung. Used part: leaf or seed. TCM Effects: To drain precipitation and free stool, anticancer. TCM Indications: Constipation, malignant tumor (therioma), nervous system diseases, cardiovascular diseases. Isolated compounds: 1426, 4056, 5543, 6832, 7180, 8814, 9440, 9443, 9451, 9453, 9454, 13945, 14251, 14483, 17342.
- T3232 *Heterocentron roseum*. Isolated compounds: 15642.
- T3233 *Heteropappus altaicus* (Asteraceae); A ER TAI ZI WAN; Altai Heteropappus. Used part: whole herb. TCM Effects: To clear heat and downbear fire, expel pus and relieve cough. TCM Indications: Febrile diseases, liver gallbladder effulgent fire, pulmonary welling abscess, hacking of pus blood, cystitis, zoster, sore and boil. Isolated compounds: 5088.
- T3234 *Heteropogon contortus* (Poaceae); DI JIN; Contorted Tanglehead. Used part: rhizome or whole herb. TCM Effects: To clear heat and allay thirst, dispel wind and eliminate damp. TCM Indications: Diabetes mellitus due to internal heat, wind-damp impediment pain, cough, vomiting and diarrhea. Isolated compounds: 11085.
- T3235 *Heteroscyphus billardieri* (Lophocoleaceae). Isolated compounds: 7194, 9923, 18915.
- T3236 *Hevea brasiliensis* (Euphorbiaceae); XIANG JIAO SHU; Para Rubbertree. Isolated compounds: 18304.
- T3237 *Hexalobus crispiflorus* (Annonaceae); FEI ZHOU FAN LI ZHI; African Custard Apple\*. Isolated compounds: 15797.  
*Hibiscus abelmoschus* = *Abelmoschus moschatus*
- T3238 *Hibiscus cannabinus* (Malvaceae); DA MA JIN; Kenaf Hibiscus. Isolated compounds: 3054, 6352, 9013, 9014.
- T3239 *Hibiscus elatus* (Malvaceae); GAO HONG JIN; Tall Hibiscus. Isolated compounds: 8863.
- T3240 *Hibiscus esculentus* (Malvaceae); KA FEI HUANG KUI; Edible Abelmoschus. Used part: root, leaf, flower or seed. TCM Effects: To disinhibit throat, free strangury, promote lactation, regulate menstruation. TCM Indications: Sore swollen throat, dribbling and inhibited voidings of urination, postpartum scant milk, menstrual disorder. Isolated compounds: 4442.
- T3241 *Hibiscus mutabilis* (Malvaceae); MU FU RONG HUA; Cottonrose Hibiscus Flower. Used part: flower. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, disperse swelling and expel pus. TCM Indications: Lung heat cough, blood ejection, red eyes with gall, flooding and spotting, vaginal discharge, diarrhea, abdominal pain, swollen welling abscess, sore and boil, poisonous insect stings, burns and scalds, knocks and falls. Isolated compounds: 4447, 4451, 18368.  
*Hibiscus populneus* = *Thespesia populnea*
- T3242 *Hibiscus rosa-sinensis* (Malvaceae); FU SANG HUA; Chinese Hibiscus Flower. Used part: flower. TCM Effects: To clear lung, cool blood, transform damp, resolve toxin. TCM Indications: Lung heat cough, hemoptysis, nosebleed(epistaxis), flooding and spotting, vaginal discharge, dysentery, red and white turbidity, swelling toxin of welling abscess and sore. Isolated compounds: 4449, 18342, 18345.
- T3243 *Hibiscus rosa-sinensis* (Malvaceae); FU SANG YE; Chinese Hibiscus Leaf. Used part: leaf. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Vaginal discharge, strangury syndrome, swelling toxin of clove sore, parotitis, mastitis, lymphnitis. Isolated compounds: 20713.
- T3244 *Hibiscus syriacus* (Malvaceae); MU JIN HUA; Shrubalthea Flower. Used part: flower. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin. TCM Indications: Intestinal wind bleeding, red and white dysentery, bleeding from hemorrhoids, lung heat cough, hemoptysis, vaginal discharge, swollen welling abscess, sore and boil, scalds. Isolated compounds: 3829, 3831, 3832, 10038, 10786, 16901, 19331, 19542.
- T3245 *Hibiscus syriacus* (Malvaceae); MU JIN PI; Shrubalthea Bark. Used part: bark. TCM Effects: To clear heat and disinhibit damp, kill worms and relieve itch. TCM Indications: Damp-heat diarrhea dysentery, intestinal wind bleeding, prolapse of rectum, hemorrhoids, red and white vaginal discharge, trichomoniasis, scab and lichen, scrotal eczema. Isolated compounds: 2056, 6536, 15935, 19983, 20439.
- T3246 *Hibiscus syriacus* (Malvaceae); MU JIN ZI; Shrubalthea Fruit. Used part: fruit. TCM Effects: To clear lung and transform phlegm, relieve headache, resolve toxin. TCM Indications: Cough of phlegm asthma, bronchitis, headache, yellow-water sore, eczema. Isolated compounds: 13455, 20328, 21412, 21413, 21415, 22559, 22560.
- T3247 *Hibiscus taiwanensis* (Malvaceae); TAI WAN FU RONG; Taiwan

- Hibiscus. Used part: root and stem. TCM Effects: To clear lung and relieve cough, cool blood and resolve toxin. TCM Indications: Lung heat cough, toxin swelling of sores. Isolated compounds: 2224, 2527, 2887, 3829, 3831, 4135, 7768, 7788, 7789, 7895, 8863, 9481, 9535, 9536, 9537, 9538, 9539, 9818, 12801, 13515, 13518, 14205, 14254, 14442, 14443, 14447, 14804, 15169, 16402, 19540, 19542, 19910, 19983, 19987, 20369, 20554, 20556, 20566, 22208, 22332, 22336.
- T3248 *Hibiscus tiliaceus* (Malvaceae); HUANG JIN; Linden Hibiscus. Used part: leaf, bark or flower. TCM Effects: To clear lung and relieve cough, resolve toxin and disperse swelling. TCM Indications: Lung heat cough, swelling pain of sore and boil, cassava poisoning. Isolated compounds: 12501.
- T3249 *Hibiscus vitifolius* (Malvaceae); PU TAO YE MU JIN; Grapeleaf Hibiscus\*. Isolated compounds: 8965.
- T3250 *Hierochloe odorata* (Poaceae); MAO XIANG HUA; Vanillagrass. Used part: inflorescence. TCM Effects: To warm stomach, check vomiting. TCM Indications: Cold pain in heart and abdomen. Isolated compounds: 4142.
- T3251 *Himatanthus sucuuba* (Apocynaceae); SU KU BA DOU HUA; Bellaco-Caspi. Isolated compounds: 1114, 13100, 13101, 13102, 20202.
- T3252 *Hippomane mancinella* (Euphorbiaceae); MA FENG MU; Manchineel. Isolated compounds: 13476, 22778.
- T3253 *Hippophae neurocarpa* (Elaeagnaceae); LEI GUO SHA JI; Veinfruit Seabuckthorn. Isolated compounds: 19087.
- T3254 *Hippophae rhamnoides* (Elaeagnaceae); CU LIU GUO; Seabuckthorn Fruit. Equivalent plant: *Hippophae rhamnoides* subsp. *sinensis*, *Hippophae rhamnoides* subsp. *yunnanensis*. Used part: fruit. TCM Effects: To relieve cough and transform phlegm, fortify stomach and disperse food, quicken blood and dissipate stasis. TCM Indications: Cough with profuse phlegm, pulmonary welling abscess, indigestion, food accumulation abdominal pain, stomachache, enteritis, amenorrhea, stasis swelling from knocks and falls. Isolated compounds: 1113, 1598, 1845, 1935, 3040, 3138, 3139, 3140, 3211, 3296, 3308, 3551, 3766, 5499, 5500, 6047, 7852, 7853, 8095, 9234, 9236, 9345, 9486, 10160, 10591, 10784, 11648, 12020, 12569, 12891, 12893, 13419, 15170, 15203, 16285, 16561, 18317, 18656, 19087, 19983, 20280, 20369, 20444, 20715, 21415, 22554, 22556, 22559, 22560, 22561, 22562, 22563, 22976.
- T3255 *Hippophae rhamnoides* subsp. *gyantsensis* (Elaeagnaceae); JIANG ZI SHA JI; Jiangzi Seabuckthorn\*. Isolated compounds: 19087.
- T3256 *Hippophae rhamnoides* subsp. *sinensis* (Elaeagnaceae); ZHONG GUO SHA JI; Chinese Seabuckthorn\*. Used part: fruit. TCM Effects: See *Hippophae rhamnoides*. TCM Indications: See *Hippophae rhamnoides*. Isolated compounds: 11648, 18317, 19087.
- T3257 *Hippophae rhamnoides* subsp. *turkestanica* (Elaeagnaceae); ZHONG YA SHA JI; Central Asia Seabuckthorn\*. Isolated compounds: 18317, 19087.
- T3258 *Hippophae rhamnoides* subsp. *yunnanensis* (Elaeagnaceae); YUN NAN SHA JI; Yunnan Seabuckthorn\*. Used part: fruit. TCM Effects: See *Hippophae rhamnoides*. TCM Indications: See *Hippophae rhamnoides*. Isolated compounds: 19087.
- T3259 *Hippophae thibetana* (Elaeagnaceae); XI ZANG SHA JI; Tibet Seabuckthorn. Isolated compounds: 19087.
- T3260 *Histiopteris incisa* (Dennstaedtiaceae); LI JUE; Incised Histiopteris. Isolated compounds: 18125, 18152.
- T3261 *Hodgkinsonia frutescens* (Cucurbitaceae). Isolated compounds: 18295, 18296.
- T3262 *Holarrhena africana* (Apocynaceae); FEI ZHOU ZHI XIE MU; African Holarrhena\*. Isolated compounds: 3968, 9578, 9585.
- T3263 *Holarrhena antidyenterica* (Apocynaceae); ZHI XIE MU PI; Droughtdysentery Holarrhena Bark. Used part: bark. TCM Effects: To move *qi* and check diarrhea, kill worms. TCM Indications: Dysentery, gastrointestinal flatulence. Isolated compounds: 3959, 3961, 3966, 3967, 3968, 3989, 3991, 5562, 5563, 6873, 6931, 9576, 9577, 9578, 9579, 9580, 9581, 9582, 9583, 9584, 9585, 9586, 9587, 9591, 9932, 9937, 10547, 11340, 12345, 12346, 12347, 12348, 12349, 12350, 14350, 16659, 18585, 18586, 18587, 21196.
- T3264 *Holarrhena congolensis* (Apocynaceae); GANG GUO HE ZHI XIE MU; Congo Holarrhena\*. Isolated compounds: 3968, 8010, 9584.
- T3265 *Holarrhena febrifuga* (Apocynaceae); TUI RE ZHI XIE MU; Febrifuge Holarrhena\*. Isolated compounds: 3968, 8010, 9587, 11340.
- T3266 *Holarrhena floribunda* (Apocynaceae); FAN HUA ZHI XIE MU; Purplequeen Holarrhena\*. Isolated compounds: 3968.
- T3267 *Holarrhena mitis* (Apocynaceae); WEN ROU ZHI XIE MU; Suave Holarrhena\*. Isolated compounds: 3968, 9584, 9587, 21511.
- T3268 *Holarrhena pubescens* (Apocynaceae); DUAN ROU MAO ZHI XIE MU; Shortfluff Holarrhena\*. Isolated compounds: 273, 3968, 6469, 10557, 12347.
- T3269 *Holarrhena waltbergii* (Apocynaceae); WO SHI ZHI XIE MU; Waltberg Holarrhena\*. Isolated compounds: 3968.
- T3270 *Holboellia fargesii* (Lardizabalaceae); WU YE GUA TENG; Farges Holboellia. Used part: fruit. TCM Effects: To clear heat and disinhibit damp, quicken blood and free vessels, move *qi* and relieve pain. TCM Indications: short voidings of reddish urine, strangury-turbidity, edema, wind-damp impediment pain, knocks and falls, breast milk stoppage, mounting *qi* (hernia), prolapse of uterus, testitis. Isolated compounds: 7723, 7724, 7725, 7726, 7727.
- T3271 *Holoptelea integrifolia* (Ulmaceae); YIN MIAN YU; Vellayim. Isolated compounds: 12569.
- T3272 *Holostylis reniformis* (Aristolochiaceae). Isolated compounds: 1709, 1730, 6830, 6831, 6932, 6933, 9592, 14393, 19615, 19616.
- T3273 *Homalanthus acuminatus* (Euphorbiaceae); JIAN JIAN AO YANG; Acuminate Aussiepoplar\*. Isolated compounds: 17958.
- T3274 *Homalanthus nutans* (Euphorbiaceae); XIA CHUI AO YANG; Nutant Aussiepoplar\*. Isolated compounds: 17958.
- T3275 *Homalium cochinchinensis* (Samydaceae); TIAN LIAO MU; Cochinchina Homalium. Isolated compounds: 2224, 3874, 3875, 3876, 3877, 21508, 21509, 21510.
- T3276 *Homo sapiens* (Hominidae); REN NIAO; Human Urine. Used part: human urine. TCM Effects: To enrich *yin* and downbear fire, stanch bleeding and disperse stasis. TCM Indications: *Yin* vacuity fever, taxation damage hemoptysis, blood ejection, spontaneous external bleeding, postpartum blood stasis, blood dizziness, knocks and falls, pain of blood stasis. Isolated compounds: 1160, 4223, 5153, 5164, 9548, 9937, 11220, 22246, 22251, 22259.

- T3277 *Homo sapiens* (Hominidae); REN ZHONG BAI; Human Urine Sediment. Used part: sediment of human urine. TCM Effects: To clear heat, downbear fire, disperse stasis. TCM Indications: Taxation fever, lung wilting, spontaneous external bleeding, blood ejection, throat impediment, *gan* of teeth and gum, mouth sore, tongue sores. Isolated compounds: 22246, 22251.
- T3278 *Homo sapiens* (Hominidae); XUE YU; Human Hair. Used part: human hair. TCM Effects: To dispel stasis and stanch bleeding. TCM Indications: Blood ejection, nosebleed(epistaxis), gum hemorrhage, blood dysentery, blood strangury, flooding and spotting. Isolated compounds: 13659.
- T3279 *Homo sapiens* (Hominidae); ZI HE CHE; Human Placenta. Used part: human placenta. TCM Effects: To supplement *qi*, nourish blood, boost essence. TCM Indications: Vacuity detriment, marked emaciation, steaming bone taxation fever, cough and asthma, hemoptysis, night sweating, emission, impotence, *qi*-blood depletion, infertility, scant breast milk. Isolated compounds: 1170, 4097, 4887, 5163, 7383, 7384, 7386, 7387, 17804, 17901.
- T3280 *Hopea parviflora* (Dipterocarpaceae); XIAO HUA PO LEI; Kongu. Isolated compounds: 1076, 2124, 16678.
- T3281 *Hopea utilis* (Dipterocarpaceae); YOU YONG PO LEI; Utilizable Hopea\*. Isolated compounds: 9636, 18649.
- T3282 *Hordeum vulgare* (Poaceae); MAI YA; Barley Germinating Fruit. Used part: germinated fruit. TCM Effects: To disperse food and transform accumulation, terminate lactation. TCM Indications: Food accumulation, abdominal distention and diarrhea, nausea and vomiting, inappetence, galactostasis, distending pain in breast. Isolated compounds: 3070, 8971, 9467, 9644, 9645, 9646, 13439, 18230, 20147, 22058, 22158.
- T3283 *Hosta sieboldiana* (Liliaceae); DA YU BIAO HUA; Shortclustered Plantainlily. Used part: root or flower. TCM Effects: To clear heat and resolve toxin, rectify *qi*. TCM Indications: Sore toxin, headache. Isolated compounds: 8457.
- T3284 *Houttuynia cordata* (Saururaceae); YU XING CAO; Heartleaf Houttuynia. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, expel pus and disinhibit urine. TCM Indications: Pulmonary welling abscess with hacking of pus and blood, lung heat phlegm cough, pneumonia, chronic bronchitis, urinary tract infection, odynuria, chronic uterine cervical infection, leptospirosis, otitis media, cystitis, dysentery, mastitis, heat toxin sores, heat strangury. Isolated compounds: 336, 1695, 3045, 3138, 3242, 3409, 3551, 4833, 4837, 5462, 9486, 10887, 11642, 12082, 12570, 12849, 12891, 13474, 13475, 14623, 15146, 15725, 15816, 17376, 17463, 18317, 18411, 19087, 19397, 19405, 19406, 19983, 20280, 22615.
- T3285 *Hovenia dulcis* (Rhamnaceae); ZHI JU GEN; Japanese Raisin Tree Root. Used part: root. TCM Effects: To dispel wind and quicken network vessels, stanch bleeding, resolve liquor. TCM Indications: Vacuity taxation blood ejection, wind-damp pain in sinew and bone. Isolated compounds: 7938, 9653.
- T3286 *Hovenia dulcis* (Rhamnaceae); ZHI JU ZI; Japanese Raisin Tree Seed. Used part: fruit or seed. TCM Effects: To resolve liquor toxin, eliminate vexation and allay thirst, check vomiting, disinhibit urine and free stool. TCM Indications: Drunkenness, vexation and thirst, vomiting, inhibited urine and stool. Isolated compounds: 1074, 1764, 9652, 16847.
- T3287 *Huechys sanguinea* (Cicadidae); HONG NIANG ZI; Red Lady-bug. Used part: dried body. TCM Effects: To break stasis, dissipate binds, attack toxin. TCM Indications: Scrofula, amenorrhea due to blood stasis, lumbago, infertility, lichen sore, rabid dog bite. Isolated compounds: 3094.
- T3288 *Humulus japonicus* [Syn. *Humulus scandens*] (Moraceae); LV CAO; Japanese Hop. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine and free strangury. TCM Indications: Tuberculosis, cystitis, mastitis, tonsillitis, lung heat cough, pulmonary welling abscess, vacuity heat with vexation and thirst, heat strangury, edema, inhibited urination, damp-heat diarrhea dysentery, heat toxin sores, itchy skin. Isolated compounds: 3674, 4029, 13109, 22581.
- T3289 *Humulus lupulus* (Moraceae); PI JIU HUA; European Hop Female-flower. Used part: female-flower. TCM Effects: To fortify stomach and disperse food, disinhibit urine and quiet spirit, eliminate inflammation. TCM Indications: Indigestion, abdominal distention, edema, cystitis, tuberculosis, cough, insomnia, leprosy. Isolated compounds: 628, 2936, 3241, 3242, 4076, 4819, 5261, 5262, 5263, 5742, 5743, 5911, 6497, 9657, 9665, 9669, 9670, 9671, 9672, 9675, 9676, 9677, 9678, 9815, 10830, 11248, 11459, 11460, 11754, 11783, 12714, 13109, 13110, 13111, 13112, 13113, 13114, 13115, 14176, 17808, 17839, 17843, 19681, 19987, 21599, 22761, 22762, 22763, 22764, 22765, 22766, 22767.
- Humulus scandens* = *Humulus japonicus*
- T3290 *Hunnemannia* spp. (Papaveraceae). Isolated compounds: 3498.
- T3291 *Hunteria elliptica* (Apocynaceae). Isolated compounds: 12268.
- T3292 *Hunteria zeylanica* (Apocynaceae); ZI LAN SHU; Ceylon Hunteria. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: Painful swelling from knocks and falls, poisonous snake bites. Isolated compounds: 12268.
- T3293 *Huperzia miyoshiana* (Huperziaceae); DONG BEI SHI SHAN; Northeast Clubmoss\*. Isolated compounds: 3813, 6956, 7805, 13191, 13223, 13225, 13229.
- T3294 *Huperzia selago* [Syn. *Lycopodium selago*] (Huperziaceae); XIAO JIE JIN CAO; Selago-like Climbing Fern. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, disperse swelling and relieve pain, stanch bleeding. TCM Indications: Wind-damp impediment pain, knocks and falls, bleeding due to external injury, urticaria. Isolated compounds: 567, 7768, 9686, 10170, 13191, 13223, 15889, 15890, 18062, 19675.
- T3295 *Huperzia serrata* [Syn. *Lycopodium serratum*] (Huperziaceae); QIAN CENG TA; Serrate Clubmoss. Used part: whole herb. TCM Effects: To abate fever, eliminate damp, disperse stasis, stanch bleeding, clear heat and resolve toxin. TCM Indications: Lung abscess, pneumonia, cor pulmonale, taxation damage and blood ejection, bleeding from hemorrhoids, vaginal discharge, knocks and falls, toxin swelling, hematuria, cold-damp ascites, enduring sores, scalds. Isolated compounds: 459, 4748, 6116, 6117, 6118, 6119, 6120, 6121, 6122, 7017, 7142, 7143, 7144, 7168, 9686, 9687, 9688, 9689, 9690, 10644, 10699, 10700, 10701, 10703, 10704, 10705, 10706, 10707, 10708, 12400, 13046, 13177, 13187, 13190, 13191, 13225, 13226, 13227,

- 13228, 13229, 13230, 13231, 13232, 13233, 13234, 14493, 15407, 16313, 16321, 16322, 16354, 16355, 16421, 19766, 19768, 19769, 19770, 19771, 19772, 19773, 19774, 21424, 21425.
- T3296 *Hura crepitans* (Euphorbiaceae); SHA HE SHU; Sandbox-tree. Isolated compounds: 9691.
- T3297 *Hyacinthus orientalis* (Liliaceae); FENG XIN ZI; Common Hyacinth. Isolated compounds: 9696.
- T3298 *Hyacinthus* sp. (Liliaceae). Isolated compounds: 3693.
- T3299 *Hydnellum caeruleum* (Thelephoraceae); LAN SE YA CHI JUN; Inedible Mushroom. Isolated compounds: 21301, 21302, 21303, 21304, 21305, 21306.
- T3300 *Hydnocarpus anthelminticus* (Flacourtiaceae); DA FENG ZI; Chaulmoogratree Seed. Used part: seed. TCM Effects: To dispel wind and dry damp, attack toxin and kill worms. TCM Indications: Numbing wind, scab and lichen, red bayberry sore. Isolated compounds: 883, 884, 885, 3485, 8955, 9697.
- T3301 *Hydnocarpus wightiana* (Flacourtiaceae); WEI SHI DA FENG ZI; Wightiana Chaulmoogratree Seed\*. Isolated compounds: 15409.  
*Hydnum erinaceus* = *Hericium erinaceus*
- T3302 *Hydnum repandum* (Hydnaceae); MEI WEI CHI JUN; Sweet Tooth. Isolated compounds: 19357, 19358.
- T3303 *Hydrangea chinensis* (Saxifragaceae); ZHONG GUO XIU QIU; Chinese Hydrangea. Used part: root. TCM Effects: To interrupt malaria, quicken blood and relieve pain, clear heat and disinhibit urine. TCM Indications: Knocks and falls, fracture, malaria, headache, measles papules, dribbling pain of urination. Isolated compounds: 4648, 9452, 9698, 9700, 9701, 9815, 9944, 11234, 14254, 18420, 19983, 19987, 20554, 22195.
- T3304 *Hydrangea macrophylla* (Saxifragaceae); BA XIAN HUA; Largeleaf Hydrangea. Used part: root, leaf and flower. TCM Effects: To interrupt malaria. TCM Indications: Malaria, fright palpitation due to heart heat, vexation and agitation. Isolated compounds: 4647, 4648, 9699, 9700, 13084, 13085.
- T3305 *Hydrangea macrophylla* var. *thunbergii* (Saxifragaceae); SE BO GE XIU QIU; Thunberg Hydrangea\*. Isolated compounds: 9700, 17225.
- T3306 *Hydrangea paniculata* (Saxifragaceae); FEN TUAN HUA; Paniculate Hydrangea. Used part: flower. TCM Effects: To disperse damp, break blood. TCM Indications: Scrotal wind. Isolated compounds: 8078, 22195.
- T3307 *Hydrangea* sp. (Saxifragaceae). Isolated compounds: 12950.
- T3308 *Hydrangea umbellata* (Saxifragaceae); SAN XING XIU QIU; Umbellate Hydrangea. Used part: root. TCM Effects: To interrupt malaria, disperse food, clear heat and resolve toxin, dispel phlegm and dissipate binds. TCM Indications: Malaria, food accumulation abdominal distention, swelling pain in throat, skin lichen *lai*, swelling toxin of sore and boil, goiter and tuberculosis. Isolated compounds: 5435.
- T3309 *Hydrastis canadensis* (Ranunculaceae); BAI MAO GEN<sup>(4)</sup>; Golden-seal. Isolated compounds: 2302, 2303, 3055, 3057, 3058, 6366, 9702, 9703, 11348, 14567, 19985.
- T3310 *Hydroclathrus tenuis* (Scytosiphonaceae); BO YE WANG YI ZAO. Isolated compounds: 2436.
- T3311 *Hydrocotyle sibthorpioides* (Apiaceae); TIAN HU SUI; Lawn Pennywort. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Jaundice, dysentery, edema, strangury, eye screen, throat swelling, swelling toxin of welling abscess and sore, zoster, knocks and falls. Isolated compounds: 4140, 9710, 9711, 9712, 9713, 9714, 9715, 9716, 18332, 22173.
- T3312 *Hygrophorus latitabundus* (Hygrophoraceae). Isolated compounds: 433, 434, 435, 436, 5339, 5340, 5341, 10840.
- T3313 *Hygrophorus olivaceoalbus* (Hygrophoraceae); Slimysheathed Waxy Cap 橄欖白蠟傘. Isolated compounds: 430, 431, 5338, 10837, 10838, 21536.
- T3314 *Hygrophorus persoonii* (Hygrophoraceae). Isolated compounds: 426, 427, 428, 429, 5336, 5337, 5920, 10836, 10841, 10842, 21535.
- T3315 *Hygrophorus pustulatus* (Hygrophoraceae). Isolated compounds: 432, 10839.
- T3316 *Hylomecon japonica* (Papaveraceae); HE QING HUA; Japanese Hylomecon. Used part: root and rhizome. TCM Effects: To dispel wind and free network vessels, dissipate stasis and disperse swelling. TCM Indications: Wind-damp impediment pain, knocks and falls. Isolated compounds: 930, 3498, 3502, 3507, 3508, 4290, 19284, 20416.
- T3317 *Hylomecon* spp. (Papaveraceae). Isolated compounds: 3498.
- T3318 *Hylotelephium mingjinianum* (Crassulaceae); ZI HUA JING TIAN; Purpleflower Stonecrop. Used part: whole herb. TCM Effects: To quicken blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Blood ejection, sprain, taxation damage in lumbar muscle, scalds, poisonous snake bite, zoster, indigestion. Isolated compounds: 5763, 12083, 14872, 14873.  
*Hymenocallis americana* = *Hymenocallis littoralis*
- T3319 *Hymenocallis arenicola* (Amaryllidaceae); SHA SHENG SHUI GUI JIAO; Arenaceous Hymenocallis\*. Isolated compounds: 3197.
- T3320 *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancratium littoralis*] (Amaryllidaceae); SHUI GUI JIAO YE; Tropical American Hymenocallis Leaf. Used part: leaf. TCM Effects: To soothe sinews and quicken blood, disperse swelling and relieve pain. TCM Indications: Painful swelling from knocks and falls, pain in joints due to rheumatism, hemorrhoids. Isolated compounds: 13241, 19618, 20891.
- T3321 *Hymenocallis rotata* (Amaryllidaceae); FU ZHUANG SHUI GUI JIAO; Rotate Hymenocallis\*. Isolated compounds: 15750.
- T3322 *Hymenoclea salsola* (Asteraceae); MEI GUO HAI MO JU; Burro Bush. Isolated compounds: 1029, 4087, 10843.
- T3323 *Hymenodictyon excelsum* (Rubiaceae); TU LIAN QIAO; Tall Hymenodictyon. Used part: bark. TCM Effects: To clear heat and resolve toxin, suppress cough and interrupt malaria. TCM Indications: Malaria, malign malaria, common cold, ardent fever, cough with profuse phlegm. Isolated compounds: 664, 1359, 2299, 4622, 13041, 14124, 14974, 15734, 18998, 18999.
- T3324 *Hymenophyllum barbatum* (Hymenophyllaceae); MO JUE; Barbate Filmy Fern. Used part: whole herb. TCM Effects: To stanch bleeding. TCM Indications: Bleeding due to external injury. Isolated compounds: 8689, 10844, 10845, 10846, 10847, 10848, 10849, 10850, 10851, 10852, 10853, 10854, 10855, 10856, 10857, 10858, 10859, 10860,

- 10861, 10862, 10863, 10864, 10865, 10866, 14505.
- T3325 *Hymenoxys grandiflora* (Compositae); MO ZHI JU. TCM Effects: Anticarcinoma. Isolated compounds: 16733.
- T3326 *Hymenoxys odorata* (Compositae); XIANG MO ZHI JU. TCM Effects: Anticarcinoma. Isolated compounds: 15991, 16733.
- T3327 *Hyoscyamus niger* (Solanaceae); LANG DANG GEN; Black Henbane Root. Used part: root. TCM Effects: To interrupt malaria, kill worms, attack toxin. TCM Indications: Malaria, lichen and Scab sore. Isolated compounds: 1526, 21195, 22050.
- T3328 *Hyoscyamus niger* (Solanaceae); LANG DANG YE; Black Henbane Leaf. Used part: leaf. TCM Effects: To settle pain and resolve tetany. TCM Indications: Pain in stomach duct and abdomen, toothache, cough and asthma. Isolated compounds: 2001, 10870, 10872.
- T3329 *Hyoscyamus niger* (Solanaceae); LANG DANG ZI; Black Henbane Seed. Used part: ripe seed. TCM Effects: To resolve spasm and relieve pain, quiet heart and settle epilepsy. TCM Indications: Pain in stomach duct and abdomen, wind-damp impediment pain, decayed toothache due to wind, painful wound from knocks and falls, incessant asthma and cough, prolapse of rectum due to diarrhea, mania and withdrawal, fright epilepsy, swelling toxin of welling abscess and sore. Isolated compounds: 1287, 1526, 2001, 2218, 3087, 3088, 3829, 3830, 4417, 4680, 7788, 8814, 9013, 9486, 10870, 10871, 10872, 10874, 15203, 15944, 15945, 15946, 15951, 16066, 19087, 19983, 20280, 21037, 21195, 22332, 22376.
- T3330 *Hyoscyamus orientalis* (Solanaceae); DONG FANG TIAN XIAN ZI; Oriental Henbane\*. Isolated compounds: 1526.
- T3331 *Hyoscyamus* spp. (Solanaceae). Isolated compounds: 10870.
- T3332 *Hypecoum erectum* (Papaveraceae); ZHI LI JIAO HUI XIANG; Erect Hypecoum. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, suppress cough and relieve pain. TCM Indications: Common cold with fever, cough, swelling pain in throat, liver fire and red eyes, hepatitis, cholecystitis, dysentery, pain in joints. Isolated compounds: 10878, 10879, 10882, 14209.
- T3333 *Hypecoum japonicum* (Papaveraceae); DI TANG CAO; Japanese Hypecoum\*. Isolated compounds: 4032.
- T3334 *Hypecoum leptocarpum* (Papaveraceae); XI GUO JIAO HUI XIANG; Thinfruit Hypecoum. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood. TCM Indications: Common cold with fever, headache, throat pain, red eyes with gall, pain in joints, pneumonia, hepatitis, cholecystitis, blood ejection, spontaneous external bleeding, hematochezia. Isolated compounds: 3498, 4032, 10878, 10880, 12672, 12674, 12675, 12676, 12677, 16446, 17873, 19284.
- T3335 *Hypecoum procumbens* (Papaveraceae); PING ZHAN JIAO HUI XIANG; Procumbent Hypecoum\*. Isolated compounds: 17873.
- T3336 *Hypecoum* sp. (Papaveraceae). Isolated compounds: 7788.
- T3337 *Hypericum ancherii* (Clusiaceae); AN SHI JIN SI TAO; Ancher St.John'swort\*. Isolated compounds: 13481.
- T3338 *Hypericum androsaemum* (Clusiaceae); TU SAN JIN SI TAO; Tutsan. Isolated compounds: 15715.
- T3339 *Hypericum annulatum* (Clusiaceae); HUAN ZHUANG JIN SI TAO; Circularity St.John'swort\*. Isolated compounds: 321, 1340.
- T3340 *Hypericum ascyron* (Clusiaceae); HUANG HAI TANG; Giant St.John'swort. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, quicken blood and regulate menstruation, clear heat and resolve toxin. TCM Indications: Blood ejection due to blood heat, hemoptysis, hematuria, hematochezia, flooding and spotting, knocks and falls, bleeding due to external injury, menstrual disorder, dysmenorrhea, galactostasis, wind-heat common cold, malaria, hepatitis, dysentery, diarrhea, poisonous snake bite, scalds, eczema, yellow-water sore. Isolated compounds: 3549, 5846, 10883, 10887, 11642, 12020, 18317, 19087.
- T3341 *Hypericum aucheri* (Clusiaceae); AO SHI JIN SI TAO; Aucher St.John'swort\*. Isolated compounds: 15715.
- T3342 *Hypericum bellum* (Clusiaceae); MEI LI JIN SI TAO; Beautiful St.John'swort. Used part: fruit. TCM Effects: To clear damp heat, expel roundworms, relieve itch. TCM Indications: Hepatitis, dysentery, mouth sore, abdominal pain due to ascariasis, itchy of skin. Isolated compounds: 6339.
- T3343 *Hypericum calycinum* (Clusiaceae); DA E JIN SI TAO; Rose-of-Sharon. Isolated compounds: 10881.
- T3344 *Hypericum chinense* (Clusiaceae); JIN SI TAO GUO SHI; Chinese St.John'swort Fruit. Used part: fruit. TCM Effects: To moisten lung and relieve cough. TCM Indications: Lung disease, pertussis, vacuity heat cough. Isolated compounds: 9566.
- T3345 *Hypericum curvisepalum* (Clusiaceae); WAN E JIN SI TAO; Curvedsepal St.John'swort. Isolated compounds: 10883, 10887, 19087.
- T3346 *Hypericum degenii* (Clusiaceae); DI GEN JIN SI TAO; Degen St.John'swort\*. Isolated compounds: 8306.
- T3347 *Hypericum drummondii* (Clusiaceae); DE LA MENG DE JIN SI TAO; Drummond St.John'swort. Isolated compounds: 848, 6606.
- T3348 *Hypericum elodeoides* (Clusiaceae); TING JING BIAN DI JIN; Elodia St.John'swort. Used part: whole herb. TCM Effects: See *Hypericum wightianum*. TCM Indications: See *Hypericum wightianum*. Isolated compounds: 10883, 10887, 19087.
- T3349 *Hypericum erectum* (Clusiaceae); XIAO LIAN QIAO; Erect St.John'swort. Used part: whole herb. TCM Effects: To regulate menstruation and stanch bleeding, dissipate stasis and relieve pain, resolve toxin and disperse swelling. TCM Indications: Blood ejection, hemoptysis, spontaneous external bleeding, hematochezia, flooding and spotting, bleeding due to external injury, menstrual disorder, postpartum galactostasis, knocks and falls, pain in joints due to rheumatism, swelling toxin of sore and boil, poisonous snake bite. Isolated compounds: 5101, 7223, 7224, 7225, 10886, 16268, 16269.
- T3350 *Hypericum faberi* (Clusiaceae); YANG ZI XIAO LIAN QIAO; Faber's St.John'swort. Isolated compounds: 10883, 10886, 10887, 19087.
- T3351 *Hypericum foliosum* (Clusiaceae); DUO YE JIN SI TAO; Leafy St.John'swort\*. Isolated compounds: 21727.
- T3352 *Hypericum forrestii* (Clusiaceae); CHUAN DIAN JIN SI TAO; Forrest's St.John'swort. Isolated compounds: 10887.
- T3353 *Hypericum geminiflorum* (Clusiaceae); SHUANG HUA JIN SI TAO; Biflower St.John'swort\*. Isolated compounds: 8262.
- T3354 *Hypericum henryi* (Clusiaceae); HENG LI DI ER CAO; Henry St.John'swort. Isolated compounds: 2371, 6184, 21152.

- T3355 *Hypericum hirsutum* (Clusiaceae); YING MAO JIN SI TAO; Hairy St.John'swort. Isolated compounds: 15170.
- T3356 *Hypericum japonicum* (Clusiaceae); DI ER CAO; Japanese St.John'swort. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin, dissipate stasis and disperse swelling, relieve pain. TCM Indications: Damp-heat jaundice, diarrhea, dysentery, intestinal welling abscess, pulmonary welling abscess, swelling toxin of welling abscess and boil, nipple moth, mouth sore, red eyes with gall, poisonous snake bite, knocks and falls. Isolated compounds: 380, 852, 2371, 4140, 6184, 8329, 10883, 10887, 11642, 11818, 11819, 11820, 19382, 19383, 19384, 19385, 21152, 22492.
- T3357 *Hypericum lancasteri* (Clusiaceae); ZHAN E JIN SI TAO; Lancaster's St.John'swort. Isolated compounds: 10883, 10887, 18317.
- T3358 *Hypericum laricifolium* (Clusiaceae); LUO YE SONG YE JIN SI TAO; Larch-leaf St.John'swort\*. Isolated compounds: 2887, 9365, 15670, 18317.
- T3359 *Hypericum papuanum* (Clusiaceae). Isolated compounds: 6780, 6781, 6782, 8029, 10220, 10221, 10222, 10884, 10885, 10889, 10929, 10930, 10931, 10932, 10933, 16629, 16630, 16631, 16632, 16633.
- T3360 *Hypericum patulum* (Clusiaceae); JIN SI MEI; Spreading St.John'swort. Used part: whole herb. TCM Effects: To clear heat and rectify damp, resolve toxin, course liver and free network vessels, dispel stasis and relieve pain. TCM Indications: Damp-heat strangury, hepatitis, common cold, tonsillitis, mounting *qi* with unilateral sagging of one testicle, pain in sinews and bones, knocks and falls. Isolated compounds: 10883, 10887, 16730, 18317, 19087.
- T3361 *Hypericum perforatum* (Clusiaceae); GUAN YE LIAN QIAO; Common St.John'swort. Used part: whole herb with root. TCM Effects: To promote astriction and stanch bleeding, regulate menstruation and free milk, clear heat and resolve toxin, disinhibit damp. TCM Indications: Hemoptysis, blood ejection, intestinal wind bleeding, flooding and spotting, bleeding due to external injury, menstrual disorder, galactostasis, jaundice, throat pain, red eyes with gall, urinary tract infection, mouth sore, nose sores, swelling toxin of welling abscess and boil, burns and scalds. Isolated compounds: 2347, 6853, 8026, 10219, 10883, 10886, 10887, 10887, 13875, 14322, 18250, 18317, 18411, 19087, 20011, 20012, 20013, 20015.
- T3362 *Hypericum polyanthemum* (Clusiaceae). Isolated compounds: 10239, 10240, 11294.
- T3363 *Hypericum sampsonii* (Clusiaceae); YUAN BAO CAO; Sampson St.John'swort. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin, quicken blood and regulate menstruation, dispel wind and free network vessels. TCM Indications: Blood ejection, hemoptysis, spontaneous external bleeding, blood strangury, bleeding from wounds, enteritis, dysentery, mammary welling abscess, swollen welling abscess and toxin of clove sore, scalds, snake bite, menstrual disorder, menstrual pain, leukorrhea, knocks and falls, wind-damp impediment pain, pain in lumbus and leg, tinea capitis, mouth sore, eye screen. Isolated compounds: 2915, 5901, 5908, 5909, 6014, 10883, 10886, 10887, 10890, 18317, 20014.
- T3364 *Hypericum* spp. (Clusiaceae). Isolated compounds: 2347, 3551, 16587.
- T3365 *Hypericum subsessile* (Clusiaceae); JI WU BING JIN SI TAO; Subsessile St.John'swort. Isolated compounds: 10883, 10887, 18317.
- T3366 *Hypericum triquetrifolium* (Clusiaceae); SAN LENG YE JIN SI TAO; Triangular-leaf St.John'swort\*. Isolated compounds: 18028.
- T3367 *Hypericum uliginosum* (Clusiaceae); SHI SHENG JIN SI TAO; Wetland St.John'swort\*. Isolated compounds: 22190, 22191.
- T3368 *Hypericum wightianum* (Clusiaceae); BIAN DI JIN; Wight's St.John'swort. Equivalent plant: *Hypericum elodeoides*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, arrest diarrhea. TCM Indications: White mouth sore in children, infant pneumonia, stomatitis, mammary welling abscess, yellow-water sore, poisonous snake bites, diarrhea, enduring dysentery. Isolated compounds: 5182, 10883, 10886, 10887, 18317, 19087.
- T3369 *Hypericum wightianum* subsp. *axillare* (Clusiaceae); CHA YU BIAN DI JIN; Chayu St.John'swort. Isolated compounds: 10887.
- T3370 *Hyphantria cunea*; Female fall webworm moth. Isolated compounds: 15938.
- T3371 *Hypocrella bambusae* (Hypocreaceae); ZHU HONG JUN; Bambusa Hypocrella\*. Used part: stroma. TCM Effects: To dispel wind and eliminate damp, resolve toxin and relieve itch. TCM Indications: Rheumatic arthritis, leukoplakia of vulva. Isolated compounds: 16974.
- T3372 *Hypodematium sinense* (Hypodematiaceae); SHAN DONG ZHONG ZU JUE; Shandong Hypodematium. Used part: whole herb or leaf. TCM Effects: To harmonize stomach and check vomiting, calm liver and quiet spirit. TCM Indications: Nausea, vomiting, dizziness, insomnia. Isolated compounds: 10891.
- T3373 *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (Acanthaceae); QIANG DAO YAO; Purple Hypoestes. Used part: whole herb. TCM Effects: To clear lung and relieve cough, cool blood and stanch bleeding, dissipate stasis and resolve toxin. TCM Indications: Lung heat cough, hemoptysis, blood ejection, spontaneous external bleeding, flooding and spotting, jaundice, diarrhea, stasis swelling from knocks and falls, bleeding knife wound, fracture. Isolated compounds: 2331, 3817, 4983, 9323, 9534, 10164, 10909, 10910, 10911, 10912, 11972, 11973, 11974, 11975, 11978, 11981, 13098, 14264, 14265, 15320, 19777, 20645, 22779.
- T3374 *Hypoestes rosea* (Acanthaceae); DAN HONG QIANG DAO YAO; Rose Hypoestes\*. Isolated compounds: 10894.
- T3375 *Hypoestes serpens* (Acanthaceae); PU FU QIANG DAO YAO; Creeping Hypoestes\*. Isolated compounds: 242, 5923, 6549, 8034, 10257, 10258, 10260, 19761.  
*Hypoestes sinica* = *Hypoestes purpurea*
- T3376 *Hypolepis punctata* [Syn. *Polypodium punctatum*] (Dennstaedtiaceae); JI JUE; Punctate Flakelot Fern. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, promote contraction and stanch bleeding. TCM Indications: Burns and scalds, bleeding due to external injury. Isolated compounds: 10876, 10901, 10902, 10903, 16098, 18098, 18140, 18141, 18143, 18144, 18161.
- T3377 *Hypomyces* sp. (Hypomycetaceae). Isolated compounds: 10904, 10905.
- T3378 *Hypoxylon fuscum* (Xylariaceae); AN ZONG TAN TUAN JUN. Isolated compounds: 4611, 4612, 4613, 21083.
- T3379 *Hyptis fasciculata* (Lamiaceae); CU SHENG SHAN XIANG; Fascicled Bushmint\*. Isolated compounds: 13926, 13927, 14041.
- T3380 *Hyptis pectinata* (Lamiaceae); ZHI SHAN XIANG; Pectinat

Bushmint\*. Used part: leaf. TCM Effects: To resolve heat, relieve cough, expel roundworms<sup>[5509]</sup>. Isolated compounds: 16747, 16748, 16749, 16750, 16751, 16752, 16753, 16754.

T3381 *Hyptis suaveolens* (Lamiaceae); SHE BAI ZI; Wild Spikenard. Used part: stem-leaf. TCM Effects: To resolve exterior and disinhibit damp, move *qi* and dissipate stasis. TCM Indications: Common cold, wind-damp impediment pain, abdominal distention, diarrhea, dysentery, knocks and falls, eczema, dermatitis. Isolated compounds: 20431, 20432.

T3382 *Hyptis tomentosa* (Lamiaceae); RONG MAO SHAN XIANG; Tomentose Bushmint\*. Isolated compounds: 19777.

T3383 *Hyptis verticillata* (Lamiaceae); LUN SHENG SHAN XIANG; Verticillate Bushmint\*. Isolated compounds: 2847, 5074, 20249.

*Hyssopus lophanthoides* = *Isodon lophanthoides*

T3384 *Hyssopus officinalis* (Lamiaceae); SHEN XIANG CAO; Medicinal Hyssop. Isolated compounds: 20570, 20571.

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T3385 *Iberis amara* (Brassicaceae); QU QU HUA; Rocket Candytuft. Isolated compounds: 4323, 8598.

T3386 *Iberis umbellata* (Brassicaceae); SAN XING QU QU HUA; Globe Candytuft. Isolated compounds: 4317, 4319, 4320.

T3387 *Idesia polycarpa* (Flacourtiaceae); SHAN TONG ZI; Manyfruit Idesia. Used part: leaf. TCM Effects: To clear heat and cool blood, dissipate stasis and disperse swelling. TCM Indications: Fracture, burns and scalds, bleeding due to external injury, blood ejection. Isolated compounds: 5068.

T3388 *Ilex chinensis* [Syn. *Ilex purpurea*] (Aquifoliaceae); SI JI QING; Purpleflower Holly. Used part: leaf. TCM Effects: To clear heat and resolve toxin, close sores and engender flesh, quicken blood and stanch bleeding. TCM Indications: Angina pectoris, coronary heart disease, thrombophlebitis, thromboangiitis obliterans (Buerger's disease), lung heat cough, swelling pain in throat, dysentery, diarrhea, infection of biliary tract, urinary tract infection, burns and scalds, heat toxin swollen welling abscess, ulcer of lower limb, eczema, frostbite, cracking, wound, bleeding due to external injury. Isolated compounds: 2887, 5763, 10982, 16767, 17968, 18942, 20569.

T3389 *Ilex cornuta* (Aquifoliaceae); GOU GU SHU PI; Chinese Holly Bark. Used part: bark. TCM Effects: To supplement *yin*, boost liver and kidney, strengthen lumbus and legs. TCM Indications: Liver kidney vacuity, weakness in lumbus and knees. Isolated compounds: 618, 2858, 2892, 13098.

T3390 *Ilex cornuta* (Aquifoliaceae); GOU GU YE; Chinese Holly Leaf. Used part: leaf. TCM Effects: To clear vacuity heat, boost liver and kidney, dispel wind-damp. TCM Indications: *Yin* vacuity taxation fever, cough and hemoptysis, dizzy head and vision, limp aching lumbus and knees, wind-damp impediment pain, white patch wind. Isolated compounds: 618, 10985, 10986, 17697, 22270.

T3391 *Ilex dumosa* (Aquifoliaceae); GUAN CONG DONG QING; Shrubby Holly\*. Isolated compounds: 19342, 19343, 19344, 19345.

T3392 *Ilex kudingcha* (Aquifoliaceae); KU DING CHA DONG QING; Kudinchu Holly. Used part: leaf. TCM Effects: See *Ilex latifolia*. TCM Indications: See *Ilex latifolia*. Isolated compounds: 10968, 10969,

10970, 10971, 10972, 10973, 10974, 10975, 10976, 10977, 10978, 10979, 10980, 12297, 12298, 12299, 12300, 12301, 12302, 12303, 12304, 12305, 12306.

T3393 *Ilex latifolia* (Aquifoliaceae); DA YE DONG QING; Broadleaf Holly. Equivalent plant: *Ilex kudingcha*. Used part: leaf. TCM Effects: To dissipate wind-heat, clear head and eyes, eliminate vexation and allay thirst. TCM Indications: Headache, toothache, red eyes, otitis media, febrile diseases with vexation and thirst, dysentery. Isolated compounds: 1113, 12547, 12548, 12549, 12550, 12551, 12552, 12553, 12554, 12555, 12556, 12557, 12558, 13098, 22288.

*Ilex leptota* = *Evodia leptota*

T3394 *Ilex paraguariensis* (Aquifoliaceae); BA LA GUI CHA; Paraguay Tea. Used part: leaf. TCM Effects: To clear heat and resolve toxin, eliminate inflammation, suppress cough and dispel phlegm, promote contraction, disinhibit urine, free stool, induce sweat<sup>[5509]</sup>. TCM Indications: Rheumatis, scurvy, heart disease, stomach disease, diabetes<sup>[5509]</sup>. Isolated compounds: 2892, 13599, 13600, 13601, 13602.

T3395 *Ilex pedunculosa* (Aquifoliaceae); CHANG GENG DONG QING; Longpedicel Holly. Used part: leaf, branch-leaf. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and stanch bleeding. TCM Indications: Wind-damp impediment pain, bleeding due to external injury, knocks and falls, cracking of skin, scar. Isolated compounds: 16766.

T3396 *Ilex pubescens* (Aquifoliaceae); MAO DONG QING; Pubescent Holly. Equivalent plant: *Ilex pubescens* var. *glaber*. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and free network vessels. TCM Indications: Angina pectoris, acute myocardial infarction, cerebral thrombosis, thrombophlebitis, thromboangiitis obliterans (Buerger's disease), central retinitis, central angiospastic retinitis, wind-heat common cold, lung heat cough asthma, sore pharynx, nipple moth, gum swelling and pain, chest impediment and heart pain, wind stroke with hemiplegia, erysipelas, burns and scalds, welling abscess and flat abscess. Isolated compounds: 6175, 10981, 22615.

T3397 *Ilex pubescens* var. *glaber* (Aquifoliaceae); TU MAO DONG QING; Glabrous Holly\*. Used part: root. TCM Effects: See *Ilex pubescens*. TCM Indications: See *Ilex pubescens*. Isolated compounds: 5750, 19542.

*Ilex purpurea* = *Ilex chinensis*

T3398 *Ilex rotunda* (Aquifoliaceae); JIU BI YING; Ovateleaf Holly. Used part: bark. TCM Effects: To clear heat and resolve toxin, disinhibit damp and relieve pain. TCM Indications: Common cold with fever, swelling pain in throat, stomachache, summerheat-damp diarrhea, jaundice, dysentery, knocks and falls, wind-damp impediment pain, eczema, sore and boil. Isolated compounds: 1113, 4246, 16766, 18942, 19089, 19911.

T3399 *Illicium anisatum* (Illiciaceae); RI BEN MANG CAO; Japanese Anisetree. Isolated compounds: 1283, 1285, 1286, 18018.

T3400 *Illicium difengpi* (Illiciaceae); DI FENG PI; Difengpi Anisetree. Equivalent plant: *Illicium majus*. Used part: bark. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain. TCM Indications: Pain in joints due to rheumatism, taxation damage in lumbar muscle, centipede bite. Isolated compounds: 462, 5504, 13482,

- 13483.
- T3401 *Illicium henryi* (Illiciaceae); HONG HUI XIANG; Henry Anisetree. Used part: fruit. TCM Effects: To quicken blood and relieve pain, dispel wind and eliminate damp. TCM Indications: Knocks and falls, wind-cold-damp impediment, pain in lumbus and legs. Isolated compounds: 1283, 5204, 18018.
- T3402 *Illicium jiadifengpi* (Illiciaceae); JIA DI FENG PI; Jiadifengpi Anisetree. Isolated compounds: 5, 4952, 4953, 6817, 6887, 7010, 9975, 11868, 13409, 15432, 16308, 16309, 16395.
- T3403 *Illicium majus* (Illiciaceae); DA BA JIAO; Big Anisetree\*. Used part: bark. TCM Effects: See *Illicium difengpi*. TCM Indications: See *Illicium difengpi*. Isolated compounds: 15432, 18051.
- T3404 *Illicium merrillianum* (Illiciaceae). Isolated compounds: 320, 1283, 1285, 1286, 2809, 2812, 4523, 4811, 4896, 4917, 5193, 5203, 5474, 5805, 9954, 9955, 9969, 9987, 9989, 10667, 13789, 16219, 16679, 18051, 20716.
- T3405 *Illicium minwanense* (Illiciaceae); MIN WAN BA JIAO; Minwan Anisetree. Isolated compounds: 4, 5204, 7068, 9989, 9990, 9991, 10668, 14704, 14875, 14876, 14877, 14877, 16413, 18018, 18051, 19805.
- T3406 *Illicium religiosum* (Illiciaceae); DONG DU HUI; Religious Anisetree\*. Isolated compounds: 19121, 19805.
- T3407 *Illicium simonsii* (Illiciaceae); YUN NAN BA JIAO; Yunnan Anisetree. Used part: ripe fruit or leaf. TCM Effects: To engender flesh and kill worms. TCM Indications: Enduring sores, scab sore. Isolated compounds: 16311.
- T3408 *Illicium tsangii* (Illiciaceae); DU AI BA JIAO; Poisonous-shrub Anise\*. Isolated compounds: 9733, 9734, 10242, 10243, 10689, 10690, 11304.
- T3409 *Illicium verum* (Illiciaceae); BA JIAO HUI XIANG; Star Anise. Used part: fruit. TCM Effects: To warm yang and dissipate cold, rectify qi and relieve pain. TCM Indications: Cold mounting with abdominal pain, kidney vacuity lumbago, vomiting with stomach cold, cold pain in stomach duct and abdomen, septicemia. Isolated compounds: 1184, 1185, 1186, 1282, 1284, 1289, 6310, 7385, 7853, 13883, 14062, 14063, 14064, 14065, 14066, 14067, 18261, 18407, 22384, 22385.
- T3410 *Impatiens balsamina* (Balsaminaceae); FENG XIAN; Garden Balsam. Used part: stem. TCM Effects: To dispel wind-damp, quicken blood and relieve pain, resolve toxin. TCM Indications: Wind-damp impediment pain, pain from arthritis, painful swelling from knocks and falls, amenorrhea, dysmenorrhea, swollen welling abscess, erysipelas, goose-foot wind, snake or insect bites. Isolated compounds: 1500, 11027, 21811.
- T3411 *Impatiens balsamina* (Balsaminaceae); FENG XIAN HUA; Garden Balsam Flower. Used part: flower. TCM Effects: To dispel wind and quicken blood, disperse swelling and relieve pain. TCM Indications: Rheumatism numbness, lumbar and rib-side pain, amenorrhea and dysmenorrhea, postpartum blood stasis, knocks and falls, welling abscess and flat abscess, clove sore, goose-foot wind, ashen nail. Isolated compounds: 5011, 12580, 13456, 16777.
- T3412 *Impatiens balsamina* (Balsaminaceae); JI XING ZI; Garden Balsam Seed. Used part: ripe seed. TCM Effects: To break blood and soften hard, disperse accumulation. TCM Indications: Concretion and conglomeration, lump glomus, amenorrhea, dysphagia-occlusion. Isolated compounds: 1500, 5200, 9651, 12580, 16667, 20566.
- T3413 *Impatiens nolitangere* (Balsaminaceae); SHUI JIN FENG; Lightyellow Snapweed. Used part: root or whole herb. TCM Effects: To quicken blood and regulate menstruation, dispel wind and eliminate damp. TCM Indications: Menstrual disorder [ = menoxenia], dysmenorrhea, menstrual block, knocks and falls, wind-damp impediment pain, leg qi swelling and pain, damp-swelling in scrotum, lichen sore, lai sore. Isolated compounds: 13127.
- T3414 *Impatiens sicutifer* (Balsaminaceae); HUANG JIN FENG; Incurvedspur Snapweed. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and disperse swelling, clear heat and resolve toxin. TCM Indications: Wind-damp bone pain, rheumatism numbness, knocks and falls, burns and scalds. Isolated compounds: 4140, 20168.
- T3415 *Imperata cylindrica* (Poaceae); YIN DU BAI MAO; Cogon Satintail. Isolated compounds: 11234.
- T3416 *Imperata cylindrica* var. *major* (Poaceae); BAI MAO GEN<sup>(1)</sup>; Lalang Grass Rhizome. Used part: rhizome. TCM Effects: To cool blood and stanch bleeding, clear heat and engender liquid, disinhibit urine and free strangury. TCM Indications: Acute nephritis with edema, acute glomerulonephritis, chronic glomerulonephritis, acute hepatitis, blood ejection due to blood heat, spontaneous external bleeding, hematuria, febrile diseases with vexation and thirst, jaundice, edema, heat strangury with inhibited pain, measles papules. Isolated compounds: 1178, 1823, 3907, 4545, 4546, 11000, 19901.
- T3417 *Imperata cylindrica* var. *major* (Poaceae); MAO CAO YE; Lalang Grass Leaf. Used part: leaf. TCM Effects: To dispel wind and eliminate damp. TCM Indications: Wind-damp impediment pain, wind papules. Isolated compounds: 1615, 1616, 4546, 7759, 16294.
- T3418 *Incarvillea arguta* (Bignoniaceae); MA TONG HUA; Sharptooth Incarvillea. Used part: whole herb with rhizome. TCM Effects: To fortify spleen and disinhibit damp, move qi and quicken blood. TCM Indications: Diarrhea, dysentery, stomachache, pain in rib-side, wind-damp pain, menstrual disorder, swollen welling abscess, fracture. Isolated compounds: 1676, 1677, 1678, 4995, 5189.
- T3419 *Incarvillea dissectifoliola* (Bignoniaceae); SHEN LIE YE JIAO HAO; Deep-lobed-leaf Incarvillea\*. Isolated compounds: 6518.
- T3420 *Incarvillea sinensis* (Bignoniaceae); JIAO HAO; Chinese Incarvillea. Used part: whole herb. TCM Effects: To dispel wind-damp, resolve toxin, kill worms. TCM Indications: Wind-damp impediment pain, knocks and falls, mouth sore, gingiva ulcerating, ear sore, eczema, scab and lichen, trichomonas vaginalis. Isolated compounds: 11006, 11007, 11008, 11009, 11010, 11011.
- T3421 *Indigofera arrecta* (Fabaceae); ZHI LI DIAN LAN. Isolated compounds: 12018.
- T3422 *Indigofera heteranthazha* (Fabaceae); YI HUA MU LAN; Different-flowered Indigo. Isolated compounds: 13252, 13261, 16886.
- T3423 *Indigofera tinctoria* (Fabaceae); MU LAN<sup>(2)</sup>; True Indigo. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Encephalitis B, parotitis, acute pharyngolaryngitis, red eyes, lymphmoditis, mouth sore, swollen welling abscess, sore and boil, erysipelas, scab and lichen, snake or insect bites, blood ejection. Isolated compounds: 4872, 4898, 11014,



- 11023, 11024.
- T3424 *Inga umbellifera* (Fabaceae); SAN XING HUA XU YIN JIA; Inga\*. Isolated compounds: 3310, 3311, 3312, 3313, 3314.
- T3425 *Inonotus hispidus* (Polyporaceae); CU YING MAO XIAN KONG JUN. Isolated compounds: 9567.
- T3426 *Inula britannica* (Asteraceae); DA HUA XUAN FU HUA CAO; British Inula Herb. Used part: aerial parts. TCM Effects: See *Inula japonica*. TCM Indications: See *Inula japonica*. Isolated compounds: 2615, 10353, 16035, 18372, 18399.
- T3427 *Inula britannica* (Asteraceae); XUAN FU HUA; British Inula. Equivalent plant: *Inula linariaefolia*, *Inula britannica* var. *chinensis*. Used part: capitulum. TCM Effects: To downbear *qi*, disperse phlegm, move water, check vomiting. TCM Indications: Wind-cold cough, glomus fullness in chest and diaphragm, cough and asthma, abundant phlegm, vomiting and eructation, hard glomus below heart. Isolated compounds: 2052, 2887, 3551, 4135, 5763, 6918, 7557, 7768, 9818, 11111, 11642, 12020, 16728, 17765, 18316, 18317, 19187, 19542, 20566, 20704.
- T3428 *Inula britannica* var. *chinensis* (Asteraceae); ZHONG GUO XUAN FU HUA; Chinese Inula. Used part: capitulum. TCM Effects: See *Inula britannica*. TCM Indications: See *Inula britannica*. Isolated compounds: 2052, 4680, 8047, 11111, 12020, 15203, 17765, 18317, 20281, 20704.
- T3429 *Inula eupatorioides* (Asteraceae); ZE LAN YANG ER JU; Eupatoriumlike Inula. Isolated compounds: 7075.
- T3430 *Inula grandis* (Asteraceae); DA YE TU MU XIANG; Largeleaf Inula. Isolated compounds: 834, 8982, 11203.
- T3431 *Inula helenium* (Asteraceae); TU MU XIANG; Elecampane Inula. Equivalent plant: *Inula racemosa*. Used part: root. TCM Effects: To fortify spleen and harmonize stomach, regulate *qi* and resolve depression, relieve pain and quiet fetus. TCM Indications: Distending pain in chest and rib-side, distending pain in stomach duct, vomiting and diarrhea, contusion in chest and rib-side, forking *qi* with pain, stirring fetus in pregnancy. Isolated compounds: 149, 834, 5648, 11203.
- T3432 *Inula helianthus-aquatica* (Asteraceae); SHUI CHAO YANG; Aquatic-sunflower Inula. Used part: flower. TCM Effects: To dispel wind and downbear fire, eliminate inflammation and move water, resolve toxin. TCM Indications: Common cold with headache, chest oppression with cough asthma, ascites, acute conjunctivitis, wind-fire toothache, mammary welling abscess. Isolated compounds: 7239.
- T3433 *Inula japonica* (Asteraceae); JIN FEI CAO; Japanese Inula. Equivalent plant: *Inula britannica*. Used part: aerial parts. TCM Effects: To downbear *qi*, disperse phlegm, move water. TCM Indications: Wind-cold cough, phlegm congestion and *qi* counterflow, glomus fullness in chest and diaphragm, cough and asthma with abundant phlegm, painful swelling from clove sore. Isolated compounds: 236, 1888, 2615, 5648, 5741, 6114, 9754, 9756, 9770, 10111, 11108, 11109, 11110, 11111, 11120, 11203, 11795, 13137, 20704, 21443, 21444, 22746, 22747.
- T3434 *Inula linariaefolia* (Asteraceae); XIAN YE XUAN FU HUA; Linearleaf Inula. Used part: capitulum. TCM Effects: See *Inula britannica*. TCM Indications: See *Inula britannica*. Isolated compounds: 2615, 11111.
- T3435 *Inula magnifica* (Asteraceae); MEI LI XUAN FU HUA; Beautiful Inula\*. Isolated compounds: 834.
- T3436 *Inula nervosa* (Asteraceae); XIAN MAI XUAN FU HUA; Veined Inula. Used part: root. TCM Effects: To dispel wind-damp, free channels and network vessels, disperse accumulation and relieve pain. TCM Indications: Wind-damp pain, cold pain in stomach duct and abdomen, food accumulation abdominal distention, dysphagia-occlusion, beriberi. Isolated compounds: 5921, 6375.
- T3437 *Inula racemosa* (Asteraceae); ZONG ZHUANG TU MU XIANG; Racemose Inula. Used part: root. TCM Effects: See *Inula helenium*. TCM Indications: See *Inula helenium*. Isolated compounds: 834, 11203, 11203.
- T3438 *Inula royleana* (Asteraceae); XI MA XUAN FU HUA; Himalayan Inula. Isolated compounds: 1366, 11203, 13189, 18971.
- T3439 *Inula* sp. (Asteraceae). Isolated compounds: 11794.
- T3440 *Inula verbascifolia* (Asteraceae); MAO RUI HUA YE TU MU XIANG; Mulleinleaf Inula\*. Isolated compounds: 474, 475, 14667.
- T3441 *Inula viscosa* (Asteraceae); NIAN XING TU MU XIANG; Woody Fleabane. Isolated compounds: 20791.
- T3442 *Iotrochota baculifera* XIAO BANG XIOU QIOU HAI MIAN; Sponge *Iotrochota baculifera*. Isolated compounds: 11124, 20224.
- T3443 *Iphigenia indica* (Liliaceae); CAO BEI MU; Indian Iphigenia. Used part: bulb. TCM Effects: To dissipate binds and relieve pain. TCM Indications: Carcinoma of mammary glands, nasopharyngeal carcinoma, carcinoma of salivary gland, scrofula, swelling of skin, pain wind. Isolated compounds: 3911, 4059, 7901, 13073.
- T3444 *Ipomoea aquatica* [Syn. *Convolvulus repens*; *Ipomoea reptans*] (Convolvulaceae); WENG CAI; Aquatic Morning Glory. Used part: stem-leaf. TCM Effects: To cool blood and clear heat, disinhibit damp and resolve toxin. TCM Indications: Nosebleed(epistaxis), hematochezia, hematuria, constipation, strangury-turbidity, hemorrhoids, swollen welling abscess, fracture, snake or insect bites. Isolated compounds: 13127, 14487.
- T3445 *Ipomoea argyrophylla* (Convolvulaceae); YIN YE SHU; Silverleaf Morningglory\*. Isolated compounds: 3477, 7240, 13255.
- T3446 *Ipomoea asarifolia* (Convolvulaceae); XI XIN YE QIAN NIU; Wildginger-leaf Morning Glory\*. Isolated compounds: 4435, 4437.
- T3447 *Ipomoea batatas* [Syn. *Convolvulus batatas*] (Convolvulaceae); GAN SHU; Sweet Potato. Used part: tuberoid. TCM Effects: To supplement center and harmonize blood, boost *qi* and engender liquid, loosen intestines and stomach, free stool. TCM Indications: Spleen vacuity edema, constipation, toxin swelling of sores. Isolated compounds: 3209, 11130, 11131, 16333.
- T3448 *Ipomoea cairica* [Syn. *Ipomoea palmata*] (Convolvulaceae); WU ZHAO LONG; Cairo Morningglory. Used part: Root or stem-leaf. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury. TCM Indications: Lung heat cough, inhibited urination, strangury, edema, swollen welling abscess and toxin of clove. Isolated compounds: 1621, 7232, 15086, 15806, 21490.
- T3449 *Ipomoea hederacea* (Convolvulaceae); LIE YE QIAN NIU; Lobedleaf Morningglory\*. Isolated compounds: 16808.
- T3450 *Ipomoea obscura* (Convolvulaceae); XIAO XIN YE SHU;

- Smallheartleaved Morningglory. Isolated compounds: 11125, 11126, 11127.
- Ipomoea palmata* = *Ipomoea cairica*
- T3451 *Ipomoea regnellii* (Convolvulaceae); RUI SHI QIAN NIU; Regnell Morningglory\*. Isolated compounds: 18349, 18406.
- Ipomoea reptans* = *Ipomoea aquatica*
- T3452 *Ipomoea tricolor* (Convolvulaceae); SAN SE QIAN NIU; Trichroism Morningglory\*. Isolated compounds: 3477, 13255.
- T3453 *Ipomoea violacea* (Convolvulaceae); QING ZI QIAN NIU; Violet Morningglory\*. Isolated compounds: 3477, 13255.
- T3454 *Iris bungei* (Iridaceae); BENG GE YUAN WEI; Bunge Iris\*. Isolated compounds: 11155, 11156, 11157, 11160, 11161, 11162, 11163, 11166, 11167, 11168, 11169, 11170, 21411.
- T3455 *Iris carthaliniae* (Iridaceae); AI JI ZHONG ZHI YUAN WEI; Egypt Planted Iris. Isolated compounds: 6241, 11180, 14740, 20903.
- T3456 *Iris cristata* (Iridaceae); SHI GUAN YUAN WEI; Crest Iris. Isolated compounds: 7067, 7120, 7148.
- T3457 *Iris dichotoma* (Iridaceae); BAI HUA SHE GAN; Vesper Iris. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling, relieve pain, relieve cough. TCM Indications: Swelling pain in throat, gum swelling and pain, epidemic parotitis, mammary welling abscess, stomachache, hepatitis, liver spleen enlargement, lung heat cough, knocks and falls. Isolated compounds: 5426, 11141, 11154, 11164, 20900, 20901.
- T3458 *Iris florentina* (Iridaceae); XI OU YUAN WEI; Orris. Isolated compounds: 11141, 11141, 11153, 11183, 11184, 15203.
- T3459 *Iris germanica* (Iridaceae); DE GUO YUAN WEI; German Iris. Isolated compounds: 8349, 8350, 11133, 11141, 11152, 11154, 11158, 11159, 11165, 11171, 11172, 20901.
- T3460 *Iris halophila* (Iridaceae); XI YAN YUAN WEI; Salt-loving Iris. Used part: seed. TCM Effects: See *Iris lactea* var. *chinensis*. TCM Indications: See *Iris lactea* var. *chinensis*. Isolated compounds: 9198, 9199.
- T3461 *Iris japonica* (Iridaceae); HU DIE HUA; Fringed Iris. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Hepatitis, liver enlargement, pain in hepatic zone, stomachache, swelling pain in throat, hematochezia. Isolated compounds: 2215, 6769, 11466.
- T3462 *Iris komonoensis* (Iridaceae); RI BEN YUAN WEI; Japanese Iris\*. Isolated compounds: 11141.
- T3463 *Iris kumaonensis* (Iridaceae); XI MA LA YA YUAN WEI; Himalayan Iris\*. Isolated compounds: 11173, 11174, 11175, 11176, 11177, 11178.
- T3464 *Iris lactea* var. *chinensis* [Syn. *Iris pallasii* var. *chinensis*] (Iridaceae); MA LIN ZI; Chinese Iris. Equivalent plant: *Iris halophila*. Used part: seed. TCM Effects: To clear heat and dispel damp, resolve toxin and kill worms, stanch bleeding and settle pain. TCM Indications: Jaundice, strangury-turbidity, inhibited urination [=dysuria], intestinal welling abscess, worm accumulation, malaria, wind-damp pain, throat impediment, toothache, blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting [=metrorrhagia and metrostaxis], swelling of sores, scrofula, mounting *qi* [=hernia], hemorrhoids, scalds, snake bite. Isolated compounds: 11179, 16543, 16544.
- Iris pallasii* var. *chinensis* = *Iris lactea* var. *chinensis*
- T3465 *Iris pallasii* var. *chinensis* (Iridaceae); MA LIN; Chinese Iris. Isolated compounds: 11179.
- T3466 *Iris potaninii* (Iridaceae); JUAN QIAO YUAN WEI; Potanin Iris. Used part: seed. TCM Effects: To clear heat and resolve toxin, expel worms. TCM Indications: Intestinal welling abscess, ascariasis, oxyuria. Isolated compounds: 5426, 6248, 6295, 6338, 11152, 11153, 13964, 21189, 21936.
- T3467 *Iris pseudacorus* (Iridaceae); HUANG CHANG PU; Yellowflag Iris. Isolated compounds: 11179.
- T3468 *Iris sanguinea* (Iridaceae); DOU CHI CAO; Bloodred Iris. Used part: rhizome and root. TCM Effects: To disperse accumulation and move water. TCM Indications: Stomachache, abdominal pain. Isolated compounds: 20505.
- T3469 *Iris* sp. (Iridaceae). Isolated compounds: 117.
- T3470 *Iris spuria* (Iridaceae); JIA YUAN WEI; False Iris\*. Isolated compounds: 11134, 11135, 11136, 11137, 11138, 11139, 11140.
- T3471 *Iris tectorum* (Iridaceae); YUAN WEI; Roof Iris. Used part: leaf or whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and disinherit damp, disperse swelling and relieve pain. TCM Indications: Swelling pain in throat, hepatitis, liver enlargement, cystitis, wind-damp pain, painful swelling from knocks and falls, sore and boil, itchy skin. Isolated compounds: 6769, 11150, 11151, 11154, 11181, 11182, 14144, 20900, 20901, 20904.
- T3472 *Iris tingitana* (Iridaceae); DAN JI ER YUAN WEI; Tingit Iris. Isolated compounds: 833.
- T3473 *Iris unguicularis* (Iridaceae); A ER JI LI YA YUAN WEI; Algerian Iris. Isolated compounds: 11141.
- T3474 *Iryanthera polyneura*. Isolated compounds: 9598.
- T3475 *Isatis indigotica* (Brassicaceae); BAN LAN GEN; Indigowoad Root. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and disinherit throat. TCM Indications: Epidemic encephalitis, measles papulis, parotitis, influenza, warm toxin macular eruption, ardent fever with headache, massive head scourge, throat pain, maculopapular eruption, epidemic parotitis, erysipelas, hepatitis, swelling toxin of sore and welling abscess. Isolated compounds: 618, 1048, 2224, 2806, 5637, 6235, 10643, 11014, 11022, 11023, 11024, 11028, 11030, 11186, 11187, 11190, 12227, 19187, 19909, 19935, 19983, 19984, 20566, 21840, 22059.
- T3476 *Isatis indigotica* (Brassicaceae); DA QING YE; Indigo-coloured Woad Leaf. Equivalent plant: LU BIAN QING. Used part: leaf. TCM Effects: To clear heat and resolve toxin, cool blood and disperse macula. TCM Indications: Acute parotitis, encephalitis, hepatitis, lung abscess, acute gastroenteritis, infection of upper respiratory tract, warm evil in construction, ardent fever with clouded spirit, macular eruption and papules, jaundice, heat dysentery, epidemic parotitis, throat impediment, erysipelas, swollen welling abscess. Isolated compounds: 618, 8589, 8590, 9486, 11014, 11023, 11024, 11188, 15400, 18287, 19983, 19984, 20446, 21334, 22059, 22060.
- T3477 *Isatis tinctoria* (Brassicaceae); OU ZHOU SONG LAN; Dyers Woad. Isolated compounds: 18287, 22059.
- T3478 *Isodon albopilosus* (Lamiaceae); BAI ROU MAO XIANG CHA CAI; Whitepilose Rabdosia. Isolated compounds: 865.
- T3479 *Isodon amethystoides* (Lamiaceae); XIANG CHA CAI; Common

Rabdosia. Used part: aerial parts or root. TCM Effects: Aerial parts: To clear heat and disinhibit damp, quicken blood and dissipate stasis, resolve toxin and disperse swelling; Root: To clear heat and resolve toxin, dispel stasis and relieve pain. TCM Indications: Aerial parts: Damp-heat jaundice, strangury, edema, swelling pain in throat, impediment pain in joints, menstrual block, mammary welling abscess, hemorrhoids, effusion of back, knocks and falls, poisonous snake bite; Root: Poisonous snake bites, swelling toxin of sore and boil, aching sinews and bones, knocks and falls, burns and scalds. Isolated compounds: 528, 1037, 1038, 22635.

- T3480 *Isodon angustifolia* (Lamiaceae); XIA YE XIANG CHA CAI; Narrowleaf Rabdosia\*. Used part: root. TCM Effects: To fortify stomach and harmonize center, quicken blood and free network vessels. TCM Indications: Indigestion, Kersan disease with hypertonicity and pain, carcinoma. Isolated compounds: 1245, 6520.
- T3481 *Isodon angustifolius* var. *glabrescens* (Lamiaceae); MAO GENG XIA YE XIANG CHA CAI; Hairstalk Narrowleaf Rabdosia\*. Isolated compounds: 458, 8462, 8463, 8464, 8465, 8466, 8467, 8468, 8469, 8470, 8471, 8472, 8473, 8474, 8475, 8476, 8477, 8478, 8479, 8480, 8481, 8482, 8483, 8484, 8485, 8486, 18461.
- T3482 *Isodon bulleyana* (Lamiaceae); CANG SHAN XIANG CHA CAI; Cangshan Rabdosia. Isolated compounds: 2743.
- T3483 *Isodon calcicola* (Lamiaceae); JIN WU MAO HUI YAN XIANG CHA CAI; Calcicole Rabdosia. Isolated compounds: 2947, 2949, 2951, 2953, 2954.
- T3484 *Isodon dawoensis* (Lamiaceae); DAO FU XIANG CHA CAI; Dawo Rabdosia. Isolated compounds: 4701.
- T3485 *Isodon effusa* (Lamiaceae); KAI ZHAN XIANG CHA CAI; Spreading Rabdosia\*. Isolated compounds: 6710, 6711, 6712, 6713, 6714, 6715.
- T3486 *Isodon enanderianus* (Lamiaceae); ZI MAO XIANG CHA CAI; Purplehair Rabdosia. Isolated compounds: 6783, 6784, 6785, 6786, 6787, 6788, 6789, 6790, 6791, 6792, 6793, 6794, 6826, 10797, 13649, 13650, 18456, 18457, 18459, 21123, 21564.
- T3487 *Isodon eriocalyx* var. *laxiflora* (Lamiaceae); SHU HUA MAO E XIANG CHA CAI; Laxflower Hairysepal Rabdosia. Isolated compounds: 12583, 12584, 12585, 12586, 12587, 12588, 12589, 12590, 13523, 13537.
- T3488 *Isodon flavidus* (Lamiaceae); DAN HUANG XIANG CHA CAI; Yellowish Rabdosia. Isolated compounds: 7812, 7813, 9545, 10122, 19876.
- T3489 *Isodon flexicaulis* (Lamiaceae); ROU JING XIANG CHA CAI; Flexedstem Rabdosia. Isolated compounds: 7828.
- T3490 *Isodon forrestii* (Lamiaceae); ZI E XIANG CHA CAI; Forrest Rabdosia\*. Isolated compounds: 7915, 7916, 7917, 7918, 7919, 7920, 7921, 11383, 18461, 18462.
- T3491 *Isodon gesnerioides* (Lamiaceae); JU TAI XIANG CHA CAI; Gesnerialike Rabdosia. Isolated compounds: 8366, 8367, 8368, 8369, 8370.
- T3492 *Isodon glutinosa* (Lamiaceae); JIAO NIAN XIANG CHA CAI; Slimy Rabdosia. Isolated compounds: 8791, 8792, 8793, 11384, 11385, 17489.
- T3493 *Isodon henryi* (Lamiaceae); E XI XIANG CHA CAI; Henry Rabdosia. Isolated compounds: 6929, 9362.
- T3494 *Isodon inflexa* [Syn. *Rabdosia inflexa*] (Lamiaceae); NEI ZHE XIANG CHA CAI; Inflexed Rabdosia. Isolated compounds: 11039, 11040, 11041, 11042, 11043, 11044, 11045, 11046, 11047, 11048, 11049, 11050, 11051, 11052, 11053, 11054, 11055, 11056, 18464, 18465, 18484, 18485.
- T3495 *Isodon irrorata* (Lamiaceae); LU ZHU XIANG CHA CAI; Dew Rabdosia. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Common cold, innominate toxin swelling, massive head scourge. Isolated compounds: 11185.
- T3496 *Isodon japonica* [Syn. *Rabdosia japonica*] (Lamiaceae); MAO YE XIANG CHA CAI; Japanese Rabdosia. Used part: leaf. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Hepatitis, gastritis, mastitis, amenorrhea, knocks and falls, pain in joints, snake or insect bites. Isolated compounds: 6804, 6805, 6975, 6976, 11381, 11382, 11392, 11394, 11402, 12123, 12537, 13319, 13544, 13545, 15652, 15653, 15988, 16183, 17717, 18496, 18497, 18498, 18499, 18500, 18978, 19815, 20040, 20620, 20621, 21572.
- T3497 *Isodon japonica* var. *glaucoalyx* (Lamiaceae); LAN E XIANG CHA CAI; Bluesepal Rabdosia\*. Isolated compounds: 393, 8514, 8515, 8516, 8517, 8518, 8519.
- T3498 *Isodon kameba* (Lamiaceae); KA MEI XIANG CHA CAI; Kamei Rabdosia\*. Isolated compounds: 12121, 12122, 12123, 12124, 12125, 12708, 12709, 12710, 12711, 12712.
- T3499 *Isodon kunmingensis* (Lamiaceae); KUN MING XIANG CHA CAI; Kunming Rabdosia\*. Isolated compounds: 18470, 18471, 18472, 18473, 18474.
- T3500 *Isodon lasiocarpa* (Lamiaceae); CU GUO XIANG CHA CAI; Roughfruit Rabdosia\*. Isolated compounds: 3219, 12534, 12536, 12538, 12539, 12540, 18475.
- T3501 *Isodon lasiocarpus* (Lamiaceae); MIAN MAO GUO XIANG CHA CAI; Woollyfruit Rabdosia\*. Isolated compounds: 12537, 16183.
- T3502 *Isodon latifolia* var. *reniformis* (Lamiaceae); SHEN XING XIANG CHA CAI; Reniform Rabdosia\*. Isolated compounds: 18621, 18622.
- T3503 *Isodon leucophyllus* (Lamiaceae); BAI YE XIANG CHA CAI; Whiteleaf Rabdosia\*. Isolated compounds: 2116, 2117, 2118, 3165, 6834, 10749, 10751, 11642, 12719, 12720, 12721, 12722, 12723, 12724, 21184.
- T3504 *Isodon liangshanica* (Lamiaceae); LIANG SHAN XIANG CHA CAI; Liangshan Rabdosia. Isolated compounds: 12739, 12740, 12741, 12742, 12743, 12744, 12745.
- T3505 *Isodon lihsienensis* (Lamiaceae); LI XIAN XIANG CHA CAI; Lihsien Rabdosia. Isolated compounds: 12831.
- T3506 *Isodon lophanthoides* (Lamiaceae); XIAN WEN XIANG CHA CAI; Linearstripe Rabdosia. Isolated compounds: 12990.
- T3507 *Isodon lophanthoides* [Syn. *Rabdosia lophanthoides*; *Hyssopus lophanthoides*; *Plectranthus striatus*; *Isodon striatus*] (Lamiaceae); XI HUA XIAN WEN XIANG CHA CAI; Linearstripe Rabdosia. Used part: whole herb. TCM Effects: See *Rabdosia serra*. TCM Indications: See *Rabdosia serra*. Isolated compounds: 12993, 12994, 12995, 12996, 12997, 12998.
- T3508 *Isodon lophanthoides* var. *gerardiana* (Lamiaceae); XIA JI XIAN WEN XIANG CHA CAI; Gerard Linearstripe Rabdosia\*. Isolated

- compounds: 8331, 8332, 10256, 12991, 12992.
- T3509 *Isodon loxothyrsa* (Lamiaceae); WAN ZHUI XIANG CHA CAI; Bowedconical Rabdosia\*. Isolated compounds: 13013, 18478, 18479.
- T3510 *Isodon lungshengensis* (Lamiaceae); LONG SHENG XIANG CHA CAI; Longshen Rabdosia. Isolated compounds: 11053, 13076, 13077, 13078, 13079, 13080, 13081, 13082, 13083, 13118.
- T3511 *Isodon macrocalyx* (Lamiaceae); DA E XIANG CHA CAI; Largesepal Rabdosia. Isolated compounds: 13304, 13305, 13306, 13307, 13308, 13309, 13310.
- T3513 *Isodon macrocalyx* (Lamiaceae); DA E BIAN XING XIANG CHA CAI; Largesepal Rabdosia. Isolated compounds: 11056, 13311, 13312, 13313, 13314.
- T3512 *Isodon macrocalyx* var. *jiuhua* (Lamiaceae); JIU HUA DA E XIANG CHA CAI; Jiuhua Largesepal Rabdosia. Isolated compounds: 11889.
- T3514 *Isodon megathyrsus* (Lamiaceae); DA ZHUI XIANG CHA CAI; Bigthyrsus Rabdosia. Isolated compounds: 13649, 13650.
- T3515 *Isodon melissoides* (Lamiaceae); BAO YE XIANG CHA CAI; Bractleaf Rabdosia. Isolated compounds: 4701, 13688, 13689, 13690, 13691, 13692, 13693, 13694, 13695, 13696, 13697, 13698, 13699, 13700, 13701, 13702, 13703, 13704, 13705, 13706, 13707, 22798.
- T3516 *Isodon oresbia* (Lamiaceae); SHAN DI XIANG CHA CAI; Montane Rabdosia. Isolated compounds: 620, 6178, 6714, 6804, 6806, 6807, 13529, 15338, 15652, 16176, 16177, 16178, 20040, 21561, 21563, 22270, 22581.
- T3517 *Isodon parvifolia* (Lamiaceae); XIAO YE XIANG CHA CAI; Smallleaf Rabdosia\*. Isolated compounds: 243, 11599, 16683, 16684, 16685, 16686, 16687.
- T3518 *Isodon pharicus* (Lamiaceae); CHUAN ZANG XIANG CHA CAI; Szechwan-Tibet Rabdosia. Isolated compounds: 5696, 11395, 11396, 11397, 11398, 11399, 18075, 18076, 18077, 18078, 18079, 18080.
- T3519 *Isodon phyllostachys* (Lamiaceae); YE SUI XIANG CHA CAI; Leafspike Rabdosia. Isolated compounds: 17226, 17227, 17228.
- T3520 *Isodon rosthornii* (Lamiaceae); YING HUA XIANG CHA CAI; Rosthorn Rabdosia. Used part: whole herb. TCM Effects: To course wind and overcome damp, transform phlegm and relieve cough, dissipate stasis and relieve pain. TCM Indications: Wind damage and common cold, wind-damp impediment pain, cough and abundant phlegm, stasis swelling from knocks and falls. Isolated compounds: 18931, 18932, 18933, 18934, 18935.
- T3521 *Isodon rubescens* var. *lushanensis* (Lamiaceae); LU SHAN XIANG CHA CAI; Lushan Rabdosia\*. Isolated compounds: 6808, 6975, 11055, 11392, 11394, 12536, 13116, 13117, 13118, 13119, 13120, 13121, 13122, 13123, 13124, 16183, 17717, 18499, 18501, 18502.
- T3522 *Isodon rubescens* var. *lushiensis* (Lamiaceae); LU SHI DONG LING CAO; Lushien Rabdosia\*. Isolated compounds: 1245, 6826, 9080, 9081, 9082, 13066, 13067, 13068, 13069, 13070, 13071, 16758, 18317, 19579.
- T3523 *Isodon rugosus* [Syn. *Rabdosia rugosa*] (Lamiaceae); ZHOU YE XIANG CHA CAI; Rugose Rabdosia\*. Isolated compounds: 5554, 5650, 5704, 6710, 6711, 6714, 12537, 16183, 19049, 19061.
- T3524 *Isodon sculponeata* [Syn. *Rabdosia sculponeata*] (Lamiaceae); HUANG HUA XIANG CHA CAI; Yellowflower Rabdosia. Used part: whole herb. TCM Effects: To resolve toxin, disinhibit damp, rectify qi.
- TCM Indications: Dysentery abdominal pain, foot lichen. Isolated compounds: 19574, 19575, 19576, 19577, 19578.
- T3525 *Isodon setschwanensis* (Lamiaceae); SI CHUAN XIANG CHA CAI; Sichuna Rabdosia. Isolated compounds: 18490, 18491, 18492, 18493.
- T3527 *Isodon shikokiana* var. *occidentalis* (Lamiaceae); XI SI GUO XIANG CHA CAI; West-Shiko Rabdosia\*. Isolated compounds: 7201, 14409, 14727, 19806, 19807.
- T3526 *Isodon shikokiana* var. *intermedius* (Lamiaceae); JIAN XING SI GUO XIANG CHA CAI; Intermediate Shiko Rabdosia\*. Isolated compounds: 11386, 19808, 19809, 19810, 19811, 19812.
- Isodon striatus* = *Isodon lophanthoides*
- T3528 *Isodon ternifolia* (Lamiaceae); NIU WEI CAO XIANG CHA CAI; Ternateleaf Rabdosia. Used part: whole herb or root. TCM Effects: To clear heat, disinhibit damp, resolve toxin, stanch bleeding. TCM Indications: Common cold, influenza, cough with profuse phlegm, swelling pain in throat, toothache, jaundice, heat strangury, edema, dysentery, enteritis, bleeding due to external injury. Isolated compounds: 11393, 11400, 11401, 18501, 18502, 18503, 18504, 18505, 18506, 18507, 20979.
- T3529 *Isodon ternifolius* (Lamiaceae); CHONG YA YAO; Ternateleaf Rabdosia. Used part: whole herb or root. TCM Effects: To clear heat, disinhibit damp, resolve toxin, stanch bleeding. TCM Indications: Common cold, influenza, cough with profuse phlegm, swelling pain in throat, toothache, jaundice, heat strangury, edema, dysentery, enteritis, bleeding due to external injury. Isolated compounds: 11400, 11401, 18508, 22270.
- T3530 *Isodon trichocarpa* (Lamiaceae); MAO GUO XIANG CHA CAI; Hairyfruit Rabdosia\*. Isolated compounds: 5605, 6770, 6771, 6803, 6804, 6806, 6808, 16183, 21561, 21563, 21564, 21565, 21566, 21567, 21568, 21569, 21570, 21571, 21572, 21573, 21574.
- T3531 *Isodon trichocarpus* (Lamiaceae); HEI HUA YAN MING CAO; Blackflower Rabdosia\*. Isolated compounds: 11382, 15652.
- T3532 *Isodon umbrosa* (Lamiaceae); YIN DI KUAN YE XIANG CHA CAI; Shady Broadleaf Rabdosia\*. Isolated compounds: 3950, 3952, 3954, 3955, 3957, 18509, 22200, 22201, 22202.
- T3533 *Isodon umbrosa* var. *latifolia* (Lamiaceae); YIN DI XIANG CHA CAI; Shady Rabdosia\*. Isolated compounds: 12121, 12122, 12123, 12124, 12125, 12712, 13629, 18463, 18476.
- T3534 *Isodon weisiensis* (Lamiaceae); WEI XI XIANG CHA CAI; Weisi Rabdosia. Isolated compounds: 22657.
- T3535 *Isodon wikstroemioides* (Lamiaceae); YAO HUA XIANG CHA CAI; Stringbushlike Rabdosia. Isolated compounds: 22669, 22670, 22671, 22672.
- T3536 *Isodon xerophilus* (Lamiaceae); HAN SHENG XIANG CHA CAI; Dry-living Rabdosia. Isolated compounds: 6785, 12958, 18504, 18931, 22786, 22787, 22788, 22789, 22790, 22791, 22792, 22793, 22794, 22795.
- T3537 *Isolona cauliflora* (Annonaceae); JING SHENG HUA AI SUO LUO NA. Isolated compounds: 3336, 3337, 3338, 3339.
- T3538 *Isolona maitlandii* (Annonaceae). Isolated compounds: 15797.
- T3539 *Isoplexis scaptrum* (Plantaginaceae). Isolated compounds: 19462.
- T3540 *Isopyrum thalictroides* (Ranunculaceae); TANG SONG CAO ZHUANG BIAN GUO CAO; Meadowruelike Isopyrum. Isolated

compounds: 11640, 11641, 11737.

- T3541 *Isotoma longiflora* [Syn. *Laurentia longiflora*] (Campanulaceae); TONG BAN CAO; Longflower *Laurentia*. Isolated compounds: 12937.
- T3542 *Iva asperifolia* (Asteraceae); CAO YE YI WA JU. Isolated compounds: 1888.
- T3543 *Iva frutescens* (Asteraceae); YI WA JU; Sumpweed. Isolated compounds: 3388, 9564.
- T3544 *Iva microcephala* (Asteraceae). Isolated compounds: 18029.
- T3545 *Iva nevadensis* (Asteraceae); NEI HUA YI WA JU. Isolated compounds: 16674.
- T3546 *Iva* sp. (Asteraceae). Isolated compounds: 4087.
- T3547 *Ixeris chinensis* (Asteraceae); SHAN KU MAI; China *Ixeris*. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, disperse swelling and expel pus, cool blood and stanch bleeding. TCM Indications: Intestinal welling abscess, pulmonary welling abscess, lung heat cough, enteritis, dysentery, cholecystitis, pelvic inflammation, swelling toxin of sore and boil, scrotal eczema, blood ejection, spontaneous external bleeding, flooding, knocks and falls. Isolated compounds: 3533, 3534, 3535, 11798, 11802, 11803, 12446.
- T3548 *Ixeris sonchifolia* (Asteraceae); BAO JING KU MAI CAI; Sowthistle-leaf *Ixeris*. Used part: whole herb. TCM Effects: To relieve pain and disperse swelling, clear heat and resolve toxin. TCM Indications: Headache, toothache, stomachache, postoperative pain, painful wound from knocks and falls, appendicitis, enteritis, pulmonary abscess, sore swollen throat, swelling welling abscess and sore and boil. Isolated compounds: 618, 11799, 11800, 11801, 20703.
- T3549 *Ixora chinensis* (Rubiaceae); LONG CHUAN HUA; Chinese *Ixora*. Used part: flower. TCM Effects: To clear heat and cool blood, dissipate stasis and relieve pain. TCM Indications: Hypertension, menstrual disorder, amenorrhea, knocks and falls, swelling of sores and boils. Isolated compounds: 8277.
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- T3550 *Jackiella javanica* (Hepaticae); ZHAO WA JIA KE TAI; Japanese liverwort. Isolated compounds: 4303, 7218, 7502, 22429, 22430.
- T3551 *Jamesonia scammanae*. Isolated compounds: 18154.
- T3552 *Jamesoniella autumnalis* (Jungermanniaceae); QIU YUAN YE TAI. Isolated compounds: 6999.
- T3553 *Jamesoniella colorata* (Jungermanniaceae); YUAN YE TAI; *Jamesoniella colorata*. Isolated compounds: 6474, 9478, 10302, 10568, 10569, 10570, 11813, 11814, 11815, 16369, 22626.
- T3554 *Jasminum grandiflorum* (Oleaceae); SU XIN HUA; Largeflower Jasmine\*. Used part: flower bud. TCM Effects: To soothe the liver and resolve depression, move *qi* and relieve pain. TCM Indications: Pain in stomach duct and rib-side due to liver *qi* depression, abdominal pain and diarrhea. Isolated compounds: 11824, 11825.
- T3555 *Jasminum nudiflorum* (Oleaceae); YING CHUN HUA; Winter Jasmine. Used part: leaf. TCM Effects: To clear heat, resolve toxin, disinhibit damp. TCM Indications: Common cold with fever, dribbling pain of urination, pruritus of vulva, swelling toxin malign sore, knocks and falls, bleeding knife wound. Isolated compounds: 11575, 11826, 11827, 11828, 11829, 11830, 11831, 11832, 15863.
- T3556 *Jasminum officinale* (Oleaceae); SU FANG HUA; Common White Jasmine. Isolated compounds: 11824.
- T3557 *Jasminum sambac* (Oleaceae); MO LI HUA; Arabian Jasmine. Used part: flower. TCM Effects: To rectify *qi* and relieve pain, repel foulness and open depression. TCM Indications: Dysentery, dizziness and headache, red eyes, sore toxin. Isolated compounds: 7391, 11824, 12851, 14540.
- T3558 *Jasminum* sp. (Oleaceae). Isolated compounds: 11025.
- T3559 *Jateorhiza palmata* (Menispermaceae); FEI ZHOU FANG JI; Calumba Root. Isolated compounds: 3484, 16551, 16555.
- T3560 *Jatropha curcas* (Euphorbiaceae); MA FENG SHU; Leprous Tree. Used part: bark and leaf. TCM Effects: To dissipate stasis and disperse swelling, stanch bleeding, relieve pain, kill worms and relieve itch. TCM Indications: Stasis swelling from knocks and falls, fracture and pain, contusion in joints, bleeding from wounds, leprosy (leprosy), scab and lichen, eczema, tinea capitis, ulcer of lower limb, foot lichen, trichomonas vaginalis. Isolated compounds: 254, 385, 3510, 6043, 11836, 11837, 11838, 11839, 11840, 11841, 11842, 11848, 11850, 16552, 16553, 16554.
- T3561 *Jatropha gossypifolia* (Euphorbiaceae); MIAN YE MA FENG SHU; Cotton-leaf Leprous Tree\*. Isolated compounds: 11849.
- T3562 *Joannesia princeps* (Euphorbiaceae); BA XI QIAO AN MU; Brazilian Joan-wood\*. Isolated compounds: 2440, 11212, 11213, 11214, 11215, 11612, 17860.
- T3563 *Juglans cinerea* (Juglandaceae); HUI HU TAO; Butternut. Isolated compounds: 3983.
- T3564 *Juglans mandshurica* (Juglandaceae); HU TAO QIU; Manchurian Walnut. Used part: bark. TCM Effects: To clear heat and dry damp, drain liver and brighten eyes. TCM Indications: Damp-heat dysentery, yellow thick vaginal discharge, red eyes with gall, sty, tearing with wind, bone tuberculosis. Isolated compounds: 5373, 5374, 5375, 10187, 10747, 18588.
- T3565 *Juglans mandshurica* var. *sieboldiana* (Juglandaceae); DONG BEI HU TAO; Northeast Walnut\*. Isolated compounds: 6005, 6006, 6007, 6145, 10460, 10461, 10746, 10747, 11898, 11899, 11900, 11901, 11902, 15253, 18588.
- T3566 *Juglans nigra* (Juglandaceae); HEI HU TAO; Black Walnut. Isolated compounds: 11903, 15184, 19910.
- T3567 *Juglans regia* (Juglandaceae); HU TAO QING PI; English Walnut Exocarp. Used part: exocarp. TCM Effects: To relieve pain, relieve cough, check diarrhea, resolve toxin, kill worms. TCM Indications: Pain in stomach duct and abdomen, dysmenorrhea, enduring cough, chronic diarrhea and dysentery, swelling toxin of welling abscess and sore, intractable lichen, bald sores, white patch wind. Isolated compounds: 9719, 9720.
- T3568 *Juglans regia* (Juglandaceae); HU TAO REN; English Walnut Seed. Used part: seed. TCM Effects: To supplement kidney and boost essence, warm lung and settle asthma, moisten intestines and free stool. TCM Indications: Enduring cough and asthma, bronchitis, lumbago and limp leg, frequent urination, enuresis, impotence, emission, intestinal dry and constipation, stone strangury, sores and scrofula. Isolated compounds: 617, 618, 2331, 3301, 3303, 3774, 5521, 7518, 8504, 8505, 8506, 9502, 9719, 9720, 10536, 11903, 12850, 14612,

- 15255, 16765, 17754, 19056, 19277, 20256, 20310, 20389, 20910.
- T3569 *Juglans regia* (Juglandaceae); HU TAO SHU PI; English Walnut Bark. Used part: bark. TCM Effects: To astringe intestines and check diarrhea, resolve toxin, relieve itch. TCM Indications: Diarrhea, dysentery, leprosy, scrotal wind, itchy skin. Isolated compounds: 18588.
- T3570 *Juglans regia* (Juglandaceae); HU TAO YE; English Walnut Leaf. Used part: leaf. TCM Effects: To promote contraction and check discharge, kill worms, disperse swelling. TCM Indications: Vaginal discharge, scab sore, elephantiasis. Isolated compounds: 6731, 8095, 9721, 11897, 15926.
- T3571 *Juglans* sp. (Juglandaceae). Isolated compounds: 19174.
- T3572 *Juglans* spp. (Juglandaceae). Isolated compounds: 10887, 16765.
- T3573 *Juliania adstringens* (Julianiaceae). Isolated compounds: 6470, 6471, 6478, 10089, 10090, 10363, 10364, 10585, 10586, 13591, 15931, 16050, 16402, 19983.
- T3574 *Junceella fragilis* (Gorgonidae); CUI DENG XIN LIU SHAN HU; Gorgonian *Junceella fragilis*. Isolated compounds: 5296, 11944, 11947, 11948, 17755.
- T3575 *Junceella gemmacea* (Gorgonidae); LEI DENG XIN LIU SHAN HU; Gorgonian *Junceella gemmacea*. Isolated compounds: 5296.
- T3576 *Junceella juncea* (Gorgonidae); DENG XIN LIU SHAN HU; Gorgonian *Junceella juncea*. Isolated compounds: 8264, 8265, 10548, 11945, 11946, 11949, 11950, 11951, 11952, 11953, 11954, 11955, 11956, 11957, 17755.
- T3577 *Juncus acutus* (Juncaceae); JIAN DENG XIN CAO; Acute Rush\*. Isolated compounds: 5861, 6046, 6223, 7403, 17274.
- T3578 *Juncus effusus* (Juncaceae); DENG XIN CAO; Common Rush. Used part: whole herb. TCM Effects: To disinhibit water and free strangury, clear heart and downbear fire. TCM Indications: Strangury, edema, inhibited urination, damp-heat jaundice, insomnia and vexation, infant night crying, throat impediment, mouth sore, wound. Isolated compounds: 9500, 9893, 9894, 10101, 10102, 11958, 11959, 11960, 13772, 13924, 14922, 15814, 21612.
- T3579 *Jungermannia exsertifolia* ssp. *cordifolia* (Jungermanniaceae); XIN XING SHEN YE YE TAI. Isolated compounds: 3167, 3168, 3177.
- T3580 *Jungermannia* sp. (Jungermanniaceae); XIN XI LAN YE TAI. Isolated compounds: 10274, 10287, 11962, 12167.
- T3581 *Jungermannia truncata* (Jungermanniaceae); JIE XING YE TAI. Isolated compounds: 172, 201, 5703, 5934, 5935, 7103, 7158, 10278, 10279, 10280, 10283, 10284, 10286, 10287, 10288, 12174, 12182, 18938.
- T3582 *Juniperus chinensis* var. *kaizuka* (Cupressaceae); LONG BAI; Dragon Juniper. Isolated compounds: 6476, 7047, 9745, 16418.
- T3583 *Juniperus communis* (Cupressaceae); OU ZHOU CI BAI; Common Juniper. Isolated compounds: 9, 2850, 3354, 4281, 4916, 6819, 11961, 11966, 15705, 19983, 20465.
- T3584 *Juniperus communis* var. *depressa* (Cupressaceae); OU ZHOU CI BAI BIAN ZHONG; Common Juniper Variety\*. Isolated compounds: 4035, 13642, 13643, 16079, 21765.
- T3585 *Juniperus conferta* (Cupressaceae); AN CI BAI; Shore Juniper. Isolated compounds: 15412.
- T3586 *Juniperus erectopatens* (Cupressaceae); ZHI LI CI BAI; Erect Juniper\*. Isolated compounds: 17780.
- T3587 *Juniperus excelsa* (Cupressaceae); GAO DA CI BAI; High Juniper\*. Isolated compounds: 11967.
- T3588 *Juniperus formosana* (Cupressaceae); CI BAI; Taiwan Juniper. Used part: root and root cortex or branch-leaf. TCM Effects: To clear heat and resolve toxin, dry damp and relieve itch. TCM Indications: Measles papules with ardent fever, eczema, lichen sore. Isolated compounds: 12402, 12412.
- T3589 *Juniperus horizontalis* (Cupressaceae); PING PU YUAN BAI; Creeping Juniper. Isolated compounds: 4376.
- T3590 *Juniperus macropoda* (Cupressaceae); CHANG BING YUAN BAI; Longpetiole Juniper\*. Isolated compounds: 11141.
- T3591 *Juniperus occidentalis* (Cupressaceae); XI FANG CI BAI; Western Juniper. Isolated compounds: 1030, 4376, 10688, 11968, 11969.
- T3592 *Juniperus oxycedrus* (Cupressaceae); CI GUI; Prickly Juniper. Isolated compounds: 15705, 22920.
- T3593 *Juniperus phoenicea* (Cupressaceae); FEI NI JI CI BAI; Poenician Juniper. Isolated compounds: 10271, 11760, 11965, 13897, 14317, 14495, 14496, 14504, 14644, 14647.
- T3594 *Juniperus rigida* (Cupressaceae); DU SONG SHI; Stiffleaf Juniper Fruit. Used part: fruit. TCM Effects: To dispel wind, settle pain, eliminate damp, disinhibit urine. TCM Indications: Rheumatic arthritis, pain wind, nephritis, edema, urinary tract infection. Isolated compounds: 555, 556, 557, 562, 563, 1030, 1186, 2412, 2550, 2935, 2936, 3194, 3241, 3242, 3768, 4281, 4550, 4916, 5747, 6198, 7410, 7729, 7764, 9543, 9669, 10688, 13825, 13826, 15412, 17588, 20465, 22770.
- T3595 *Juniperus sabina* (Cupressaceae); CHA ZI YUAN BAI; Savin Juniper. Isolated compounds: 1372, 16797, 17337, 17341, 17342, 17347, 17592, 19101, 19427.
- T3596 *Juniperus sabina* var. *tamariscifolia* (Cupressaceae); CHENG LIU YE YUAN BAI; Tamarisk-leaf Juniper\*. Isolated compounds: 1372.
- T3597 *Juniperus scopulorum* (Cupressaceae); LUO JI SHAN YUAN BAI; Western Red Cedar. Isolated compounds: 11421, 19121.
- T3598 *Juniperus silicicola* (Cupressaceae); NAN MEI ZHOU GUI; Southern Red-cedar. Isolated compounds: 1372.
- T3599 *Juniperus* sp. (Cupressaceae). Isolated compounds: 5543, 18864.
- T3600 *Juniperus taiwaniana* (Cupressaceae); SHAN CI BAI; Taiwan Juniper. Used part: root or fruit. TCM Indications: Enduring low fever, skin lichen. Isolated compounds: 15703, 21346, 21347, 21348, 22052.
- T3601 *Juniperus thurifera* (Cupressaceae); RU XIANG BAI; Mastic Juniper\*. Isolated compounds: 3352, 3353, 17337.
- T3602 *Juniperus thurifera* var. *africana* (Cupressaceae); XIANG CI BAI FEI ZHOU BIAN ZHONG; Mastic Africa Juniper\*. Isolated compounds: 11760, 13897, 14317, 14495, 14496, 14504, 14644, 14647.
- T3603 *Juniperus virginiana* (Cupressaceae); BEI MEI YUAN BAI; Red Cedar. Isolated compounds: 3350, 3354, 17592.
- T3604 *Jurinea alata* (Asteraceae); YI CHI LING JU; Winged Jurinea\*. Isolated compounds: 837.  
*Jurinea souliei* = *Vladimiria souliei*
- T3605 *Justicia betonica* (Acanthaceae); YAO SHUI SU JUE CHUANG. Isolated compounds: 11983, 11984, 11985, 11986.
- T3606 *Justicia ghiesbreghtiana* (Acanthaceae). Isolated compounds: 11976.

- T3607 *Justicia heterocarpa* (Acanthaceae). Isolated compounds: 12799.
- T3608 *Justicia hyssopifolia* (Acanthaceae). Isolated compounds: 11982, 19427.  
*Justicia paniculata* = *Andrographis paniculata*  
*Justicia procumbens* = *Rostellularia procumbens*
- T3609 *Justicia procumbens* var. *leucantha* (Acanthaceae); BAI HUA JUE CHUANG; Whiteflower Rostellularia. Isolated compounds: 11979.  
*Justicia purpurea* = *Hypoestes purpurea*
- T3610 *Justicia simplex* (Acanthaceae); DAN JUE CHUANG; Simple Rostellularia. Isolated compounds: 11979, 19903.
- ## K
- T3611 *Kadsura ananosma* (Schisandraceae); BO LUO XIANG TENG. Isolated compounds: 1136, 1136, 1137, 1138, 1139, 1248.
- T3612 *Kadsura angustifolia* (Schisandraceae); XIA XIE NAN WU WEI ZI; Narrowleaf Kadsura\*. Isolated compounds: 1246, 1247, 1248.  
*Kadsura chenensis* = *Kadsura coccinea*
- T3613 *Kadsura coccinea* [Syn. *Kadsura chenensis*; *Kadsura hainanensis*] (Schisandraceae); LENG FAN TUAN[yin]; Blacktiger Kadsura. Used part: root and trailing stem. TCM Effects: To move *qi* and relieve pain, free network vessels and dissipate stasis. TCM Indications: Gastric ulcer, duodenal ulcer, chronic gastritis, acute gastroenteritis, wind-damp impediment pain, knocks and falls, fracture, dysmenorrhea, postpartum blood stasis abdominal pain, mounting *qi* (hernia). Isolated compounds: 144, 145, 2245, 3861, 9928, 9929, 11229, 11469, 11992, 11996, 11997, 12003, 12011, 12014, 14356, 15422, 15423, 19493, 19494, 19495, 19496.  
*Kadsura hainanensis* = *Kadsura coccinea*
- T3614 *Kadsura heteroclita* [Syn. *Uvaria heteroclita*] (Schisandraceae); YI XING NAN WU WEI ZI; Curious Kadsura. Used part: root or lianoid stem. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, soothe sinews and quicken network vessels. TCM Indications: Wind-damp impediment pain, stomachache, abdominal pain, dysmenorrhea, postpartum abdominal pain, knocks and falls, chronic pain in lumbus and legs. Isolated compounds: 144, 145, 9460, 9461, 9462, 9463, 9464, 9465, 9466, 9928, 9929, 11993, 11994, 13522, 15419, 19629.
- T3615 *Kadsura interior* (Schisandraceae); NEI NAN WU WEI ZI; Fengqing Kadsura. Used part: lianoid stem. TCM Effects: To engender blood and harmonize blood, regulate menstruation and promote pregnancy. TCM Indications: *Qi* blood vacuity depletion, paralysis in limbs, wind-damp impediment pain, vacuity detriment sterility, emission, white turbidity, menstrual disorder, red and white vaginal discharge. Isolated compounds: 1210, 8906, 8908, 8912, 9463, 9465, 11099, 11100, 11101, 11102, 11103, 11103, 11104, 11104, 11105, 11106, 12012, 15422, 19497.
- T3616 *Kadsura japonica* (Schisandraceae); RI BEN NAN WU WEI ZI; Japanese Kadsura. Isolated compounds: 333, 12003, 12012.
- T3617 *Kadsura lancilimba* (Schisandraceae); PI ZHEN YE NAN WU WEI ZI; Lanceolate Kadsura\*. Isolated compounds: 12477, 12478, 12479.  
*Kadsura longipedunculata* = *Kadsura peltigera*
- T3618 *Kadsura matsudai* (Schisandraceae). Isolated compounds: 12004, 19500, 19501, 19502, 20646.
- T3619 *Kadsura peltigera* [Syn. *Kadsura longipedunculata*] (Schisandraceae); CHANG GENG NAN WU WEI ZI; Longpeduncle Kadsura. Used part: root or root cortex. TCM Effects: To move *qi*, quicken blood, relieve pain. TCM Indications: *Qi* stagnation abdominal distention, abdominal pain, stomachache, pain in sinews and bones, dysmenorrhea, knocks and falls, innominate toxin swelling. Isolated compounds: 1206, 1207, 1208, 1466, 2381, 3476, 11991, 11992, 11993, 11995, 11998, 11999, 12000, 12001, 12002, 12003, 12013, 12966, 12967, 12968, 15419, 15420, 15421, 16290, 16352, 19479, 19480, 19483, 19484, 19485, 19486, 19492, 19497, 19499.
- T3620 *Kaempferia galanga* (Zingiberaceae); SHAN NAI; Galanga Resurrectionlily. Used part: rhizome. TCM Effects: To warm center and move *qi*, disperse food, relieve pain. TCM Indications: Distention fullness in chest and diaphragm, cold pain in stomach duct and abdomen, non-digestion of food accumulation. Isolated compounds: 2550, 3194, 7430, 7460, 7474, 9088, 12015, 12020, 14060, 14096, 15938, 17056, 17136, 21953, 21972.
- T3621 *Kaempferia marginata* (Zingiberaceae); KU SHAN NAI; Bitter . Isolated compounds: 13560.
- T3622 *Kaempferia pandurata* (Zingiberaceae); TI QIN ZHUANG SHAN NAI; Fiddle-leaf Resurrectionlily\*. Isolated compounds: 16603.
- T3623 *Kalmia latifolia* (Ericaceae); KUAN YE SHAN YUE GUI; Mountain Laurel. Isolated compounds: 17170.
- T3624 *Kalopanax pictum* (Araliaceae); ZHUO SE CI QIU; Picture Kalopanax\*. Used part: bark. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, kill worms and relieve itch. TCM Indications: Wind-damp impediment pain, numbness in limbs, wind-fire toothache, knocks and falls, fracture, swelling of welling abscess, welling abscess and flat abscess with swelling sore, mouth sore, swelling hemorrhoids, sore and lichen. Isolated compounds: 9276, 17350, 17351.
- T3625 *Kalopanax septemlobus* (Araliaceae); CI QIU SHU PI; Septemlobate Kalopanax Bark. Used part: bark. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, kill worms and relieve itch. TCM Indications: Wind-damp impediment pain, numbness in limbs, wind-fire toothache, knocks and falls, fracture, swelling of welling abscess, welling abscess and flat abscess with swelling sore, mouth sore, swelling hemorrhoids, sore and lichen. Isolated compounds: 3823, 9276, 12118, 12119.
- T3626 *Kandelia candel* (Rhizophoraceae); QIU QIE SHU; Kandelia. Isolated compounds: 678, 12128.
- T3627 *Kayea assamica* (Clusiaceae); *Kayea assamica*. Isolated compounds: 21313, 21314, 21315, 21316.
- T3628 *Kerria japonica* (Rosaceae); DI TANG HUA; Japanese Kerria Flower. Used part: flower or branchlet-leaf. TCM Effects: To relieve cough and transform phlegm, disinhibit damp and disperse swelling, resolve toxin. TCM Indications: Cough, wind-damp impediment pain, postpartum vacuity taxation, edema, inhibited urination, indigestion, swelling toxin of welling abscess and flat abscess, eczema, urticaria. Isolated compounds: 834, 8967, 9290, 13134, 16756.
- T3629 *Kigelia pinnata* (Bignoniaceae); DIAO DENG SHU; Sausagetreer. Isolated compounds: 5174, 9988, 10105, 10107, 10825, 12225, 12501.
- T3630 *Kleinhovia hospita* (Myristicaceae); MIAN TOU YE; Smallleaf

- Knema. Used part: leaf. TCM Effects: To kill worms, treat lichen, dry damp and resolve itch. TCM Indications: Scab sore, lichen, erythra itch-pain, head louse. Isolated compounds: 15525, 19087.
- T3631 *Knema globularia* (Myristicaceae); XIAO YE HONG GUANG SHU; Small-leaf Knema. Isolated compounds: 5699, 13648, 20481.
- T3632 *Knoxia valerianoides* (Rubiaceae); HONG YA DA JI; Red Knoxia. Used part: root. TCM Effects: To drain water and expel rheum, resolve toxin and dissipate binds. TCM Indications: Edema distention fullness, phlegm-rheum rapid asthma, swelling toxin of welling abscess and sore. Isolated compounds: 10530, 12237, 18329, 21730.
- T3633 *Kobresia nepalensis* (Cyperaceae); NI BO ER SONG CAO; Nepal Kobresia\*. Isolated compounds: 15478, 15479, 15480, 15481.
- T3634 *Koelipinia linearis* (Asteraceae); XIE WEI JU; Linear Koelipinia. Isolated compounds: 663, 8351, 12243, 12244, 12245, 15774, 20713.
- T3635 *Koelreuteria paniculata* (Sapindaceae); LUAN HUA; Paniculate Goldraintree Flower. Used part: flower. TCM Effects: To clear liver and brighten eyes. TCM Indications: Eye pain, eye swelling, red eyes and tearing. Isolated compounds: 3340, 12246, 14454.
- T3636 *Koelreuteria paniculata* (Sapindaceae); LUAN SHU; Paniculate Goldraintree Root-bark. Used part: root cortex. TCM Effects: To clear liver and brighten eyes. TCM Indications: Eye pain and tearing, red eyes with gall. Isolated compounds: 5511, 5512, 6727, 6728, 7458, 7470, 16607, 16608, 18412, 21042.
- T3637 *Koelreuteria* spp. (Sapindaceae). Isolated compounds: 12642.
- T3638 *Kokoona ochracea* ZHE HUANG KAO GU NA; Brown-yellow Kokoona\*. Isolated compounds: 15919, 15920, 15921, 15922, 15923.
- T3639 *Kopsia flavida* (Apocynaceae); HUANG HONG SE RUI MU; Yellow-red Kopsia\*. Isolated compounds: 14319, 14584, 14585, 14596.
- T3640 *Kopsia fruticosa* (Apocynaceae); HONG HUA RUI MU; Redflower Kopsia. Isolated compounds: 6473, 6878, 6941, 10293, 10517, 12261, 12262, 12263, 12264, 12265, 12266, 12267, 12268, 12269, 12988, 17555, 22372, 22373, 22374.
- T3641 *Kopsia griffithii* (Apocynaceae); MA LAI XI YA RUI MU; Malaysia Kopsia\*. Isolated compounds: 827, 6879, 14373.
- T3642 *Kopsia longiflora* (Apocynaceae); CHANG HUA RUI MU; Longflower Kopsia\*. Isolated compounds: 12268.
- T3643 *Kopsia officinalis* (Apocynaceae); YUN NAN RUI MU; Medicinal Kopsia. Used part: fruit and leaf. TCM Effects: To dispel wind and quicken network vessels, eliminate inflammation and relieve pain. TCM Indications: Swelling pain in throat, wind-damp impediment pain, numbness in limbs. Isolated compounds: 17556.
- T3644 *Kopsia pauciflora* (Apocynaceae); SHAO HUA RUI MU; Fewflower Kopsia\*. Isolated compounds: 16731, 16732.
- T3645 *Kummerowia striata* (Fabaceae); JI YAN CAO; Striate Kummerowia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, fortify spleen and disinhibit damp, quicken blood and stanch bleeding. TCM Indications: Common cold with fever, summerheat-damp vomiting and diarrhea, jaundice, welling abscess boil and clove sores, dysentery, gan disease, blood strangury, coughing of blood, spontaneous external bleeding, knocks and falls, red and white vaginal discharge. Isolated compounds: 1476, 1492, 12020, 13137, 13145, 18409.
- T3646 *Kyllinga brevifolia* (Cyperaceae); SHUI WU GONG; Shortleaf Kyllinga. Used part: whole herb with rhizome. TCM Effects: To course wind and resolve exterior, clear heat and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Common cold with headache and fever, acute bronchitis, pertussis, malaria, jaundice, dysentery, chyluria, toxin swelling of sores, itchy skin, poisonous snake bite, knocks and falls, rheumatic arthritis. Isolated compounds: 22581.

## L

- T3647 *Lablab niger* (Fabaceae); BIAN DOU; Niger Bean\*. Isolated compounds: 17047.
- T3648 *Laburnum anagyroides* (Fabaceae); DU DOU; Goldenchain Laburnum. Isolated compounds: 1134, 4594, 15555.
- T3649 *Laccifer lacca* (Lacciferidae); ZI CAO RONG; Lac. Used part: gum of lac insect. TCM Effects: To clear heat, cool blood, resolve toxin. TCM Indications: Measles papules, non-eruption of measles, postpartum blood dizziness, vaginal discharge, swelling toxin of sore and scab. Isolated compounds: 887.
- T3650 *Lactarius helvus* (Russulaceae). Isolated compounds: 18273.
- T3651 *Lactarius necator* (Russulaceae). Isolated compounds: 17433, 17446.
- T3652 *Lactarius pergamenus* (Russulaceae); SI YANG PI ZHI RU GU; Parchment-like Milky\*. Isolated compounds: 18273.
- T3653 *Lactarius piperatus* [Syn. *Agaricus piperatus*] (Russulaceae); LA RU GU; Peppery Milky. Used part: sporocarp. TCM Effects: To dispel wind and dissipate cold, soothe sinews and quicken network vessels. TCM Indications: Pain in lumbus and legs, numbness in limbs, hypertonicity of sinews and bones, convulsion of limbs. Isolated compounds: 17433, 17446, 22364.
- T3654 *Lactarius rolemus* (Russulaceae); DUO ZHI RU GU; Juicy Milky\*. Isolated compounds: 7245.
- T3655 *Lactarius subvellereus* (Russulaceae); YA RONG GAI RU GU; Subtomentose Milky\*. Isolated compounds: 3422.
- T3656 *Lactarius torminosus* (Russulaceae); MAO TOU RU GU; Pink-fringed Milky. Isolated compounds: 17433, 17446.
- T3657 *Lactarius vellereus* (Russulaceae); RONG BAI RU GU; Fleecy Milk-cap. Used part: sporocarp. TCM Effects: To track wind and dissipate cold, soothe sinews and quicken network vessels. TCM Indications: Numbness in limbs, hemiplegia. Isolated compounds: 10308, 10309, 10822, 11475, 11768, 12433, 12435, 18273, 22364, 22365, 22366, 22367.
- T3658 *Lactuca canadensis* (Asteraceae); JIA NA DA WO JU; Canada Lettuce. Isolated compounds: 12447.
- T3659 *Lactuca indica* (Asteraceae); SHAN WO JU; Indian Lettuce. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding. TCM Indications: Swelling pain in throat, intestinal welling abscess, swelling pain of sore and boil, postpartum blood stasis abdominal pain, wart, flooding and spotting, bleeding from hemorrhoids. Isolated compounds: 1113, 1476, 3551, 8351, 11642, 12441, 12442, 12443, 12444, 13137, 13147, 18317, 19087, 20369.
- T3660 *Lactuca laciniata* (Asteraceae); SUI BIAN WO JU; Laciniated Lettuce\*. Isolated compounds: 12446.



- T3661 *Lactuca sariola* (Asteraceae); SA LI LA WO JU; Sariola Lettuce\*. Isolated compounds: 12446.
- T3662 *Lactuca sativa* (Asteraceae); WO JU; Garden Lettuce. Used part: seed. TCM Effects: To disinhibit urine, free milk, clear heat and resolve toxin. TCM Indications: Inhibited urination, hematuria, galactostasis, snake or insect bites, toxin swelling. Isolated compounds: 5564, 12446, 13147, 18374.
- T3663 *Lactuca serriola* (Asteraceae); YE WO JU; Prickly Lettuce. Isolated compounds: 5187, 12447.
- T3664 *Lactuca virosa* (Asteraceae); DU WO JU; Blue Lettuce. Isolated compounds: 12446, 12447.
- T3665 *Laetia corymbulosa* (Flacourtiaceae). Isolated compounds: 4111, 4112, 4113.
- T3666 *Laetiporus sulphureus* var. *miniatus* (Polyporaceae); ZHU HONG LIU HUANG SE XUN KONG JUN; Vermeil-sulphureous Laetiporus\*. Isolated compounds: 13592, 13593.
- T3667 *Lagenaria breviflora* (Cucurbitaceae); DUAN HUA HU LU; Shortflower Bottle Gourd\*. Isolated compounds: 8065.
- T3668 *Lagenaria siceraria* var. *depressa* (Cucurbitaceae); HU GUA; Bottle Gourd. Used part: fruit. TCM Effects: To disinhibit water, disperse swelling, free strangury, dissipate binds. TCM Indications: Edema, ascites, jaundice, diabetes mellitus, strangury, swollen welling abscess. Isolated compounds: 4317.
- T3669 *Lagerstroemia fauriei* (Lythraceae); FU RUI ZI WEI; Faurie Crapemyrtle\*. Isolated compounds: 22433.  
*Lagerstroemia flos-reginae* = *Lagerstroemia speciosa*
- T3670 *Lagerstroemia indica* (Lythraceae); ZI WEI GEN; Common Crapemyrtle Root. Used part: root. TCM Effects: To clear heat and disinhibit damp, quicken blood and stanch bleeding, relieve pain. TCM Indications: Swelling toxin of sore and welling abscess, toothache, dysentery. Isolated compounds: 21955.
- T3671 *Lagerstroemia indica* (Lythraceae); ZI WEI HUA; Common Crapemyrtle Flower. Used part: flower. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding. TCM Indications: Postpartum flooding, concretion and conglomeration, flooding, vaginal discharge, scab and lichen, *lai*. Isolated compounds: 4832, 5012, 8095, 14454, 14547, 17025.
- T3672 *Lagerstroemia indica* (Lythraceae); ZI WEI YE; Common Crapemyrtle Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, disinhibit damp and stanch bleeding. TCM Indications: Dysentery, eczema, bleeding due to external injury. Isolated compounds: 4832, 4848, 4856, 5736, 12450.
- T3673 *Lagerstroemia speciosa* [Syn. *Munchausia speciosa*; *Lagerstroemia flos-reginae*] (Lythraceae); DA HUA ZI WEI; Queen Crapemyrtle. Used part: root and leaf. TCM Effects: To close sores, resolve toxin. TCM Indications: Swelling toxin of welling abscess and sore. Isolated compounds: 18206.
- T3674 *Laggera alata* (Asteraceae); LIU LENG JU; Winged Laggera. Used part: whole herb. TCM Effects: To dispel wind, eliminate damp, transform stagnation, dissipate stasis, disperse swelling, resolve toxin. TCM Indications: Common cold with cough, generalized pain, diarrhea, painful joints due to rheumatism, menstrual block, knocks and falls, welling abscess and clove sore, scrofula, damp toxin with pruritus. Isolated compounds: 838, 839, 840, 841, 842, 4126, 7493, 9939, 9940, 9941, 10072, 10223, 10224, 10225, 10987, 11349, 16361, 21021, 21627.  
*Lagopsis supina* = *Marrubium supinum*
- T3675 *Lagopsis supina* (Lamiaceae); XIA ZHI CAO; Lagopsis. Used part: whole herb. TCM Effects: To nourish body and quicken blood, clear heat and disinhibit damp. TCM Indications: Menstrual disorder, postpartum abdominal pain due to stasis obstruction, dizzy head due to blood vacuity, hemiplegia, knocks and falls, edema, inhibited urination, red eyes with gall, welling abscess and sores, frostbite (kibe), toothache, itchy skin. Isolated compounds: 1484, 1487.
- T3676 *Lagotis stolonifera* (Scrophulariaceae); PU FU JING TU ER CAO; Creeping Lagotis\*. Isolated compounds: 18219.
- T3677 *Laguncularia racemosa* (Combretaceae); JIA HONG SHU; White Mangrove. Isolated compounds: 13296.
- T3678 *Laminaria japonica* (Laminariaceae); KUN BU; Kelp Thallus. Equivalent plant: *Ecklonia kurome*, *Undaria pinnatifida*. Used part: dried thallus. TCM Effects: To soften hardness and dissipate binds, dispel phlegm, disinhibit water. TCM Indications: Goiter and tuberculosis, scrofula, bleeding, painful swollen testes, phlegm-rheum and edema, prevention of cataracts. Isolated compounds: 9392, 9495, 12457, 13504, 13608, 14555, 15962, 15980.
- T3679 *Lamiophlomis rotata* [Syn. *Phlomis rotata*] (Lamiaceae); DU YI WEI; Common Lamiophlomis. Used part: whole herb. TCM Effects: To quicken blood and transform stasis, disperse swelling and relieve pain. TCM Indications: Knocks and falls, pain in sinews and bones, swelling pain in joints, dysmenorrhea, flooding and spotting. Isolated compounds: 1497, 1504, 4959, 12459, 12460, 12461, 12462, 12463.
- T3680 *Lamium amplexicaule* (Lamiaceae); BAO GAI CAO; Henbit Deadnettle. Used part: whole herb. TCM Effects: To quicken blood and free network vessels, resolve toxin and disperse swelling. TCM Indications: Knocks and falls, pain in sinews and bones, numbness in limbs, hemiplegia, facial paralysis, jaundice, deep-source nasal congestion, scrofula, toxin swelling, yellow-water sore. Isolated compounds: 11128, 12456, 12458, 12464.
- T3681 *Lamium barbatum* (Lamiaceae); YE ZHI MA; Barbate Deadnettle. Used part: flower or whole herb. TCM Effects: To cool blood and stanch bleeding, quicken blood and relieve pain, disinhibit damp and disperse swelling. TCM Indications: Lung heat hemoptysis, blood strangury, vaginal discharge, menstrual disorder, vacuity fever in children, knocks and falls, toxin swelling. Isolated compounds: 12464, 22158.  
*Lamium chinense* = *Galeobdolon chinense*
- T3682 *Lamium galeobdolon* (Lamiaceae); YOU CHOU YE ZHI MA; Stoat-osmyl Deadnettle\*. Isolated compounds: 9858.
- T3683 *Lamium* sp. (Lamiaceae). Isolated compounds: 9238.
- T3684 *Lamptromyces japonicus* (Tricholomataceae); RI BEN CE ER. Isolated compounds: 12465.  
*Lannea coromandelica* = *Lannea grandis*
- T3685 *Lannea grandis* [Syn. *Lannea coromandelica*] (Anacardiaceae); HOU PI SHU; Coromandel Lannea. Used part: bark. TCM Effects: To joint bones, resolve toxin. TCM Indications: Fracture, tetrodon poisoning, cassava poisoning, pineapple poisoning. Isolated compounds: 3852,

- 5825, 12488, 12714, 18378, 21909.
- T3686 *Lansium domesticum* (Meliaceae); ZAI ZHONG LANG SE MU; Cultivated Langsat\*. Isolated compounds: 16305.
- T3687 *Lantana camara* (Verbenaceae); WU SE MEI; Common Lantana. Used part: leaf or branchlet. TCM Effects: To resolve toxin and disperse swelling, dispel wind and relieve itch. TCM Indications: Swollen welling abscess, damp toxin, scab and *lai*, sore toxin. Isolated compounds: 3024, 3025, 3026, 3027, 3028, 3241, 3242, 4550, 6169, 6537, 8276, 9486, 9669, 12490, 12491, 12492, 12493, 12494, 12495, 12496, 14208, 17696, 19987, 20255, 20280, 21327, 22396.
- T3688 *Lappula echinata* (Boraginaceae); DONG BEI HE SHI; European Stickseed. Used part: fruit. TCM Effects: To expel worms. TCM Indications: Ascariasis, taeniasis, oxyuria disease. Isolated compounds: 618, 4184, 14083.
- T3689 *Lappula intermedia* (Boraginaceae); ZHONG JIAN HE SHI; Intermediate Stickseed. Isolated compounds: 12535.  
*Larix amabilis* = *Pseudolarix amabilis*
- T3690 *Larix gmelini* (Pinaceae); LUO YE SONG; Dahurian Larch. Isolated compounds: 17876, 17884.
- T3691 *Larix* sp. (Pinaceae). Isolated compounds: 3981.
- T3692 *Larix* spp. (Pinaceae). Isolated compounds: 17399, 22581.
- T3693 *Larrea divaricata* (Zygophyllaceae); JI CHA KAI LA RUI A; Spreading Creosote-bush. Isolated compounds: 8289, 12526.
- T3694 *Larrea* sp. (Zygophyllaceae). Isolated compounds: 15741.
- T3695 *Larrea tridentata* (Zygophyllaceae); SAN CHI LA RUI A; Creosote-bush. Isolated compounds: 1476, 4940, 5652, 5864, 5865, 6942, 7742, 7743, 7744, 7745, 7746, 8289, 9423, 10077, 12070, 20978, 21105, 21711, 21771, 21857.
- T3696 *Lasianthus acuminatissimus* (Rubiaceae); CHANG WEI CU YE MU; Acuminate Lasianthus. Isolated compounds: 4716, 12531, 12532, 12533.
- T3697 *Lasianthus fordii* (Rubiaceae); Fordi Lasianthus\*. Isolated compounds: 12528, 12529, 12530.
- T3698 *Lasianthus wallichii* (Rubiaceae); XIE JI CU YE MU; Wallich Lasianthus. Isolated compounds: 1892, 2296, 2477, 4659, 4716, 15697, 16516.
- T3699 *Lasiobema japonica* (Fabaceae). Isolated compounds: 18323.
- T3700 *Lasiodiplodia theobromae*; Fungus *Lasiodiplodia theobromae*. Isolated compounds: 3179, 4861, 9979, 9980, 10315, 11825, 21311.
- T3701 *Lasiosphaera fenlzii* (Lycoperdaceae); MA BO; Bark-less Puff-ball. Equivalent plant: *Lycoperdon pyriforme*. Used part: sporocarp. TCM Effects: To clear lung and disinhibit throat, stanch bleeding. TCM Indications: Cough, aphonia, nosebleed(epistaxis), bleeding due to external injury. Isolated compounds: 4879, 7250, 22246, 22251.
- T3702 *Lastrea thelpteris* (Thelypteridaceae). Isolated compounds: 18162.
- T3703 *Lathyrus cicera* (Fabaceae); BIAN JIA SHAN LI DOU; Dwarf Chickling Pea. Isolated compounds: 9596.
- T3704 *Lathyrus latifolius* (Fabaceae); SU GEN XIANG WAN DOU; Everlasting Pea. Isolated compounds: 1057, 5351.
- T3705 *Lathyrus montanus* (Fabaceae); SHAN DI XIANG WAN DOU; Bitter Vetch. Isolated compounds: 16209.
- T3706 *Lathyrus nissolia* (Fabaceae); HE CAO XIANG WAN DOU; Grass Vetchling. Isolated compounds: 15629.
- T3707 *Lathyrus odoratus* (Fabaceae); XIANG WAN DOU; Sweet Pea. Isolated compounds: 12542.
- T3708 *Lathyrus palustris* var. *pilosus* (Fabaceae); ROU MAO SHAN LI DOU; Pilosity Peavine\*. Isolated compounds: 16579, 16580, 16581.
- T3709 *Lathyrus pratensis* (Fabaceae); MU DI XIANG WAN DOU; Meadow Peavine. Used part: whole herb. TCM Effects: To dispel phlegm and relieve cough. TCM Indications: Bronchitis, pneumonia, pulmonary welling abscess, tuberculosis, scab and lichen, sore and boil. Isolated compounds: 13145.
- T3710 *Lathyrus sativus* (Fabaceae); CAO XIANG WAN DOU; Indian Pea. Isolated compounds: 1058, 2845, 9596.
- T3711 *Lathyrus* sp. (Fabaceae). Isolated compounds: 10165, 13638.
- T3712 *Lathyrus* spp. (Fabaceae). Isolated compounds: 16209.
- T3713 *Lathyrus sylvestris* (Fabaceae); LIN SHENG SHAN LI DOU; Wild Pea. Isolated compounds: 5351.
- T3714 *Launaea* sp. (Asteraceae). Isolated compounds: 3635.
- T3715 *Laurencia caespitosa* (Delesseriaceae); CU SHENG AO DING ZAO; Cluster Concave-top Alga\*. Isolated compounds: 15910.
- T3716 *Laurencia elata* (Delesseriaceae); GAO AO DING ZAO; High Concave-top Alga\*. Isolated compounds: 6735.
- T3717 *Laurencia glandulifera* (Delesseriaceae); XIAO XIAN AO DING ZAO; Small-grand Concave-top Alga\*. Isolated compounds: 8502.
- T3718 *Laurencia majuscula* (Delesseriaceae); LUE DA AO DING ZAO; Smaller Concave-top Alga\*. Isolated compounds: 2623, 2624, 5399, 5400, 6735, 11570, 15910, 20343.
- T3719 *Laurencia mariannensis* (Delesseriaceae). Isolated compounds: 2620, 12616.
- T3720 *Laurencia nidifica* (Delesseriaceae); CHAO AO DING CAO. Isolated compounds: 11485, 12572.
- T3721 *Laurencia nipponica* (Delesseriaceae); HUANG SE AO DING CAO; Yellow Concave-top Alga\*. Isolated compounds: 12565.
- T3722 *Laurencia obtusa* (Delesseriaceae); DUN XING AO DING ZAO; Blunt Concave-top Alga\*. Isolated compounds: 15893, 15894, 15895, 15898, 15910, 16300.
- T3723 *Laurencia palisada* (Delesseriaceae); SHAN ZHUANG AO DING ZAO. Isolated compounds: 16542.
- T3724 *Laurencia* sp. (Delesseriaceae). Isolated compounds: 2450, 2451, 4595, 12615, 12617, 15899.  
*Laurentia longiflora* = *Isotoma longiflora*
- T3725 *Laurus nobilis* (Lauraceae); YUE GUI YE; Grecian Laurel Leaf. Used part: leaf. TCM Effects: To fortify stomach and rectify *qi*. TCM Indications: Distending pain in stomach duct and abdomen, knocks and falls, scab and lichen. Isolated compounds: 4891, 9451, 9732, 12566, 15431, 22400, 22963.
- T3726 *Laurus nobilis* (Lauraceae); YUE GUI ZI; Grecian Laurel Fruit. Used part: fruit. TCM Effects: To dispel wind-damp, resolve toxin, kill worms. TCM Indications: Wind-damp impediment pain, tetrodon poisoning, scab and lichen, postauricular sore. Isolated compounds: 391, 585, 4128, 7521, 8312, 8337, 12564, 12566.
- T3727 *Lavandula luisieri* (Lamiaceae). Isolated compounds: 6350, 14392, 21193.
- T3728 *Lavandula officinalis* (Lamiaceae); YAO YONG XUN YI CAO; Medicinal Lavender\*. Isolated compounds: 17408.

- T3729 *Lavandula* sp. (Lamiaceae). Isolated compounds: 3693.
- T3730 *Lavandula* spp. (Lamiaceae). Isolated compounds: 17054.
- T3731 *Lawsonia alba* (Lythraceae); BAI SAN MO HUA; White Henna\*. Isolated compounds: 12580, 12581, 12582.
- T3732 *Lawsonia inermis* (Lythraceae); ZHI JIA HUA YE; Henna Leaf. Used part: leaf. TCM Effects: To clear heat and promote contraction. TCM Indications: Bleeding due to external injury. Isolated compounds: 12580, 15255, 21391.
- T3733 *Leandra chaetodon* (Melastomataceae). Isolated compounds: 1736, 5773.
- T3734 *Ledebouria graminifolia* (Hyacinthaceae); HE CAO YE JIA BEI FANG FENG. Isolated compounds: 5838, 5992, 10030, 10409, 10676, 21767, 21809, 21917.  
*Ledebouriella seseloides* = *Saposhnikovia divaricata*
- T3735 *Ledum palustre* (Ericaceae); LA BA CHA; Crystal Tea. Isolated compounds: 16577.  
*Leibnitzia anandria* = *Gerbera anandria*
- T3736 *Lemmaphyllum microphyllum* (Polypodiaceae); LUO YAN CAO; Littleleaf Lemmaphyllum Herb. Used part: whole herb with root. TCM Effects: To clear lung and relieve cough, cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Lung heat cough, pulmonary welling abscess, hemoptysis, blood ejection, spontaneous external bleeding, hematuria, hemochezia, flooding and spotting, swelling pain in throat, parotitis, dysentery, scrofula, swelling toxin of welling abscess and sore, damp itchy skin, wind-fire toothache, wind-damp bone pain. Isolated compounds: 6678, 6679, 12620, 16110, 16111, 16112, 16113, 16114, 16115, 17660, 18162.
- T3737 *Lemmaphyllum microphyllum* var. *obovatum* (Polypodiaceae); DAO LUAN YE FU SHI JUE; Obovateleaf Lemmaphyllum\*. Used part: whole herb. TCM Effects: To clear lung and relieve cough, cool blood and stanch bleeding, free network vessels and relieve pain, clear heat and resolve toxin. TCM Indications: Pulmonary welling abscess, coughing of blood, blood ejection, spontaneous external bleeding, hematuria, blood strangury, wind-damp pain, toothache, dysentery, wind papules, damp itchy skin, swollen boil and malign sore, syphilis. Isolated compounds: 2079, 12618, 13413, 13414, 16110, 16116, 19829, 20709, 21174, 21404, 21405.
- T3738 *Lemna minor* (Lemnaceae); FU PING; Common Duckweed. Used part: whole herb. TCM Effects: To effuse sweat and resolve exterior, outthrust papules and relieve itch, disinhibit water and disperse edema, clear heat and resolve toxin. TCM Indications: Wind-heat exterior syndrome, non-eruption of measles, dormant papules with pruritus, edema, dribbling urinary block, sore and lichen, erysipelas, scalds. Isolated compounds: 1521, 9492, 9494, 10161, 10253, 10354, 11699, 17262.
- T3739 *Lemna perpusilla* (Lemnaceae); XI MAI FU PING; Minute Duckweed. Isolated compounds: 931.
- T3740 *Lemnaia bournei* BO LUN LIN HUA RUAN SHAN HU; Softcoral *Lemnaia bournei*. Isolated compounds: 12622.
- T3741 *Lens culinaris* (Fabaceae); BING DOU; Common Lentil. Isolated compounds: 9798, 10165, 20127, 22741.  
*Lens phaseoloides* = *Entada phaseoloides*
- T3742 *Lentinus edodes* (Tricholomataceae); XIANG XUN; Champignon. Used part: sporocarp. TCM Effects: To fortify spleen and promote digestion, dispel wind and outthrust papules, rectify *qi* and transform phlegm, resolve toxin, anticancer. TCM Indications: Weakness of right *qi*, fatigued spirit and hypodynamia, torpid intake, indigestion, blood vacuity, rickets, hypertension, hyperlipemia, chronic hepatitis, night sweating, urinary incontinence, edema, non-eruption of measles, urticaria, carcinoma. Isolated compounds: 109, 617, 624, 7250, 8003, 9766, 11532, 12624, 13608, 15979, 19105, 21504, 21505, 21506.
- T3743 *Lentinus lepideus* (Tricholomataceae); BAO PI GU; Pardleather-like Mushroom. Used part: sporocarp. TCM Effects: To supplement *qi* and blood, boost heart and liver. TCM Indications: *Qi*-blood depletion, heart-spleen vacuity, fatigue hypodynamia, palpitation and insomnia. Isolated compounds: 10318, 11487, 12623, 14333, 14766.
- T3744 *Leonotis nepetaefolia* (Lamiaceae); JING JIE YE SHI ER CAO; Nepetaleaf Leontis. Isolated compounds: 15483.
- T3745 *Leontice leontopetalum* (Berberidaceae); HUA BAN SHI ZU CAO; Leontice\*. Isolated compounds: 12641, 17007.
- T3746 *Leontice robustum* (Berberidaceae); HONG MAO QI; Robust Leontice. Used part: root and rhizome. TCM Effects: To quicken blood and dissipate stasis, dispel wind and eliminate damp, move *qi* and relieve pain. TCM Indications: Menstrual disorder, dysmenorrhea, postpartum blood stasis abdominal pain, cold pain in stomach duct and abdomen, knocks and falls, wind-damp impediment pain. Isolated compounds: 3340, 3341, 3342, 3343, 13089, 20717.
- T3747 *Leontice smirnowii* (Berberidaceae); SI MI SHI MU DAN CAO; Smirnow Leontice\*. Isolated compounds: 20717.
- T3748 *Leontice* spp. (Berberidaceae). Isolated compounds: 12642.
- T3749 *Leontopodium alpinum* (Asteraceae); GAO SHAN HUO RONG CAO; Alpine Edelweiss. Used part: whole herb. TCM Effects: To course wind and clear heat, relieve cough and transform phlegm. TCM Indications: Fever due to external contraction, lung heat cough, bronchitis. Isolated compounds: 118, 119, 230, 2856, 6211, 6212, 10526, 11339, 12178, 14394, 14767, 14893, 15886, 19894, 21898, 21971.  
*Leonurus artemisia* = *Leonurus heterophyllus*
- T3750 *Leonurus cardiaca* (Lamiaceae); WEI YI MU CAO; Stomach Motherwort. Isolated compounds: 816, 10135, 12625.
- T3751 *Leonurus glaucescens* (Lamiaceae); HUI BAI YI MU CAO; Glaucous Motherwort. Isolated compounds: 12579, 12637, 12638.
- T3752 *Leonurus heterophyllus* [Syn. *Leonurus artemisia*] (Lamiaceae); YI MU CAO; Wormwood-like Motherwort. Equivalent plant: *Leonurus sibiricus*. Used part: aerial parts. TCM Effects: To quicken blood and regulate menstruation, disinhibit urine and disperse edema. TCM Indications: Menstrual disorder, dysmenorrhea, amenorrhea, postpartum bleeding, persistent flow of lochia, edema, scant urine with edema, acute nephritis with edema. Isolated compounds: 6943, 6944, 6945, 6946, 6947, 8092, 8289, 9068, 9069, 9468, 9559, 9560, 12626, 12627, 12628, 12629, 12630, 12631, 12632, 12633, 12634, 12635, 12636, 12646, 12648, 12649, 13647, 17807, 17810, 19087, 20254, 21392.
- T3753 *Leonurus persicus* (Lamiaceae); BO SI YI MU CAO; Persia Motherwort\*. Isolated compounds: 308, 409, 2133, 4747, 5176, 5189, 6946, 6947, 6948, 6949, 6950, 7090, 7526, 8094, 9814, 12647, 12648,

- 12649, 12650, 12651, 12652, 12653, 12654, 12655, 12656, 12657, 12658, 12659, 12660, 12661, 12662, 12664, 12725, 17779.
- T3754 *Leonurus sibiricus* (Lamiaceae); XI YE YI MU CAO; Siberian Motherwort. Used part: aerial parts. TCM Effects: See *Leonurus heterophyllus*. TCM Indications: See *Leonurus heterophyllus*. Isolated compounds: 6617, 7020, 7021, 8289, 11488, 12639, 12640, 12645, 12646, 12663, 12665, 12666, 13014, 13015, 15483, 19858, 19859, 19860, 19861, 19862, 20254.
- T3755 *Lepidium apetalum* [Syn. *Lepidium micranthum*] (Brassicaceae); TING LI ZI; Pepperweed Seed. Equivalent plant: *Descourainia sophia*, *Lepidium virginicum*. Used part: seed. TCM Effects: To drain lung and calm asthma, move water and disperse swelling. TCM Indications: Phlegm-drool and congesting lung, cough and asthma with abundant phlegm, distention fullness in chest and rib-side, edema in chest and abdomen, inhibited urination. Isolated compounds: 2294, 19909.
- T3756 *Lepidium campestre* (Brassicaceae); HUANG YE DU XING CAI; Field Pepperwort. Isolated compounds: 1599.
- T3757 *Lepidium draba* (Brassicaceae); MAO DU XING CAI; Hoary Pepperwort. Isolated compounds: 7323, 14728, 20478.  
*Lepidium micranthum* = *Lepidium apetalum*
- T3758 *Lepidium sativum* (Brassicaceae); JIA DU XING CAI; Garden Cress. Used part: whole herb and seed. TCM Effects: To relieve cough and dispel phlegm, warm center, disinhibit urine, hasten delivery. TCM Indications: Cough, asthma, abundant phlegm, hiccough, diarrhea, dysentery, abdominal distention, edema, inhibited urination, scab and lichen. Isolated compounds: 3911, 8599, 19912.
- T3759 *Lepidium virginicum* (Brassicaceae); BEI MEI TING LI ZI; Virginia Pepperweed Seed. Used part: seed. TCM Effects: See *Lepidium apetalum*. TCM Indications: See *Lepidium apetalum*. Isolated compounds: 1599.
- T3760 *Lepidolaena taylorii* (Lepidolaenaceae); New Zealand liverwort. Isolated compounds: 19603, 19604, 19611, 19617.
- T3761 *Lepidozia fauriana* (Lepidoziaceae); DONG YA ZHI YE TAI. Isolated compounds: 1072, 1073, 1260, 1266, 5559, 5560, 7510.
- T3762 *Lepidozia incurvata* (Lepidoziaceae); WAN QU ZHI YE TAI. Isolated compounds: 2180, 2181, 2182, 2183, 2184, 2185, 2186, 3167, 3168, 3177, 11604.
- T3763 *Lepidozia vitrea* (Lepidoziaceae); YING ZHI YE TAI. Isolated compounds: 177, 6739, 7509, 7510, 7511, 11254, 22439.
- T3764 *Lepisorus thunbergianus* (Polypodiaceae); WA WEI; Thunberg's Lepisorus. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine and free strangury, stanch bleeding. TCM Indications: Infant ardent fever, fright wind, swelling pain in throat, swollen welling abscess and sores, poisonous snake bite, dribbling and inhibited voidings of urination, hematuria, cough and hemoptysis. Isolated compounds: 6679.
- T3765 *Lepisorus ussuriensis* (Polypodiaceae); WU SU LI WA WEI; Ussuri Lepisorus. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine, relieve cough, stanch bleeding. TCM Indications: Inhibited urination, dribbling pain of urination, edema, bloody urine, damp-heat dysentery, asthma, sore swollen throat, toxin swelling of sores, wind-damp pain, menstrual disorder, knocks and falls, bleeding knife wound. Isolated compounds: 21695.
- T3766 *Lepista nuda* (Tricholomataceae); ZI DING XIANG MO; Murasakishimeji (in Japanese). Used part: sporocarp. TCM Effects: To dispel damp and fortify spleen. TCM Indications: Leg *qi*. Isolated compounds: 6900, 7251.
- T3767 *Leptospermum polygalifolium* ssp. *polygalifolium* (Myrtaceae); YUAN ZHI YE AO ZHOU CHA; Australian Tea-tree. Isolated compounds: 6036, 6037, 10424, 10425, 21198, 21199, 21200.
- T3768 *Leptosphaeria maculans* BAN DIAN XIAO QIU QIANG JUN. Isolated compounds: 17177, 17178, 17179, 17180, 17604, 17605, 17606, 17607, 17608.
- T3769 *Lespedeza bicolor* (Fabaceae); HU ZHI ZI; Shrub Lespedeza. Used part: stem-leaf. TCM Effects: To clear heat and moisten lung, disinhibit urine and free strangury, stanch bleeding. TCM Indications: Lung heat cough, common cold with fever, pertussis, strangury syndrome, spontaneous external bleeding, blood ejection, hematuria, hematochezia. Isolated compounds: 9616, 10096, 11642, 16196, 21634.
- T3770 *Lespedeza cuneata* (Fabaceae); YE GUAN MEN; Cuneate Lespedeza. Used part: herb with root. TCM Effects: To supplement kidney and rough essence, fortify spleen and disinhibit damp, relieve cough and dispel phlegm, clear heat and resolve toxin. TCM Indications: Kidney vacuity, emission, enuresis, frequent urination, white turbidity, vaginal discharge, diarrhea, dysentery, edema, child *gan* accumulation, cough and asthma, knocks and falls, red eyes with gall, swelling toxin of welling abscess and sore, poisonous insect stings. Isolated compounds: 17391, 20385, 20444, 22581.
- T3771 *Lespedeza cyrtobotrya* (Fabaceae); DUAN GENG HU ZHI ZI; Shortstalk Bushclover. Isolated compounds: 12018.
- T3772 *Lespedeza homoloba* (Fabaceae); TONG XING LIE PIAN HU ZHI ZI; Homoloba Lespedeza\*. Isolated compounds: 6086, 6105, 9189, 9190, 12682, 12683, 12684, 12685, 12686, 12687, 12688, 12689, 12690, 12691, 12692, 12693, 12694, 12695, 12696, 12697, 12698, 12699, 12700, 12701, 12702, 12703, 12704, 12705, 12706.
- T3773 *Lespedeza* spp. (Fabaceae). Isolated compounds: 22581.
- T3774 *Lespedeza tomentosa* (Fabaceae); XIAO XUE REN SHEN; Woolly Lespedeza. Used part: root. TCM Effects: To fortify spleen and supplement vacuity, clear heat and disinhibit damp, quicken blood and regulate menstruation. TCM Indications: Vacuity taxation, dizziness due to anemia, edema, ascites, dysentery, amenorrhea, dysmenorrhea. Isolated compounds: 21634.
- T3775 *Lethariella cladonioides* (Parmeliaceae); JIN SI SHUA; Gold-wire Brush\*. Used part: lichen. TCM Effects: To quiet spirit, calm liver, quicken blood, close sores. TCM Indications: Insomnia, epilepsy, dizziness, knocks and falls, burns and scalds. Isolated compounds: 873, 9188, 14297, 14637, 15798.
- T3776 *Lethariella zahlbruckneri* (Parmeliaceae); JIN YAO DAI; Goldon-belt\*. Used part: lichen. TCM Effects: To dispel wind and eliminate damp, quicken blood and regulate menstruation, stanch bleeding and settle pain. TCM Indications: Taxation damage pain in lumbus and legs, menstrual disorder, leukorrhea, incised wound and bleeding, dizziness. Isolated compounds: 14637.
- T3777 *Lettoianthus stellatus* (Annonaceae). Isolated compounds: 10154, 11988, 12707, 12917, 13988, 14318, 15958.

- T3778 *Leucaena glauca* [Syn. *Leucaena leucocephala*] (Fabaceae); YIN HE HUAN; Hedge Acacia. Used part: root cortex. TCM Effects: To resolve depression and quiet heart, resolve toxin and disperse swelling. TCM Indications: Insomnia and vexation, palpitation and fearful throbbing, knocks and falls, fracture, pulmonary welling abscess, swollen welling abscess, scab sore. Isolated compounds: 14868, 14869.  
*Leucaena leucocephala* = *Leucaena glauca*
- T3779 *Leucas aspera* (Lamiaceae); FENG CHAO CAO; Rough Leucas. Used part: whole herb. TCM Effects: To resolve exterior, relieve cough, brighten eyes, free menstruation. TCM Indications: Common cold, headache, asthma, pertussis, swelling pain in throat, toothache, indigestion, menstrual disorder [=menoxenia], menstrual block, night blindness, phlegmon. Isolated compounds: 1466, 3517, 10434, 13291, 15202.
- T3780 *Leucocarpus perfoliatus*. Isolated compounds: 17513.
- T3781 *Leucojum aestivum* (Amaryllidaceae); XIA XUE PIAN LIAN; Summer Snowflake. Isolated compounds: 8083, 13237.
- T3782 *Leucojum vernum* (Amaryllidaceae); XUE PIAN LIAN; Spring Snowflake. Isolated compounds: 461, 8083, 9186, 9612, 13241.
- T3783 *Leucopaxillus tricolor* (Tricholomataceae); SAN SE BAI ZHUANG GU; Tricolor Leucopaxillus\*. Isolated compounds: 21591, 21592.
- T3784 *Leucothoe grayana* (Ericaceae); MU LI LU; One Sided Racemes Leucothoe. Isolated compounds: 8993, 8994, 8995.
- T3785 *Levisticum officinale* (Apiaceae); OU DANG GUI; Garden Lovage. Used part: root. TCM Effects: To quicken blood and regulate menstruation, disinhibit urine. TCM Indications: Amenorrhea, dysmenorrhea, dizziness, headache, numbness in limbs, edema. Isolated compounds: 2791, 7768, 11642, 12825, 12826.
- T3786 *Levisticum* sp. (Apiaceae). Isolated compounds: 12420.
- T3787 *Liatris champmanii* (Asteraceae); CHA SHI SHE BIAN JU; Champman Gay-feather\*. Isolated compounds: 12746.
- T3788 *Liatris elegans* (Asteraceae); HUA LI SHE BIAN JU; Pinkscale Gay-feather. Isolated compounds: 6737.
- T3789 *Liatris provincialis* (Asteraceae); TU ER FENG; Provincialis Gayfeather\*. Isolated compounds: 17998.
- T3790 *Liatris pycnostachya* (Asteraceae); MI SUI HUA SHE BIAN JU; Kansas Gay-feather. Isolated compounds: 20160.
- T3791 *Liatris scabra* (Asteraceae); CU CAO SHE BIAN JU; Scabrous Gay-feather\*. Isolated compounds: 6737.
- T3792 *Liatris* sp. (Asteraceae). Isolated compounds: 21507.
- T3793 *Liatris spicata* (Asteraceae); SHE BIAN JU; Gay-feather. Isolated compounds: 20160.
- T3794 *Liatris squarrosa* (Asteraceae); CU SHE BIAN JU; Scaly Blazing Star. Isolated compounds: 20160.
- T3795 *Liatris tenuifolia* (Asteraceae); XI YE SHE BIAN JU; Fine-leaved Gay-feather\*. Isolated compounds: 20160.
- T3796 *Libanotis buchtormensis* (Apiaceae); YAN FENG; Buchtorm Libanotis. Used part: root. TCM Effects: To effuse exterior and dissipate cold, dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-cold common cold, headache, toothache, wind-damp impediment pain, sinew and bone numbness, wound swelling from knocks and falls. Isolated compounds: 11834, 11835.
- T3797 *Libanotis condensata* (Apiaceae); MI HUA YAN FENG; Denseflower Libanotis. Used part: root. TCM Effects: To dispel wind and free network vessels, relieve pain. TCM Indications: Pain in joints due to rheumatism, chest pain. Isolated compounds: 18165.
- T3798 *Libanotis pyrenaicum* (Apiaceae). Isolated compounds: 17036.
- T3799 *Libocedrus* sp. (Cupressaceae). Isolated compounds: 1372.
- T3800 *Ligularia calthaefolia* (Asteraceae); LV TI CAO YE TUO WU; Marshmarigold-like Goldenray\*. Isolated compounds: 2119.
- T3801 *Ligularia clivorum* (Asteraceae); SHAN GANG TUO WU; Leopard Plant. Isolated compounds: 3847.
- T3802 *Ligularia dentata* (Asteraceae); CHI YE TUO WU; Toothleaf Goldenray. Used part: root and rhizome. TCM Effects: See *Ligularia fischeri*. TCM Indications: See *Ligularia fischeri*. Isolated compounds: 3847, 12812.
- T3803 *Ligularia dictyoneura* [Syn. *Senecio dictyoneurus*] (Asteraceae); WANG MAI TOU WU; Netvein Goldenray. Used part: root. TCM Effects: To diffuse lung and rectify qi, eliminate phlegm and suppress cough. TCM Indications: Common cold, cough. Isolated compounds: 12803, 12804, 12805.
- T3804 *Ligularia elegans* (Asteraceae); YA ZHI TUO WU; Elegant Goldenray\*. Isolated compounds: 3847, 12812.
- T3805 *Ligularia fischeri* (Asteraceae); HU LU QI; Kidneyleaf Goldenray. Equivalent plant: *Ligularia dentata*, *Ligularia intermedia*, *Ligularia sibirica*. Used part: root and rhizome. TCM Effects: To dispel phlegm, relieve cough, rectify qi and quicken blood, relieve pain. TCM Indications: Cough, abundant phlegm and asthma, pertussis, pain in lumbus and legs, taxation damage, knocks and falls. Isolated compounds: 3847, 8020, 10094, 12812, 12813, 12814, 12815, 12816.
- T3806 *Ligularia fischeri* var. *spiciformis* (Asteraceae); HU LU QI BIAN ZHONG; Kidneyleaf Goldenray Variety\*. Isolated compounds: 8020.
- T3807 *Ligularia intermedia* (Asteraceae); XIA BAO TUO WU; Narrowbract Goldenray. Used part: root and rhizome. TCM Effects: See *Ligularia fischeri*. TCM Indications: See *Ligularia fischeri*. Isolated compounds: 10775.
- T3808 *Ligularia japonica* [Syn. *Arnica japonica*; *Senecio japonica*] (Asteraceae); DA TOU TUO WU; Japanese Goldenray. Used part: root and whole herb. TCM Effects: To soothe sinews and quicken blood, resolve toxin and disperse swelling. TCM Indications: Knocks and falls, innominate toxin swelling, poisonous snake bite, welling abscess and boil, eczema. Isolated compounds: 17546, 19706.
- T3809 *Ligularia lapathifolia* (Asteraceae); NIU BANG YE DU WU; Dockleaf Goldenray. Used part: root, leaf. TCM Effects: To dissipate stasis and quicken blood, relieve pain. TCM Indications: Knocks and falls, stasis swelling pain, wind-damp impediment pain. Isolated compounds: 1219, 1220, 1221, 1223, 1224, 1226, 1230.
- T3810 *Ligularia nelumbifolia* (Asteraceae); LIAN YE TUO WU; Waterlilyleaf Goldenray. Used part: root. TCM Effects: To relieve cough and transform phlegm, dispel wind. TCM Indications: Wind-cold cough, phthisis. Isolated compounds: 6381, 8327, 8328, 15326, 15327, 15328, 15329.
- T3811 *Ligularia platyglossa* (Asteraceae); KUAN SHE TUO WU; Broad-tongue Goldenray\*. Isolated compounds: 16330.
- T3812 *Ligularia sagitta* (Asteraceae); JIAN YE TOU WU GEN; Arrowleaf

- Goldenray Root. Isolated compounds: 1228, 1229, 5959, 5977, 6238, 13098, 14170, 14171, 19983, 22270.
- T3813 *Ligularia sibirica* (Asteraceae); XI BO LI YA TOU WU; Siberian Goldenray. Used part: root and rhizome. TCM Effects: See *Ligularia fischeri*. TCM Indications: See *Ligularia fischeri*. Isolated compounds: 12813.
- T3814 *Ligularia* sp. (Asteraceae). Isolated compounds: 21507.
- T3815 *Ligularia stenocephala* (Asteraceae); ZHAI TOU TUO WU; Narrowhead Goldenray. Used part: root. TCM Effects: To clear heat, resolve toxin, dissipate binds, disinhibit urine. TCM Indications: Mammary welling abscess, edema, scrofula, tetrodon poisoning. Isolated compounds: 6255, 7578, 10775, 12806, 12807, 12808, 12809, 12810, 12811.
- T3816 *Ligularia tongolensis* (Asteraceae); DONG E LUO DU WU; Tongol Goldenray. Isolated compounds: 7228, 14169, 21818, 21819.
- T3817 *Ligularia virgaurea* ssp. *oligocephala* (Asteraceae). Isolated compounds: 5883, 6063, 10401, 10563, 21429, 21430, 21431.
- T3818 *Ligulariopsis shichuana* (Asteraceae); JIA TUO WU; False Goldenray\*. Isolated compounds: 123, 1225, 16419, 19707. *Ligusticum acutilobum* = *Angelica acutiloba*
- T3819 *Ligusticum brachylobum* (Apiaceae); DUAN PIAN GAO BEN; Shortlobe Ligusticum. Used part: root. TCM Effects: See *Angelica decursiva*. TCM Indications: See *Angelica decursiva*. Isolated compounds: 2803, 7768, 12825.
- T3820 *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*] (Apiaceae); CHUAN XIONG; Chuanxiong (Wallich Ligusticum). Equivalent plant: *Cnidium officinale*. Used part: rhizome. TCM Effects: To move *qi* and quicken blood, dispel wind and relieve pain. TCM Indications: Cerebral ischemia, postpartum pain, acute icterohepatitis, menstrual disorder, amenorrhea and dysmenorrhea, concretion and conglomeration, chest and rib-side stabbing pain, painful swelling from knocks and falls, headache, wind-damp impediment pain. Isolated compounds: 2791, 2794, 2796, 2797, 2803, 2887, 3589, 3615, 3631, 3632, 3633, 3858, 5589, 5590, 5599, 5763, 5782, 6192, 7071, 7444, 7452, 7453, 7467, 7469, 7471, 7768, 7852, 9486, 10489, 12825, 12826, 12891, 14001, 14484, 14554, 14655, 14669, 15370, 16404, 18656, 19648, 19732, 19733, 19734, 19735, 19736, 19737, 19738, 19739, 19740, 19741, 19742, 19743, 19744, 19745, 19983, 20137, 21939, 22325, 22336, 22627.
- T3821 *Ligusticum elatum* (Apiaceae); GAO DANG GUI; High Ligusticum\*. Isolated compounds: 2284, 11834.
- T3822 *Ligusticum jeholense* (Apiaceae); LIAO GAO BEN; Jehol Ligusticum. Used part: rhizome and root. TCM Effects: See *Ligusticum sinense*. TCM Indications: See *Ligusticum sinense*. Isolated compounds: 2803, 7768, 12825, 12826, 15204, 15427, 15515.
- T3823 *Ligusticum scoticum* (Apiaceae); SU GE LAN DANG GUI; Scots Lovage. Isolated compounds: 6193.
- T3824 *Ligusticum sinense* (Apiaceae); GAO BEN; Chinese Ligusticum. Equivalent plant: *Ligusticum jeholense*. Used part: rhizome and root. TCM Effects: To dissipate cold and resolve exterior, dispel wind and eliminate damp, relieve pain. TCM Indications: Headache due to externally contracted wind-cold, vertex headache, pain in tooth and cheek, migraine, wind-cold-damp impediment, pain in limbs. Isolated compounds: 2803, 3855, 3990, 5590, 7768, 11552, 12578, 12825, 12827, 14012, 15204, 15370, 19737, 19738.
- T3825 *Ligusticum sinense* cv. *chaxiong* (Apiaceae); CHA XIONG; Chaxiong Ligusticum. Isolated compounds: 2791, 7768, 15370, 19737, 19738.
- T3826 *Ligusticum* sp. (Apiaceae). Isolated compounds: 2309. *Ligusticum wallichii* = *Ligusticum chuanxiong*
- T3827 *Ligustrum japonicum* (Oleaceae); RI BEN NV ZHEN; Japanese Privet. Used part: leaf. TCM Effects: To clear liver fire, resolve heat toxin. TCM Indications: Dizziness and dim vision, acute conjunctivitis, oral *gan*, tooth decay, innominate toxin swelling, burns and scalds. Isolated compounds: 15439, 16080, 16081.
- T3828 *Ligustrum lucidum* (Oleaceae); NV ZHEN ZI; Glossy Privet Fruit. Used part: fruit. TCM Effects: To supplement liver and kidney, brighten eyes and blacken hair. TCM Indications: Septicemia, chronic bronchitis, acute dysentery, dizziness and tinnitus, premature graying in beard and hair, dim vision. Isolated compounds: 266, 530, 10324, 11565, 12828, 12830, 13053, 13054, 13055, 13056, 13504, 15439, 15865, 15866, 15873, 16050, 16071, 16080, 16081, 18792, 22270.
- T3829 *Ligustrum robustum* (Oleaceae); CU ZHUANG NV ZHEN; Japanese Privet. Used part: leaf. TCM Effects: To dissipate wind-heat, clear head and eyes, allay vexation and thirst. TCM Indications: Headache, toothache, sore pharynx, lip sore, tinnitus, red eyes, hemoptysis, summerheat-heat and vexation and thirst. Isolated compounds: 580, 1492, 1497, 12817, 12818, 12819, 12820, 12821, 12822, 12823, 12824, 16252, 16253.
- T3830 *Ligustrum sinense* (Oleaceae); NV ZHEN XIAO LA SHU; Chinese Privet. Used part: bark and branch-leaf. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Common cold with fever, lung heat cough, sore swollen throat, mough and tongue sores, damp-heat jaundice, dysentery, swelling toxin of welling abscess and sore, eczema, dermatitis, knocks and falls, scalds. Isolated compounds: 19926.
- T3831 *Ligustrum vulgare* (Oleaceae); OU ZHOU NV ZHEN; European Privet. Isolated compounds: 3686. *Lilium brownii* var. *colchesteri* = *Lilium brownii* var. *viridulum*
- T3832 *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*] (Liliaceae); BAI HE; Greenish Lily. Equivalent plant: *Lilium tigrinum*, *Lilium pumilum*, *Lilium longiflorum*. Used part: bulb. TCM Effects: To nourish *yin* and moisten lung, clear heart and quiet spirit. TCM Indications: *Yin* vacuity enduring cough, phlegm containing blood, fright palpitation and vacuity vexation, insomnia and frequent dreaming, trance. Isolated compounds: 2658, 3911, 6776, 8610, 15408, 18571, 18573, 20067, 20369.
- T3833 *Lilium candidum* (Liliaceae); QING LIANG BAI HE; Madonna Lily. Isolated compounds: 3695, 8705, 10458, 10723, 10724, 14093, 16587, 20222.
- T3834 *Lilium hansonii* (Liliaceae); HUANG BAI HE; Hanson Lily. Isolated compounds: 4293, 11842, 22976. *Lilium lancifolium* = *Lilium tigrinum*
- T3835 *Lilium longiflorum* (Liliaceae); SHE XIANG BAI HE; Longflower Lily. Used part: bulb. TCM Effects: See *Lilium brownii* var. *viridulum*. TCM Indications: See *Lilium brownii* var. *viridulum*. Isolated compounds: 1358, 18572, 18573, 18574.

- T3836 *Lilium pumilum* [Syn. *Lilium tenuifolium*] (Liliaceae); XI YE BAI HE; Low Lily. Used part: bulb. TCM Effects: See *Lilium brownii* var. *viridulum*. TCM Indications: See *Lilium brownii* var. *viridulum*. Isolated compounds: 3142, 3146.
- T3837 *Lilium* sp. (Liliaceae). Isolated compounds: 4448.
- T3838 *Lilium speciosum* x *L. nobilissimum* (Liliaceae); ZA JIAO BAI HEX; Hybrid Lily\*. Isolated compounds: 5040.  
*Lilium tenuifolium* = *Lilium pumilum*
- T3839 *Lilium tigrinum* [Syn. *Lilium lancifolium*] (Liliaceae); JUAN DAN; Tiger Lily. Used part: bulb. TCM Effects: See *Lilium brownii* var. *viridulum*. TCM Indications: See *Lilium brownii* var. *viridulum*. Isolated compounds: 1358, 3142, 12833, 18571, 18575.
- T3840 *Limnophila rugosa* (Scrophulariaceae); SHUI HUI XIANG; Winked Marshweed. Used part: whole herb. TCM Effects: To fortify spleen and disinhibit damp, rectify *qi* and transform phlegm. TCM Indications: Edema, stomachache, distention fullness in chest and abdomen, cough and asthma, child milk accumulation, sore and boil. Isolated compounds: 1186, 1284, 7385, 13883.
- T3841 *Limonium bonduellii* (Plumbaginaceae); A ER JI LI YA BU XUE CAO; Algerian Statice. Isolated compounds: 3432.
- T3842 *Limonium gmelinii* (Plumbaginaceae); BU XUE CAO; Gmelin Sealavender Herb. Used part: herb. TCM Effects: To stanch bleeding and dissipate stasis. TCM Indications: Static blood, flooding and spotting, carcinoma of uterine cervix. Isolated compounds: 4450, 5011.
- T3843 *Linaria dalmatica* (Scrophulariaceae); DA ER MA WEI YA LIU CHUAN YU; Balkan Toadflax. Isolated compounds: 12015.
- T3844 *Linaria japonica* (Scrophulariaceae); HAI BIN LIU CHUAN YU; Japanese Toadflax. Isolated compounds: 12856, 12857, 12858, 12859.
- T3845 *Linaria vulgaris* (Scrophulariaceae); LIU CHUAN YU; Yellow Toadflax. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Headache, dizziness, jaundice, hemorrhoids, constipation, skin diseases, burns and scalds. Isolated compounds: 480, 2276, 2278, 2279, 6359, 8759, 10821, 12916, 16756, 16770, 20569, 21079.
- T3846 *Lindelofia stylosa* (Boraginaceae); MING XIAN HUA ZHU CHANG ZHU LIU LI CAO; Longstyle Lindelofia. Isolated compounds: 2805, 6365, 7457, 7478, 12420, 14556, 18925.  
*Lindera aggregata* = *Lindera strychnifolia*
- T3847 *Lindera angustifolia* (Lauraceae); XIA YE SHAN HU JIAO; Narrowleaf Spicebush. Used part: root or branch-leaf. TCM Effects: To dispel wind, eliminate damp, move *qi* and dissipate cold, resolve toxin and disperse swelling. TCM Indications: Wind-cold common cold, headache, wind-damp impediment pain, numbness in limbs, dysentery, enteritis, knocks and falls, toxin swelling of sores, urticaria, scrofula. Isolated compounds: 7397.
- T3848 *Lindera benzoin* (Lauraceae); GUI PI DIAO ZHANG; Spicebush. Isolated compounds: 15902, 15903, 16832.
- T3849 *Lindera chunii* (Lauraceae); DING HU DIAO ZHANG; Chun's Spicebush. Used part: root. TCM Effects: To dispel wind and eliminate damp, move *qi* and loosen center, dissipate stasis and relieve pain. TCM Indications: Wind-damp bone pain, distending pain in stomach duct and abdomen, painful wound from knocks and falls. Isolated compounds: 9444, 9449, 9451, 12573, 12860, 12861, 12862, 12863, 12864, 12865, 12868, 12871, 12872, 14483, 15929, 16342, 16344, 18053, 20407, 20408.  
*Lindera erythrocarpa* = *Lindera umbellata*
- T3850 *Lindera glauca* (Lauraceae); SHAN HU JIAO; Greyblue Spicebush. Used part: fruit. TCM Effects: To warm center and dissipate cold, move *qi* and relieve pain, calm asthma. TCM Indications: Cold pain in stomach duct and abdomen, glomus fullness, asthma. Isolated compounds: 2557, 3241, 3242.
- T3851 *Lindera glauca* (Lauraceae); SHAN HU JIAO YE; Greyblue Spicebush Leaf. Used part: leaf. TCM Effects: To resolve toxin and cure sores, dispel wind and relieve pain, relieve itch, stanch bleeding. TCM Indications: Toxin swelling of sores, wind-damp impediment pain, knocks and falls, bleeding due to external injury, itchy skin, snake or insect bites. Isolated compounds: 15727.
- T3852 *Lindera megaphylla* (Lauraceae); HEI KE NAN; Largeleaf Spicebush. Used part: root, bark or branch. TCM Effects: To dispel wind and eliminate damp, warm center and move *qi*, disperse swelling and relieve pain. TCM Indications: Wind-damp impediment pain, impediment pain numbness, cold pain in stomach duct and abdomen, mounting *qi*, swelling pain in throat, lichen sore. Isolated compounds: 12877, 14161, 14483, 14640, 15738, 15802, 15803.
- T3853 *Lindera obtusiloba* (Lauraceae); SAN ZUAN FENG; Japanese Spicebush. Used part: bark. TCM Effects: To warm center and move *qi*, quicken blood and dissipate stasis. TCM Indications: Pain in heart and abdomen, knocks and falls, blood stasis swelling and pain, sore toxin. Isolated compounds: 2836, 2837, 3040, 4843, 4844, 11566, 11567, 11568, 15902, 15903, 15904, 20369, 21045.
- T3854 *Lindera strychnifolia* [Syn. *Lindera aggregata*] (Lauraceae); WU YAO; Combined Spicebush. Used part: tuberoid. TCM Effects: To normalize *qi* and relieve pain, warm kidney and disperse cold. TCM Indications: Distending pain in chest and abdomen, *qi* counterflow with rapid asthma, bladder vacuity cold, enuresis and frequent urination, mounting *qi*, dysmenorrhea. Isolated compounds: 3241, 3464, 4942, 9669, 9670, 11494, 11495, 12573, 12866, 12867, 12868, 12869, 12870, 12871, 12872, 12874, 12875, 15428, 20409, 20412, 20413.
- T3855 *Lindera triloba* (Lauraceae); SAN YE DIAO ZHANG; Threeleaf Spicebush\*. Isolated compounds: 19837.
- T3856 *Lindera umbellata* [Syn. *Lindera erythrocarpa*] (Lauraceae); DIAO ZHANG GEN PI; Largeleaf Spicebush Root-bark. Used part: root cortex. TCM Effects: To warm stomach and center, move *qi* and relieve pain, dispel wind and eliminate damp. TCM Indications: Running piglet, beriberi, edema, scab and lichen, bleeding due to external injury. Isolated compounds: 3702, 4936, 5969, 12564, 12573, 15500.
- T3857 *Lindera umbellata* [Syn. *Lindera erythrocarpa*] (Lauraceae); DIAO ZHANG ZHI YE; Largeleaf Spicebush Branch-leaf. Used part: branch-leaf. TCM Effects: To dispel wind and kill worms, close sores and stanch bleeding. TCM Indications: Scab and lichen with itching sores, bleeding due to external injury, cracking of hands and feet. Isolated compounds: 16697.
- T3858 *Linum album* (Linaceae); BAI YA MA; White Flax. Isolated compounds: 5093, 16793, 16794.

- T3859 *Linum usitatissimum* (Linaceae); YA MA; Common Flax. Used part: root, leaf. TCM Effects: To calm liver, quicken blood. TCM Indications: Liver wind headache, knocks and falls, swollen welling abscess and clove sores. Isolated compounds: 8316, 9616, 11773, 12854, 12891, 12893, 12895, 12896, 13003, 15429, 16196, 22464.
- T3860 *Linum usitatissimum* (Linaceae); YA MA ZI; Common Flax Seed. Used part: seed. TCM Effects: To nourish blood and dispel wind, moisten dryness and free stool. TCM Indications: Leprosy, dry cracked skin, itchy skin, hair loss, sores eczema, intestinal dry and constipation. Isolated compounds: 4511, 4512, 4513, 4514, 6729, 12854.
- T3861 *Liparis auriculata* (Orchidaceae); ER XING YANG ER LAN; Auriculate Twayblade\*. Isolated compounds: 2015.
- T3862 *Liparis loeselii* (Orchidaceae); LUO XI YANG ER SUAN; Fen Orchid. Isolated compounds: 2015.
- T3863 *Liparis nervosa* (Orchidaceae); JIAN XUE QING; Nervate Twayblade. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Stomach heat blood ejection, lung heat hemoptysis, intestinal wind bleeding, flooding and spotting, bleeding during operation, bleeding due to external injury, toxin swelling of sores, poisonous insect stings, knocks and falls. Isolated compounds: 15506, 15511.  
*Lippia citriodora* = *Verbena triphylla*
- T3864 *Lippia dulcis* (Verbenaceae); TIAN SHE CAO; Sweet-tongue Lippia\*. Isolated compounds: 580, 3745, 4830, 6148, 6930, 6951, 6953, 7591, 9450, 10751, 11195, 12456, 12902, 19211.
- T3865 *Lippia nodiflora* (Verbenaceae); PENG LAI CAO; Knotteflower Phyla Herb. Used part: whole herb. TCM Effects: To dispel wind and clear heat, resolve toxin and disperse swelling. TCM Indications: Throat moth, swelling toxin of welling abscess and flat abscess, heat dysentery, strangury, *gan* of teeth and gum, zoster. Isolated compounds: 7556, 7557, 15648, 15649, 15650.
- T3866 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*] (Hamamelidaceae); FENG XIANG SHU; Beautiful Sweetgum Leaf. Used part: leaf. TCM Effects: To move *qi* and relieve pain, resolve toxin, stanch bleeding. TCM Indications: Pain in stomach duct, abdominal pain due to summerheat damage, dysentery, diarrhea, swollen welling abscess and sores, eczema, blood ejection, hemoptysis, bleeding due to external injury. Isolated compounds: 6482, 12843, 15179, 20988.
- T3867 *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*] (Hamamelidaceae); LU LU TONG; Beautiful Sweetgum. Used part: inflorescence. TCM Effects: To expel wind and eliminate damp, soothe liver and quicken network vessels, disinherit water. TCM Indications: Wind-damp impediment pain, numbness in limbs, hypertonicity of limbs, pain in stomach duct and abdomen, amenorrhea, galactostasis, edema distention fullness, eczema. Isolated compounds: 231, 2338, 2558, 3303, 12904, 12906, 20417, 20418.
- T3868 *Liquidambar orientalis* (Hamamelidaceae); SU HE XIANG; Oriental Sweetgum Resin. Used part: balsam from trunk. TCM Effects: To open orifices, break foul, relieve pain. TCM Indications: Wind stroke with phlegm reversal, sudden clouding collapse, cold pain in chest and abdomen, fright epilepsy, warm disease. Isolated compounds: 3695, 6980, 16402, 20417, 22336.
- Liquidambar taiwaniana* = *Liquidambar formosana*
- T3869 Liquor JIU Liquor. TCM Effects: To quicken blood and free vessels, dissipate cold, free medicinal strength. TCM Indications: Wind-cold impediment pain, hypertonicity of sinews and vessels, chest impediment, cold pain in heart and abdomen. Isolated compounds: 1103, 1104, 7418, 7423, 8808, 13456, 16010.
- T3870 *Liriodendron* spp. (Magnoliaceae). Isolated compounds: 15751.
- T3871 *Liriodendron tulipifera* (Magnoliaceae); BEI MEI E ZHANG QIU; Yellow Poplar. Used part: bark. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve cough. TCM Indications: Wind-damp impediment pain, wind-cold cough. Isolated compounds: 2838, 4923, 7030, 7031, 11083, 12897, 12917, 16339, 16973, 19540, 22103.
- T3872 *Liriope muscari* (Liliaceae); DUAN TING SHAN MAI DONG; Short-stipe Liriope\*. Isolated compounds: 4188, 4299, 12919, 16050, 22270.
- T3873 *Liriope platyphylla* (Liliaceae); KUO YE SHAN MAI DONG; Broadleaf Liriope\*. Used part: tuberoid. TCM Effects: See *Liriope spicata*. TCM Indications: See *Liriope spicata*. Isolated compounds: 16147, 19070.
- T3874 *Liriope spicata* (Liliaceae); SHAN MAI DONG. Equivalent plant: *Liriope platyphylla*. Used part: tuberoid. TCM Effects: To nourish *yin* and engender liquid. TCM Indications: *Yin* vacuity lung dryness, cough of profuse phlegm, stomach *yin* insufficiency, dry mouth and throat, intestinal dry and constipation. Isolated compounds: 19070.
- T3875 *Liriope spicata* var. *prolifera* (Liliaceae); HU BEI SHAN MAI DONG; Hubei Liriope. Used part: tuberoid. TCM Effects: See *Ophiopogon japonicus*. TCM Indications: See *Ophiopogon japonicus*. Isolated compounds: 618, 19071, 19072.
- T3876 *Litchi chinensis* (Sapindaceae); LI ZHI; Lychee. Used part: fruit. TCM Effects: To engender liquid and boost blood, rectify *qi* and relieve pain. TCM Indications: Vexation and thirst, hiccough, stomachache, scrofula, swelling of clove, toothache, bleeding due to external injury. Isolated compounds: 7852, 7853.
- T3877 *Litchi chinensis* (Sapindaceae); LI ZHI HE; Lychee Seed. Used part: seed. TCM Effects: To rectify *qi*, dispel cold, relieve pain, resolve binds. TCM Indications: Mounting *qi* pain, painful swollen testes, premenstrual abdominal pain, postpartum abdominal pain. Isolated compounds: 14358.
- T3878 *Lithocarpus polystachyus* (Fagaceae); DUO SUI SHI KE YE; Manyspike Tanoak Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, transform phlegm, dispel wind, lower blood pressure. TCM Indications: Hypertension, damp-heat diarrhea dysentery, lung heat cough, sores with welling abscess and flat abscess, dry-itchy skin. Isolated compounds: 1113, 6918, 10645, 12921, 12922, 14351, 21878.
- T3879 *Lithocarpus* sp. (Fagaceae). Isolated compounds: 20711.
- T3880 *Lithospermum arvense* (Boraginaceae); MAI JIA GONG; Corn Gromwell. Used part: fruit. TCM Effects: To warm center and move *qi*, disperse swelling and relieve pain. TCM Indications: Stomach cold distending pain, hyperchlorhydria, painful swelling from knocks and falls, fracture. Isolated compounds: 7996.
- T3881 *Lithospermum erythrorhizon* (Boraginaceae); ZI CAO; Redroot



- Gromwell. Equivalent plant: *Arnebia guttata*, *Arnebia euchroma*. Used part: root. TCM Effects: To cool blood and quicken blood, resolve toxin and outthrust papules. TCM Indications: Macula, measles papules, blood ejection, spontaneous external bleeding, hematuria, purpura, jaundice, welling abscess and flat abscess, scalds. Isolated compounds: 244, 309, 514, 908, 910, 1233, 1234, 1259, 1744, 2887, 5214, 5258, 6302, 6303, 6539, 6722, 6726, 10266, 10535, 11107, 11300, 11765, 12927, 12928, 14120, 14202, 15145, 15850, 15851, 15852, 15853, 15854, 15953, 17933, 18780, 19819, 19820, 19821, 19822, 19823, 19824, 19825, 20968, 21039.
- T3882 *Lithospermum officinale* (Boraginaceae); BAI GUO ZI CAO; Common Gromwell. Used part: whole herb. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Arthritis. Isolated compounds: 1745, 12925, 19819.
- T3883 *Lithospermum ruderalis* (Boraginaceae); LU BIAN ZI CAO; Wild Gromwell\*. Isolated compounds: 12925.
- T3884 *Lithraea caustica* SHENG MU. Isolated compounds: 16622.
- T3885 *Litsea cubeba* (Lauraceae); CHENG QIE ZI; Mountain Spicy Tree. Used part: fruit. TCM Effects: To warm center and relieve pain, move *qi* and quicken blood, calm asthma, disinhibit urine. TCM Indications: Chronic bronchitis, bronchial asthma, asthma, cold pain in stomach duct and abdomen, food accumulation and *qi* distention, stomach reflux vomiting, summerheat stroke with vomiting and diarrhea, diarrhea, cold mounting with abdominal pain, cold-damp water drum distention, inhibited urination, opacity of urine, toxin swelling of sores, toothache, cold-damp impediment pain, knocks and falls. Isolated compounds: 3767, 4843, 11344, 12573, 13373.
- T3886 *Litsea euosma* (Lauraceae); QING XIANG MU JIANG ZI; Fourflower Litse. Used part: leaf. TCM Effects: To dispel wind and move *qi*, fortify spleen and disinhibit damp, resolve toxin. TCM Indications: Abdominal distention and pain, summerheat-damp vomiting and diarrhea, pain in joints, edema, innominate toxin swelling. Isolated compounds: 10525.
- T3887 *Litsea glutinosa* (Lauraceae); CHAN GAO MU JIANG ZI; Gluey Litse. Used part: bark and leaf. TCM Effects: To draw out toxin and engender flesh, stanch bleeding, disperse swelling and relieve pain. TCM Indications: Swollen welling abscess, sore and boil, knocks and falls, bleeding due to external injury. Isolated compounds: 2538.
- T3888 *Litsea glutinosa* var. *glabrata* (Lauraceae); WU MAO CHAN GAO SHU; Glabrous Litse\*. Isolated compounds: 11256.
- T3889 *Litsea gracilipes* (Lauraceae); XI BING MU JIANG ZI; Slenderstalk Litse\*. Isolated compounds: 7512.
- T3890 *Litsea grandis* (Lauraceae); DA MU JIANG ZI; Grand Litse\*. Isolated compounds: 8979.
- T3891 *Litsea laurifolia* (Lauraceae); YUE GUI SHU YE MU JIANG ZI; Laurelleaf Litse\*. Isolated compounds: 2538.
- T3892 *Litsea leefeana* (Lauraceae); LI FEI MU JIANG ZI; Leefe Litse\*. Isolated compounds: 2538.
- T3893 *Litsea pungens* (Lauraceae); ZHEN CAI; Pungent Litse. Used part: wood. TCM Indications: Cough of phlegm-rheum, accumulation-gathering and distention-fullness, beriberi, sore and scab in children. Isolated compounds: 4843, 5968, 6543, 12564, 12574, 16562, 21044.
- T3894 *Litsea salicifolia* (Lauraceae). Isolated compounds: 15738.
- T3895 *Litsea sebifera* (Lauraceae); LA ZHI MU JIANG ZI; Waxy Litse\*. Isolated compounds: 585.
- T3896 *Litsea turfosa* (Lauraceae); NI ZHAO MU JIANG ZI; Sloughy Litse\*. Isolated compounds: 2538, 4906.
- T3897 *Litsea verticillata* (Lauraceae); DIE DA LAO; Whorlleaf Litse. Used part: stem-leaf or root. TCM Effects: To dispel wind and free network vessels, dissipate stasis and relieve pain. TCM Indications: Wind-damp impediment pain, numbness in limbs, stomachache, dysmenorrhea, painful swelling from knocks and falls. Isolated compounds: 1473, 5046, 6909, 6910, 6911, 7504, 11784, 12929, 12930, 12931, 12932, 12933, 15966, 22428.
- T3898 *Lobelia chinensis* [Syn. *Lobelia radicans*] (Campanulaceae); BAN BIAN LIAN; Chinese Lobelia. Used part: whole herb. TCM Effects: To disinhibit urine and disperse edema, clear heat and resolve toxin, lower blood pressure. TCM Indications: Edema, edema and enlarged abdomen, edema in face and foot, swollen welling abscess and clove sores, snake or insect bites. Isolated compounds: 9818, 11506, 12937, 12938, 12939, 12940, 18524, 18525, 20444.
- T3899 *Lobelia hassleri* (Campanulaceae); HA SHI SHAN GENG CAI; Hassler Lobelia\*. Isolated compounds: 12937, 12939.
- T3900 *Lobelia inflata* (Campanulaceae); BEI MEI ZHOU SHAN GENG CAI; Indian Tobacco. Isolated compounds: 11507, 12937, 12939.
- T3901 *Lobelia nicotianaefolia* (Campanulaceae); YAN CAO HUA SHAN GENG CAI; Nicotianflower Lobelia\*. Isolated compounds: 12939. *Lobelia radicans* = *Lobelia chinensis*
- T3902 *Lobophytum* sp. Isolated compounds: 888, 890, 1759, 1760, 1761, 7248, 8674, 9488, 10158, 15673.
- T3903 *Lolium multiflorum* (Poaceae); DUO HUA HEI MAI CAO; Italian Ryegrass. Isolated compounds: 1342, 22158.
- T3904 *Lonchocarpus atropurpureus* (Fabaceae); Lancepod. Isolated compounds: 5972, 21719.
- T3905 *Lonchocarpus latifolius* (Fabaceae). Isolated compounds: 6222, 6229, 6309, 13933, 14368.
- T3906 *Lonchocarpus* sp. (Fabaceae). Isolated compounds: 4872.
- T3907 *Lonchocarpus xuul* (Fabaceae). Isolated compounds: 5103, 14105, 20170, 22810.
- T3908 *Lonicera bournei* (Caprifoliaceae); XI NAN REN DONG; South-western Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 2572, 2573, 7425.
- T3909 *Lonicera confusa* (Caprifoliaceae); HUA NAN REN DONG; Wild Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 3551.
- T3910 *Lonicera fulvotomentosa* (Caprifoliaceae); HUANG HE MAO REN DONG; Yellowhair Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 2887, 3551, 7995, 9276, 13137, 19317.
- T3911 *Lonicera hypoglauca* (Caprifoliaceae); XIAN YE REN DONG; Glaucousback Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 3551.

- T3912 *Lonicera japonica* (Caprifoliaceae); JIN YIN HUA; Japanese Honeysuckle. Equivalent plant: *Lonicera confusa*, *Lonicera hypoglauca*, *Lonicera fulvotomentosa*, *Lonicera macranthoides*, *Lonicera bournei*, *Lonicera similis*. Used part: flower bud. TCM Effects: To clear heat and resolve toxin. TCM Indications: Infection of upper respiratory tract, tonsillitis, acute laryngitis, skin suppurations, swelling abscess, viral conjunctivitis, influenza, pneumonia, mastitis, acute appendicitis, warm disease fever, heat toxin blood dysentery, swollen swelling abscess and clove sores, throat impediment. Isolated compounds: 878, 879, 1511, 2275, 2280, 2284, 2353, 2887, 3231, 3551, 3602, 3768, 7469, 7521, 7734, 8312, 8701, 9260, 9520, 10735, 11083, 11084, 11085, 11121, 11327, 11328, 12849, 12853, 12949, 12950, 12985, 12986, 12987, 12989, 13137, 13298, 13299, 13302, 13303, 14162, 14554, 14557, 14664, 15520, 17094, 17376, 19983, 19987, 20369, 20995.
- T3913 *Lonicera japonica* (Caprifoliaceae); REN DONG TENG; Japanese Honeysuckle Vine. Used part: stem-branch. TCM Effects: To clear heat and resolve toxin, free network vessels. TCM Indications: Warm disease fever, swelling toxin of sore and swelling abscess, heat toxin blood dysentery, wind-damp-heat impediment. Isolated compounds: 1577, 3342, 3551, 9262, 9263, 9268, 9269, 9270, 9271, 9272, 9276, 12987, 13140, 16049, 16053, 16054, 19624, 19636, 22606.
- T3914 *Lonicera macranthoides* (Caprifoliaceae); HUI ZHAN MAO REN DONG; Largeflower-like Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 13298, 13299, 13300, 13301.
- T3915 *Lonicera morrowii* (Caprifoliaceae); MO LUO SHI REN DONG; Morrow Honeysuckle. Isolated compounds: 12229, 14982.
- T3916 *Lonicera nigra* (Caprifoliaceae); HEI REN DONG; Black Honeysuckle. Isolated compounds: 2973, 16050.
- T3917 *Lonicera quinquelocularis* (Caprifoliaceae); WU SHI REN DONG; Five-room Honeysuckle\*. Isolated compounds: 1517, 12950, 20503.
- T3918 *Lonicera similis* (Caprifoliaceae); XI ZHAN MAO REN DONG; Shortbraet Honeysuckle. Used part: flower bud. TCM Effects: See *Lonicera japonica*. TCM Indications: See *Lonicera japonica*. Isolated compounds: 2887, 3551, 11328.
- T3919 *Lonicera* sp. (Caprifoliaceae). Isolated compounds: 3981.
- T3920 *Lophatherum gracile* (Poaceae); DAN ZHU YE; Common Lophatherum. Used part: aerial parts. TCM Effects: To clear heat and eliminate vexation, disinhibit urine. TCM Indications: Febrile diseases with vexation and thirst, inhibited voidings of reddish urine, dribbling pain of urination, mouth sore, tongue sores. Isolated compounds: 1823, 4546.
- T3921 *Lophatherum gracile* (Poaceae); DAN ZHU YE GEN; Common Lophatherum Root. Used part: rhizome and root. TCM Effects: To clear heat and disinhibit urine. TCM Indications: Fever, thirst, vexation, inhibited urination. Isolated compounds: 1823, 4546.
- T3922 *Lophopetalum wallichii* (Celastraceae); WO LI HE GUAN BAN; Wallich Crestpetal-tree. Isolated compounds: 15919.
- T3923 *Lophophora williamsii* (Cactaceae); AN LU LONG SHE LAN; Peyote. Isolated compounds: 6559, 13001, 13795, 14583, 22158.
- T3924 *Lophytum* sp. Isolated compounds: 21820.  
*Loranthus chinensis* = *Loranthus parasiticus*
- T3925 *Loranthus parasiticus* [Syn. *Loranthus chinensis*; *Taxillus chinensis*] (Loranthaceae); SANG JI SHENG; Parasite Scurrella. Used part: stem and branch-leaf. TCM Effects: To dispel wind-damp, strengthen sinews and bones, quicken blood and resolve toxin. TCM Indications: Angina pectoris, arrhythmia, hypertension, wind-damp impediment pain, aching in lumbus and knees, stomachache, scant breast milk, knocks and falls, toxin swelling of sores, frostbite. Isolated compounds: 1113, 2039, 13098, 16050, 18317, 18411.
- T3926 *Loropetalum chinense* (Hamamelidaceae); JI MU; Chinese Loropetalum. Used part: leaf or stem. TCM Effects: To clear heat and relieve cough, promote contraction and stanch bleeding. TCM Indications: Angina pectoris, senile bronchitis, indigestion, duodenal bleeding, uterine bleeding, lung heat cough, hemoptysis, spontaneous external bleeding, hemochezia, dysentery, diarrhea, flooding and spotting, infection of skin. Isolated compounds: 3551, 8095, 8971.
- T3927 *Lotus australis* (Fabaceae); AO ZHOU BAI MAI GEN; Austral Bird's Foot Trefoil. Isolated compounds: 13003.
- T3928 *Lotus corniculatus* (Fabaceae); DI YANG QUE; Birdsfoot Trefoil. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, relieve cough and calm asthma, disinhibit damp and disperse glomus. TCM Indications: Wind-heat cough, swelling pain in throat, glomus fullness, clove sore, innominate toxin swelling, eczema, dysentery, hemochezia from hemorrhoids. Isolated compounds: 3059, 8779, 8782, 8964, 18309, 21127.
- T3929 *Lotus helleri* (Fabaceae). Isolated compounds: 9596.
- T3930 *Lotus pedunculatus* (Fabaceae); HUA XU GENG BAI MAI GEN; Greater Bird's-foot-trefoil. Isolated compounds: 19394.
- T3931 *Lotus polyphyllus* (Fabaceae); DUO YE BAI MAI GEN; Leafy Trefoil\*. Isolated compounds: 11653, 12031, 18334.
- T3932 *Ludwigia octovalvis* (Onagraceae); MAO CAO LONG; Water Seedbox\*. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Common cold with fever, child *gan* fever, swelling pain in throat, mough and tongue sores, hypertension, edema, damp-heat diarrhea dysentery, strangury with pain, white turbidity, vaginal discharge, mammary welling abscess, swelling toxin of clove sore, hemorrhoids, burns and scalds, poisonous snake bites. Isolated compounds: 4164, 4165, 4166, 16050, 16845, 22270.
- T3933 *Luffa acutangula* (Cucurbitaceae); YUE SI GUA; Singkwa Towelgourd. Used part: dried vascular bundles of ripe fruit. TCM Effects: See *Luffa cylindrica*. TCM Indications: See *Luffa cylindrica*. Isolated compounds: 9717.
- T3934 *Luffa cylindrica* (Cucurbitaceae); SI GUA; Suakwa Vegetablesponge. Equivalent plant: *Luffa acutangula*. Used part: dried vascular bundles of ripe fruit. TCM Effects: To clear heat and resolve phlegm, cool blood and resolve toxin. TCM Indications: Febrile diseases with vexation and thirst, cough of phlegm asthma, intestinal wind bleeding, bleeding from hemorrhoids, blood strangury, flooding and spotting, sores with welling abscess and flat abscess, galactostasis, innominate toxin swelling, edema. Isolated compounds: 2687, 3774, 4317, 13061, 13062, 13063, 13064, 13288, 20168, 20237.
- T3935 *Luffa cylindrica* (Cucurbitaceae); SI GUA ZI; Suakwa Vegetablesponge Seed. Used part: seed. TCM Effects: To clear heat,

- disinhibit water, free stool, expel worms. TCM Indications: Edema, stone strangury, lung heat cough, intestinal wind bleeding, hemorrhoids and fistulas, constipation, ascariasis. Isolated compounds: 3318, 6733, 13659, 20237.
- T3936 *Luffa operculata* (Cucurbitaceae); NANG GAI SI GUA; Buchinha (Brazil Herb). Used part: aerial parts. TCM Effects: To disperse swelling and transform stasis, antiallergic. TCM Indications: Anaphylactic diseases (hay fever, pollinosis, allergic rhinitis, allergic conjunctivitis). Isolated compounds: 1825, 1827, 15376, 15377, 16126, 16127.
- T3937 *Lumbriconis heteropoda* (Eunicidae); YI ZU SUO SHA CAN; Heterofoot Lumbrineris\*. Used part: whole body. TCM Indications: Leg qi. Isolated compounds: 15490.
- T3938 *Lunaria* sp. (Brassicaceae). Isolated compounds: 833.
- T3939 *Lupinus albus* (Fabaceae); BAI YU SHAN DOU; White Lupin. Isolated compounds: 13088, 13089, 13150, 15070, 22667.
- T3940 *Lupinus angustifolius* (Fabaceae); AI SAI E BI YA YU SHAN DOU; Narrowleaf Lupin\*. Isolated compounds: 21146, 21147.
- T3941 *Lupinus formosus* (Fabaceae). Isolated compounds: 16789.
- T3942 *Lupinus hartwegii* (Fabaceae). Isolated compounds: 1478, 1479.
- T3943 *Lupinus luteus* (Fabaceae); HUANG YU SHAN DOU; Yellow Lupin. Isolated compounds: 8278, 8282, 8283, 11514, 13104, 13107, 20133.
- T3944 *Lupinus* sp. (Fabaceae). Isolated compounds: 6558, 8971, 22667.
- T3945 *Lupinus varius* (Fabaceae). Isolated compounds: 6955, 14084.
- T3946 *Luvunga scandens* (Rutaceae); SAN YE TENG JU; India Luvunga. Isolated compounds: 22781.
- T3947 *Luvunga* spp. (Rutaceae). Isolated compounds: 12847.
- T3948 *Lychnis coronaria* (Caryophyllaceae); MAO JIAN QIU LUO; Hairy Campion. Isolated compounds: 4903, 6682, 10063, 17662, 20271, 21415, 21590.
- T3949 *Lychnis dioica* (Caryophyllaceae); HONG JIAN QIU LUO; Red Campion. Isolated compounds: 17181.
- T3950 *Lychnis fulgens* (Caryophyllaceae); DA HUA JIAN QIU LUO; Brilliant Campion. Used part: root and whole herb. TCM Effects: To clear heat and disinhibit urine, fortify spleen, quiet spirit. TCM Indications: Inhibited urination, child gan accumulation, night sweating, headache, insomnia. Isolated compounds: 6678, 17662.
- T3951 *Lychnis viscaria* (Caryophyllaceae); YANG JIAN QIU LUO; German Catchfly. Isolated compounds: 6852.
- T3952 *Lychnophora ericoides* (Asteraceae); Falsa Arnica (in Brazil). Isolated compounds: 2455, 5531.
- T3953 *Lycianthes biflora* (Solanaceae); HONG SI XIAN; Twoflower Red silkyarn. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse phlegm and relieve cough. TCM Indications: Cough, asthma, dysentery, heat strangury, rabid dog bite, red swelling of clove sore, bleeding due to external injury. Isolated compounds: 2368, 3723.
- T3954 *Lycium barbarum* (Solanaceae); NING XIA GOU QI GEN PI; Barbary Wolfberry Root-bark\*. Used part: root cortex. TCM Effects: See *Lycium chinense*. TCM Indications: See *Lycium chinense*. Isolated compounds: 19542.
- T3955 *Lycium barbarum* (Solanaceae); NING XIA GOU QI ZI; Barbary Wolfberry Fruit. Used part: fruit. TCM Effects: See *Lycium chinense*. TCM Indications: See *Lycium chinense*. Isolated compounds: 2001, 4293, 10872, 13823, 17093, 17238, 19542, 22976.
- T3956 *Lycium chinense* (Solanaceae); GOU QI GEN PI; Chinese Wolfberry Root-bark. Equivalent plant: *Lycium barbarum*. Used part: root cortex. TCM Effects: To eliminate heat in blood, lower vacuity heat. TCM Indications: Diabetes mellitus, malaria, tidal fever with night sweat, child gan accumulation with fever, cough and hemoptysis or dyspnea, blood ejection, spontaneous external bleeding. Isolated compounds: 1345, 3695, 5534, 9366, 12327, 12891, 12893, 16856, 19542, 19983, 21594.
- T3957 *Lycium chinense* (Solanaceae); GOU QI YE; Chinese Wolfberry Leaf. Used part: leaf. TCM Effects: To supplement vacuity and boost essence, clear heat and allay thirst, dispel wind and brighten eyes. TCM Indications: Vacuity taxation with fever, vexation and thirst, sore red eyes and clouded vision, eye screen, night blindness, flooding, vaginal discharge, heat toxin sores. Isolated compounds: 4592, 4593, 10913, 11082, 18266, 19987, 22256, 22702, 22703.
- T3958 *Lycium chinense* (Solanaceae); GOU QI ZI; Chinese Wolfberry Fruit. Equivalent plant: *Lycium barbarum*. Used part: fruit. TCM Effects: To nourish liver, brighten eyes, enrich kidney, moisten lung, lower blood pressure. TCM Indications: Lassitude in lumbus and knees, emission, dizziness and dim vision, lung disease with cough, diabetes mellitus. Isolated compounds: 1048, 1113, 1845, 2001, 2318, 3040, 3209, 3585, 3695, 3773, 4293, 4468, 4491, 8817, 10233, 10872, 11123, 12488, 12891, 13098, 14230, 14236, 14350, 14352, 14387, 14433, 14558, 14625, 15528, 15729, 15771, 15772, 15901, 17238, 18834, 19120, 19542, 19983, 20369, 20732, 21945, 22060, 22554, 22976.
- T3959 *Lycium chinense* var. *potaninii* (Solanaceae); BEI FANG GOU QI GEN PI; Northern Wolfberry Root-bark\*. Isolated compounds: 19542.
- T3960 *Lycogala epidendrum* (Lycogalaceae); FEN LIU JUN; Wolfs-milk Slime. Used part: sporocarp. TCM Effects: To eliminate inflammation and relieve pain. Isolated compounds: 1624, 1625, 2473, 2474, 2475, 2476, 13195, 13196, 13197, 13198, 13199, 20278. *Lycoperdon capitatum* = *Pisolithus tinctorius*
- T3961 *Lycoperdon pyriforme* (Lycoperdaceae); LI XING MA BO; Pear-like Puff-ball. Used part: sporocarp. TCM Effects: See *Lasiochaera fenlzii*. TCM Indications: See *Lasiochaera fenlzii*. Isolated compounds: 14207.
- T3962 *Lycopersicon esculentum* (Solanaceae); FAN QIE; Tomato. Used part: fresh fruit. TCM Effects: To engender liquid and allay thirst, fortify stomach and disperse food. TCM Indications: Thirst, inappetence. Isolated compounds: 1162, 2309, 3208, 3210, 3215, 7375, 7376, 7979, 9363, 11418, 11754, 13212, 13213, 13214, 13215, 13216, 13217, 13218, 13219, 13222, 13243, 14163, 15135, 17090, 18003, 19087, 19760, 20060, 20146, 21434, 21435, 21662, 22058.
- T3963 *Lycopersicon esculentum* var. *cerasiforme* (Solanaceae); YING TAO FAN QIE; Cherry Tomato\*. Isolated compounds: 7377, 7378, 13242.
- T3964 *Lycopodium alpinum* [Syn. *Diphasiastrum alpinum*] (Lycopodiaceae); GAO SHAN BIAN ZHI SHI SONG; Alpine Clubmoss\*. Used part: whole herb. TCM Effects: To quicken blood, relieve pain. TCM Indications: Impediment pain in joints, knocks and falls. Isolated compounds: 13187.
- T3965 *Lycopodium annotinum* (Lycopodiaceae); DAN SUI SHI SONG;

- Interrupted Clubmoss. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood. TCM Indications: Wind-damp impediment pain, numbness in limbs, menstrual disorder, knocks and falls. Isolated compounds: 1300, 1323, 1332, 1333, 13192, 13200, 13244.
- T3966 *Lycopodium annotinum* var. *acrifolium* (Lycopodiaceae); LIANG NIAN SHI SONG; Sharpleaf Clubmoss\*. Isolated compounds: 567.
- T3967 *Lycopodium carolinianum* (Lycopodiaceae); KA LUO LAI NA SHI SONG; Carolina Clubmoss\*. Isolated compounds: 3431.
- T3968 *Lycopodium carolinianum* var. *affine* (Lycopodiaceae); SI KA LUO LAI NA SHI SONG; Carolina-like Clubmoss\*. Isolated compounds: 3207.
- T3969 *Lycopodium casuarinoides* (Lycopodiaceae); TENG SHI SONG. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood, brighten eyes, resolve toxin. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, knocks and falls, menstrual disorder, night sweating, conjunctivitis, night blindness, burns and scalds, toxin swelling of sores. Isolated compounds: 16117.
- T3970 *Lycopodium cernuum* (Lycopodiaceae); PU DI WU GONG; Cernuous Clubmoss. Used part: whole plant. TCM Effects: See *Lycopodium japonicum*. TCM Indications: See *Lycopodium japonicum*. Isolated compounds: 1488, 3040, 3430, 3431, 7017, 7018, 13170, 13171, 13172, 13173, 13174, 13175, 13176, 13177, 13184, 15527, 16117, 16327, 16377, 19768, 19774, 20369.  
*Lycopodium clavatum* = *Lycopodium japonicum*
- T3971 *Lycopodium complanatum* (Lycopodiaceae); GUO JIANG LONG; Complanate Clubmoss. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood. TCM Indications: Wind-damp impediment pain, deadlimb, knocks and falls, menstrual disorder. Isolated compounds: 3948, 13183, 13223, 14571, 15889, 16377, 16421, 19768, 21425.
- T3972 *Lycopodium inundatum* (Lycopodiaceae). Isolated compounds: 16117.
- T3973 *Lycopodium japonicum* [Syn. *Lycopodium clavatum*] (Lycopodiaceae); SHEN JIN CAO; Common Japanese Clubmoss. Equivalent plant: *Lycopodium cernuum*. Used part: whole plant. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood, relieve cough, resolve toxin. TCM Indications: Wind-cold-damp impediment, aching pain in joints, arthritis, dysmenorrhea, skin numbness, weakness in limbs, jaundice, cough, knocks and falls, sores, zoster, scalds. Isolated compounds: 3809, 3810, 3813, 6122, 7741, 7768, 13182, 13185, 13186, 13191, 13223, 16117, 16313, 16375, 16376, 16377, 16420.
- T3974 *Lycopodium lucidulum* (Lycopodiaceae); GUANG LIANG SHI SONG; Shining Clubmoss\*. Isolated compounds: 2617, 5398, 5663, 5664, 5687, 5688, 13042, 13043, 13046, 13051, 16371, 16372, 16738, 17151, 20203, 21064, 21065, 21066, 21067.
- T3975 *Lycopodium megastachyum* (Lycopodiaceae). Isolated compounds: 17150, 19770.
- T3976 *Lycopodium obscurum* (Lycopodiaceae); YU BAI SHI SONG; Tree Clubmoss. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and free network vessels. TCM Indications: Wind-damp impediment pain, pain in lumbus and legs, numbness of limbs, sprain from knocks and falls, sequel of poliomyelitis. Isolated compounds: 379, 568, 2487, 13194, 15786, 16117, 16375, 16376, 21848.  
*Lycopodium phlegmaria* = *Phlegmariurus phlegmaria*  
*Lycopodium selago* = *Huperzia selago*  
*Lycopodium serratum* = *Huperzia serrata*
- T3977 *Lycopodium serratum* var. *thunbergii* (Lycopodiaceae); JU CHI SHI SONG; Sawtooth Clubmoss\*. Isolated compounds: 19764.
- T3978 *Lycopodium sitchense* (Lycopodiaceae). Isolated compounds: 16117.
- T3979 *Lycopus europaeus* (Lamiaceae); OU DI SUN; European Bugleweed. Isolated compounds: 12925.
- T3980 *Lycopus lucidus* (Lamiaceae); ZE LAN; Shiny Bugleweed. Used part: aerial parts. TCM Effects: To quicken blood and transform stasis, move water and disperse swelling, resolve toxin and eliminate welling abscess. TCM Indications: Amenorrhea, concretion and conglomeration, postpartum blood stasis abdominal pain, edema in body and face, knocks and falls, incised wound. Isolated compounds: 6178, 13224.
- T3981 *Lycopus lucidus* (Lamiaceae); ZE LAN GEN; Shiny Bugleweed Root. Used part: rhizome. TCM Effects: To transform stasis and stanch bleeding, boost *qi* and disinhibit water. TCM Indications: Blood ejection, spontaneous external bleeding, postpartum abdominal pain, vaginal discharge, jaundice, edema, *qi* vacuity and hypodynamia. Isolated compounds: 13224.
- T3982 *Lycopus virginicus* (Lamiaceae); FU JI NI YA DI SUN; Bugleweed. Isolated compounds: 12925.
- T3983 *Lycoris aurea* (Amaryllidaceae); DA YI ZHI JIAN; Golden Lycoris. Used part: bulb. TCM Effects: To moisten lung and relieve cough, resolve toxin and disperse swelling. TCM Indications: Lung heat cough, hemoptysis, *yin* vacuity consumption fever, inhibited urination, swelling toxin of welling abscess and sore, clove sore tubercle, burns and scalds. Isolated compounds: 8083, 9612, 13236, 13237, 13241, 18050, 20891.
- T3984 *Lycoris chinensis* (Amaryllidaceae); ZHONG GUO SHI SUAN; Chinese Lycoris. Used part: bulb. TCM Effects: See *Lycoris radiata*. TCM Indications: See *Lycoris radiata*. Isolated compounds: 17573.
- T3985 *Lycoris Guangxiensis* (Amaryllidaceae); GUANG XI SHI SUAN; Guangxi Lycoris. Isolated compounds: 15288, 15750.
- T3986 *Lycoris radiata* [Syn. *Amaryllis radiata*] (Amaryllidaceae); SHI SUAN; Shorttube Lycoris. Equivalent plant: *Lycoris chinensis*. Used part: bulb. TCM Effects: To dispel phlegm and promote vomiting, resolve toxin and dissipate binds. TCM Indications: Poliomyelitis, muscle weakness, rheumatic arthritis, pain in joints due to rheumatism, throat wind, nipple moth, swelling pain in throat, phlegm-drool and congesting lung, food poisoning, seep in chest and abdomen, malign sore and swelling toxin, hemorrhoids and fistulas, knocks and falls, intractable lichen, burns and scalds, snake bite. Isolated compounds: 4241, 5081, 5991, 6920, 8083, 9187, 9547, 9612, 13236, 13237, 13238, 13239, 13240, 13241, 14288, 15788, 17573, 17850, 18050, 20891, 22232.
- T3987 *Lycoris sanguinea* (Amaryllidaceae); TIE SE JIAN; Orange Lycoris. Isolated compounds: 13236, 13238, 13239.
- T3988 *Lycoris squamigera* (Amaryllidaceae); LU CONG; Autumn Lycoris. Used part: bulb. TCM Effects: To resolve toxin, dispel phlegm,

- disinhibit urine, promote vomiting. TCM Indications: Swelling pain in throat, swelling toxin of sore and welling abscess, scrofula, cough of phlegm asthma, edema, inhibited urination, food poisoning. Isolated compounds: 8083, 17573.
- T3989 *Lygodium flexuosum* [Syn. *Lygodium pinnatifidum*; *Ophioglossum flexuosum*] (Lygodiaceae); QU ZHOU HAI JIN SHA; Flexuose Climbing Fern. Used part: whole herb. TCM Effects: To soothe sinews and free network vessels, clear heat and disinhibit damp, stanch bleeding. TCM Indications: Wind-damp pain, numbness of limbs, knocks and falls, urinary tract infection, calculus of urinary system, edema, dysentery, swelling toxin of sore and welling abscess, infant mouth sore, fire eye, lichen, bleeding due to external injury. Isolated compounds: 13245, 14144, 19087.
- T3990 *Lygodium japonicum* (Lygodiaceae); HAI JIN SHA; Japanese Climbing Fern. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury, quicken blood and free network vessels. TCM Indications: Heat strangury, stone strangury, blood strangury, inhibited urination [=dysuria], edema, white turbidity, vaginal discharge, hepatitis, diarrhea, dysentery, common cold with fever, cough and asthma, swelling pain in throat, mouth sore, red eyes with gall, mumps, mammary welling abscess, erysipelas, zoster, burns and scalds, itchy skin, wound swelling from knocks and falls, wind-damp impediment pain, bleeding due to external injury. Isolated compounds: 4135.
- Lygodium pinnatifidum* = *Lygodium flexuosum*
- T3991 *Lyonia ovalifolia* (Ericaceae); LI MU; Tibet Lyonia. Used part: branchlet-leaf and fruit. TCM Effects: To quicken blood and relieve pain, dispel wind and resolve toxin. TCM Indications: Knocks and falls, fracture, lichen sore. Isolated compounds: 1928, 2332, 7278, 9915, 11085, 13246, 13247, 13248, 19987.
- T3992 *Lyonia ovalifolia* var. *elliptica* (Ericaceae); XIAO GUO NAN ZHU; Littlefruit Lyonia. Used part: branch-leaf, root or fruit. TCM Effects: To supplement spleen and boost kidney, quicken blood and strengthen sinews. TCM Indications: Spleen vacuity diarrhea, lassitude in lumbar and knees, knocks and falls. Isolated compounds: 13246, 13247, 13248.
- T3993 *Lyophyllum connatum* (Tricholomataceae); Oshiroishimeji (in Japanese). Isolated compounds: 15943.
- T3994 *Lysichitum americanum* (Araceae); MEI ZHOU GUAN YIN LIAN; Skunk Cabbage. Isolated compounds: 10629, 13259.
- T3995 *Lysidice rhodostegia* (Fabaceae); YI HUA; Redbracted Lysidice. Used part: root. TCM Effects: To quicken blood and relieve pain, disperse swelling and stanch bleeding. TCM Indications: Knocks and falls, fracture, wind-damp impediment pain, bleeding due to external injury. Isolated compounds: 13260, 13261, 13262, 14949, 14950, 17283, 18651.
- T3996 *Lysimachia candida* (Primulaceae); DAN TIAO CAO; White Pearlweed. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain, disinhibit damp and disperse swelling. TCM Indications: Swelling pain in throat, swelling toxin of welling abscess and sore, mammary welling abscess, poisonous snake bites, fracture due to knocks and falls, wind-damp impediment pain, beriberi with edema, paddy-field dermatitis. Isolated compounds: 3073.
- T3997 *Lysimachia capillipes* (Primulaceae); XI GENG XIANG CAO; Hairytalk Loosestrife. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, regulate menstruation, resolve toxin. TCM Indications: Common cold with cough, wind-damp impediment pain, distending pain in stomach duct and abdomen, menstrual disorder, clove sore, snake bite. Isolated compounds: 3123, 3124, 3125, 3126, 3127, 3128, 3129, 12020.
- T3998 *Lysimachia christinae* (Primulaceae); DA JIN QIAN CAO; Christina Loosestrife. Used part: herb. TCM Effects: To disinhibit water and free strangury, clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Gallstones, calculus of urinary system, heat strangury, nephritis with edema, damp-heat jaundice, swollen welling abscess, sore and boil, poisonous snake bite, knocks and falls. Isolated compounds: 11642, 12018, 12020, 12066, 12067, 12089, 12090, 18317, 21093, 21634.
- T3999 *Lysimachia clethroides* (Primulaceae); ZHEN ZHU CAI; Clethra Loosestrife. Used part: root or herb. TCM Effects: To quicken blood and regulate menstruation, disinhibit water and disperse edema. TCM Indications: Menstrual disorder, vaginal discharge, child *gan* accumulation, edema, dysentery, throat pain, mammary welling abscess, knocks and falls. Isolated compounds: 3030, 3032, 3033, 3034, 17858.
- T4000 *Lysimachia congestiflora* (Primulaceae); JU HUA GUO LU HUANG; Denseflower Loosestrife. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, relieve cough and transform phlegm, resolve toxin and disinhibit damp, disperse accumulation and expel stone. TCM Indications: Wind-cold common cold, cough with profuse phlegm, swelling pain in throat, jaundice, gallstones, urethral stone, child *gan* accumulation, welling abscess and flat abscess with clove sore, poisonous snake bite. Isolated compounds: 13263.
- T4001 *Lysimachia davurica* (Primulaceae); HUANG LIAN HUA; Dahurian Loosestrife. Used part: whole herb with root. TCM Effects: To calm and lower blood pressure. TCM Indications: Hypertension, headache, insomnia. Isolated compounds: 4699, 4700, 9484.
- T4002 *Lysimachia foenum-graecum* (Primulaceae); LING XIANG CAO; Strongfragrant Loosestrife. Used part: whole herb. TCM Effects: To resolve exterior, relieve pain, move *qi*, expel roundworm. TCM Indications: Common cold with headache, swelling pain in throat, toothache, distention fullness in chest and abdomen, ascariasis. Isolated compounds: 9500.
- T4003 *Lysimachia microcarpa* (Primulaceae); XIAO GUO XIANG CAO; Smallfruit Loosestrife\*. Used part: whole herb. TCM Effects: To diffuse lung and resolve exterior, relieve cough and calm asthma. TCM Indications: Common cold, cough, asthma. Isolated compounds: 9500.
- T4004 *Lysimachia paridiformis* (Primulaceae); CHONG LOU PAI CAO; Parishshape Loosestrife. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, relieve cough, resolve toxin. TCM Indications: Wind-damp pain, pain in stomach duct and abdomen, cough, knocks and falls, clove sore and swollen boil, poisonous snake bite. Isolated compounds: 16664.
- T4005 *Lysionotus pauciflorus* (Gesneriaceae); SHI DIAO LAN; Fewflower

Lysionotus. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, relieve cough and transform phlegm, dispel stasis and regulate menstruation. TCM Indications: Tuberculosis, bone tuberculosis, scrofula, chronic bronchitis, wind-damp impediment pain, cough and asthma with abundant phlegm, menstrual disorder, dysmenorrhea, knocks and falls, boil. Isolated compounds: 13264.

T4006 *Lythrum anceps* (Lythraceae); RI BEN QIAN QU CAI; Twoedged Loosestrife. Used part: whole herb. TCM Effects: See *Lythrum salicaria*. TCM Indications: See *Lythrum salicaria*. Isolated compounds: 13267.

T4007 *Lythrum salicaria* (Lythraceae); QIAN QU CAI; Spiked Loosestrife. Equivalent plant: *Lythrum anceps*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, promote contraction and stanch bleeding. TCM Indications: Dysentery, diarrhea, hematochezia, flooding, ulcerating sores, blood ejection, spontaneous external bleeding, bleeding due to external injury. Isolated compounds: 3551, 4439, 6757, 8095, 12952, 13268, 13269, 13270, 13271, 13272, 13273, 13274, 13275, 13276, 13277, 13278, 13279, 13280, 13460, 16196.

T4008 *Lytta caraganae* (Meloidae); QING NIANG ZI; Mung Bean Blister Beetle. Used part: dried body. TCM Effects: To attack toxin and expel stasis. TCM Indications: Scrofula, rabid dog bite. Isolated compounds: 3094.

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T4009 *Maackia amurensis* (Fabaceae); CHAO XIAN HUAI; Amur Maackia. Used part: flower. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Bleeding, sore toxin of welling abscess and flat abscess. Isolated compounds: 6290, 12258, 13281, 13901.

T4010 *Maackia* sp. (Fabaceae). Isolated compounds: 18020.

T4011 *Macadamia ternifolia* (Proteaceae); AO ZHOU JIAN GUO; Queensland Nut. Isolated compounds: 5283, 16561, 17963.

T4012 *Macaranga conifera* (Euphorbiaceae); ZHEN YE XUE TONG; Conifer Macaranga. Isolated compounds: 1405, 5919, 6497, 10400, 11248, 11490, 21440.

T4013 *Macaranga tanarius* (Euphorbiaceae); XUE TONG; Common Macaranga. Isolated compounds: 7617, 7950, 15876, 20667, 20668.

T4014 *Macaranga triloba* (Euphorbiaceae); SAN LIE XUE TONG; Trilobate Macaranga\*. Isolated compounds: 1411, 1416, 1437, 5638, 16498.

T4015 *Machaerium* spp. Isolated compounds: 3004.

T4016 *Machilus japonica* (Lauraceae); RI BEN NAN; Japanese Machilus\*. Isolated compounds: 8085, 13295.

T4017 *Machilus odoratissima* (Lauraceae); JI XIANG RUN NAN; Extreme-fragrant Machilus\*. Isolated compounds: 15994, 15995, 15996, 15997.

T4018 *Machilus thunbergii* (Lauraceae); HONG NAN PI; Red Nanmu Bark. Used part: bark. TCM Effects: To warm center and normalize *qi*, soothe channels and quicken blood, disperse swelling and relieve pain. TCM Indications: Sprain and contusion, incessant vomiting and diarrhea, cramp and swelling of feet. Isolated compounds: 3308, 8089, 9020, 11447, 12749, 13290, 13293, 15713, 15864, 15926, 18655, 19542, 19777.

T4019 *Machilus zuihoensis* (Lauraceae); TAI WAN RUI FANG RUN NAN;

Zuiho Machilus. Isolated compounds: 13294, 14047, 19628, 23029.

T4020 *Macleaya cordata* (Papaveraceae); BO LUO HUI; Pink Plumepoppy. Used part: whole herb with root. TCM Effects: To dispel wind, dissipate stasis, resolve toxin, relieve pain, kill worms. TCM Indications: Ulcer of uterine cervix, carcinoma of uterine cervix, carcinoma of thyroid, swollen welling abscess and clove sores, ulcer of lower limb, hemorrhoids, eczema, snake or insect bites, painful swelling from knocks and falls, pain in joints due to rheumatalgia, decayed toothache, intractable lichen, trichomoniasis, brandy nose. Isolated compounds: 930, 2523, 3498, 7399, 7416, 16473, 19284.

T4021 *Macleaya* spp. (Papaveraceae). Isolated compounds: 3498.

T4022 *Maclura pomifera* (Moraceae); SANG CHENG; Osage Orange. Isolated compounds: 4337, 9857, 15715, 16249, 17695.

T4023 *Maclura tinctoria* (Moraceae); ZHUO SE SANG CHENG; Tinctorial Osage Orange\*. Isolated compounds: 16210, 20327.

T4024 *Macroccoccus pomiferus* (Menispermaceae). Isolated compounds: 5082, 5085, 14106.

T4025 *Macropiper excelsum* (Piperaceae); GAO DA HU JIAO; Pepper-tree. Isolated compounds: 6745.

T4026 *Macrothelypteris oligophlebia* (Thelypteridaceae); JIN JI WEI BA CAO GEN; Needle-leaf Fern\*. Used part: rhizome. TCM Effects: To disinhibit water and disperse edema, clear heat and resolve toxin, stanch bleeding and kill worms. TCM Indications: Edema, sore and boil, burns and scalds, bleeding due to external injury, ascariasis. Isolated compounds: 5371, 10263, 13452.

T4027 *Maesa chisia* (Myrsinaceae); HUI YE DU JING SHAN; Greyleaf Maesa. Isolated compounds: 20169.

T4028 *Maesa indica* (Myrsinaceae); LIANG MIAN QING; Indian Maesa. Used part: whole herb or leaf. TCM Effects: To clear heat and disinhibit damp, lower blood pressure. TCM Indications: Hepatitis, diarrhea, measles papules, hypertension. Isolated compounds: 13350.

T4029 *Maesa japonica* (Myrsinaceae); DU JING SHAN; Japanese Maesa. Used part: root and leaf. TCM Effects: To dispel wind, resolve epidemic toxin, disperse swelling. TCM Indications: Febrile infectious diseases, generalized pain, vexation and agitation, thirst, edema, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 13350.

T4030 *Maesa lanceolata* (Myrsinaceae); PI ZHEN DU JING SHAN; Lanceolate Maesa\*. Isolated compounds: 253, 255, 6048, 6269, 12472, 13351, 13352, 13353, 13354, 13355, 13356, 13357, 13358, 13359, 13360, 13829, 13830.

T4031 *Maesa perliarius* (Myrsinaceae); JI YU DAN; Treasure Maesa. Used part: whole herb. TCM Effects: To joint bones and disperse swelling, eliminate putridity and engender flesh. TCM Indications: Fracture due to knocks and falls, knife wound, swelling of clove. Isolated compounds: 13349, 13358.

T4032 *Maesa tenera* (Myrsinaceae); RUAN RUO DU JING SHAN; Slender Maesa. Isolated compounds: 13362, 13363.

T4033 *Magnolia acuminata* (Magnoliaceae); JIAN JIAN MU LAN; Cucumber-tree. Isolated compounds: 592, 16830, 22383.

T4034 *Magnolia biloba* (Magnoliaceae); AO YE HOU PO; Twolobed Official Mangolia. Used part: bark. TCM Effects: See *Magnolia officinalis*. TCM Indications: See *Magnolia officinalis*. Isolated

- compounds: 7513, 7514, 9631, 11519, 21074.
- T4035 *Magnolia biondii* [Syn. *Magnolia fargesii*] (Magnoliaceae); WANG CHUN YU LAN; Biond Magnolia. Used part: flower bud. TCM Effects: See *Magnolia liliflora*. TCM Indications: See *Magnolia liliflora*. Isolated compounds: 1843, 2303, 2387, 2388, 2389, 2390, 2391, 2392, 2858, 5135, 7512, 7719, 7721, 11851, 12920, 13387, 16555, 17414.
- T4036 *Magnolia coco* (Magnoliaceae); YE HE HUA; Chinese Magnolia Flower. Used part: flower. TCM Effects: To move *qi* and dissipate stasis, relieve cough, check discharge. TCM Indications: Liver depression and *qi* pain, knocks and falls, concretion and conglomeration, Vaginal discharge. Isolated compounds: 1344, 12917, 13372, 19183, 20319.
- T4037 *Magnolia compressa* (Magnoliaceae); *Magnolia compressa*. Isolated compounds: 16439.
- T4038 *Magnolia denudata* [Syn. *Magnolia heptapata*] (Magnoliaceae); YU LAN; Yulan Magnolia. Used part: flower bud. TCM Effects: See *Magnolia liliflora*. TCM Indications: See *Magnolia liliflora*. Isolated compounds: 591, 946, 2759, 7719, 7722, 8086, 8093, 9209, 12750, 13374, 15426, 19183, 22383.  
*Magnolia fargesii* = *Magnolia biondii*
- T4039 *Magnolia grandiflora* (Magnoliaceae); HE HUA YU LAN; Southern Magnolia. Used part: flower and bark. TCM Effects: To dispel wind and dissipate cold, move *qi* and relieve pain. TCM Indications: Externally contracted wind-cold, headache and nasal congestion, distending pain in stomach duct, vomiting and diarrhea, hypertension, tuberculosis. Isolated compounds: 12917, 13374, 13375, 13376, 13377, 13388, 13654, 13655, 15781, 16977, 19183, 20569.  
*Magnolia heptapata* = *Magnolia denudata*
- T4040 *Magnolia kobus* (Magnoliaceae); RI BEN XIN YI; Kobus Magnolia. Isolated compounds: 7385, 19183.
- T4041 *Magnolia liliflora* (Magnoliaceae); XIN YI; Lily Magnolia Buds. Equivalent plant: *Magnolia liliflora*, *Magnolia sprengeri*, *Magnolia biondii*, *Magnolia denudata*. Used part: flower bud. TCM Effects: To dissipate wind-cold, relieve stuffed nose. TCM Indications: Wind-cold common cold, headache, nasal congestion and runny nose, nasitis, nasosinusitis. Isolated compounds: 3760, 7521, 12497, 13387, 16900, 22383.
- T4042 *Magnolia liliflora* (Magnoliaceae); ZI YU LAN PI; Lily Magnolia Bark. Used part: bark. TCM Effects: To rectify *qi* and eliminate damp, calm asthma. TCM Indications: Liquor jaundice, damp itchy in genitals, *lai*, double tongue, welling abscess and flat abscess, edema. Isolated compounds: 19183.
- T4043 *Magnolia mutabilis* (Magnoliaceae); BIAN XING MU LAN; Mutable Magnolia\*. Isolated compounds: 19777.
- T4044 *Magnolia obovata* (Magnoliaceae); RI BEN HOU PO; Whiteleaf Japanese Magnolia. Isolated compounds: 322, 532, 7517, 7894, 9631, 12497, 12917, 12917, 13373, 13388.
- T4045 *Magnolia officinalis* (Magnoliaceae); HOU PO; Officinal Magnolia. Equivalent plant: *Magnolia biloba*. Used part: bark. TCM Effects: To dry damp and disperse phlegm, precipitate *qi* and eliminate fullness, lower blood pressure. TCM Indications: Amebic dysentery, vomiting and diarrhea, food accumulation and *qi* stagnation, abdominal distention and constipation, phlegm-rheum cough asthma. Isolated compounds: 85, 336, 928, 1348, 1763, 1857, 2412, 2561, 2795, 3194, 3242, 3688, 4029, 4550, 6746, 7513, 7514, 9044, 9631, 9669, 10449, 11519, 12843, 12849, 12850, 13364, 13365, 13366, 13367, 13373, 13374, 13378, 13379, 13380, 13381, 13382, 13383, 13384, 13385, 13386, 13388, 13393, 13395, 13396, 14491, 14827, 15888, 17376, 17458, 17459, 18532, 19183, 19306, 19910, 20556, 20992, 20995, 21074.
- T4046 *Magnolia praecocissima* (Magnoliaceae); ZHOU YE MU LAN; Wrinkleleaf Magnolia\*. Isolated compounds: 394, 7077, 7512, 7720, 12241, 13394, 16154, 16675, 19777, 23006.
- T4047 *Magnolia pyramidata* (Magnoliaceae); JIN ZI TA MU LAN; Pyramidal Magnolia\*. Isolated compounds: 18241, 18242, 18243, 18244, 18245, 18246, 18247, 18248.
- T4048 *Magnolia rostrata* (Magnoliaceae); DA YE HOU PO; Bigleaf Magnolia. Used part: bark. TCM Effects: To warm center and transform damp, move *qi* and disperse accumulation. TCM Indications: Distention fullness and sudden pain in chest and abdomen, food accumulation and *qi* stagnation, vomiting, diarrhea, cough with profuse phlegm. Isolated compounds: 5379, 13373, 13388, 13389.
- T4049 *Magnolia salicifolia* (Magnoliaceae); LIU YE MU LAN; Willowleaf Magnolia\*. Isolated compounds: 1186, 1282, 7751, 13390, 13392, 19121.
- T4050 *Magnolia sieboldii* (Magnoliaceae); TIAN NV MU LAN; Oyama Magnolia. Used part: bud. TCM Effects: To disinhibit urine and disperse edema, moisten lung and relieve cough. TCM Indications: Lung vacuity cough, phlegm containing blood, liquor jaundice accumulation, double tongue, swollen welling abscess. Isolated compounds: 19922, 20569.
- T4051 *Magnolia* spp. (Magnoliaceae). Isolated compounds: 15751.
- T4052 *Magnolia sprengeri* (Magnoliaceae); WU DANG MU LAN; Sprenger Magnolia. Used part: flower bud. TCM Effects: See *Magnolia liliflora*. TCM Indications: See *Magnolia liliflora*. Isolated compounds: 2858, 13373, 13393.
- T4053 *Mahonia acanthifolia* (Berberidaceae); CI YE SHI DA GONG LAO; Acanthus-leaved Mahonia. Isolated compounds: 16439.
- T4054 *Mahonia aquifolium* (Berberidaceae); JIAN YE SHI DA GONG LAO; Oregon-grape. Isolated compounds: 11344, 16439.
- T4055 *Mahonia bealei* (Berberidaceae); SHI DA GONG LAO MU; Leatherleaf Mahonia. Equivalent plant: *Mahonia fortunei*, *Mahonia japonica*. Used part: stem. TCM Effects: To clear heat, dry damp, resolve toxin. TCM Indications: Lung heat cough, jaundice, diarrhea, dysentery, red eyes with gall, sores, eczema, scalds. Isolated compounds: 2303, 11851, 16555.
- T4056 *Mahonia bealei* (Berberidaceae); SHI DA GONG LAO YE; Leatherleaf Mahonia Leaf. Equivalent plant: *Mahonia fortunei*, *Mahonia japonica*. Used part: leaf. TCM Effects: To clear vacuity heat, dry damp, resolve toxin. TCM Indications: Tuberculosis and hemoptysis, steaming bone tidal fever, dizziness and tinnitus, limp aching lumbus and knees, damp-heat jaundice, vaginal discharge, dysentery, wind-heat common cold, red eyes with gall, swollen welling abscess and sores. Isolated compounds: no.
- T4057 *Mahonia bealei* (Berberidaceae); SHI DA GONG LAO ZI; Leatherleaf

- Mahonia Fruit. Equivalent plant: *Mahonia japonica*. Used part: fruit. TCM Effects: To clear vacuity heat, supplement kidney, dry damp. TCM Indications: Steaming bone tidal fever, limp aching lumbus and knees, dizziness and tinnitus, damp-heat diarrhea, vaginal discharge, strangury-turbidity. Isolated compounds: no.
- T4058 *Mahonia bodinieri* (Berberidaceae); XIAO GUO SHI DA GONG LAO; Bodinier Mahonia. Isolated compounds: 2303, 11851, 16555.
- T4059 *Mahonia borealis* (Berberidaceae); PA LI BEI FANG SHI DA GONG LAO; Parry Northern Mahonia. Isolated compounds: 16439.
- T4060 *Mahonia confusa* (Berberidaceae); HU BEI SHI DA GONG LAO; Confused Mahonia. Equivalent plant: *Mahonia gracilipes*. Used part: root and stem. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Damp-heat dysentery, diarrhea, jaundice, red eyes with gall, swollen welling abscess and sores, wind-damp-heat impediment, taxation fever steaming bone, hemoptysis, dizzy head. Isolated compounds: 2303, 11851, 16555.
- T4061 *Mahonia eurybracteata* (Berberidaceae); KUAN BAO SHI DA GONG LAO; Broad-bracteate Mahonia. Isolated compounds: 2303, 11851, 16555.
- T4062 *Mahonia fortunei* (Berberidaceae); XI YE GONG LAO MU; Chinese Mahonia. Used part: stem. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 2300, 2303, 11851, 13374, 16439, 16555.
- T4063 *Mahonia fortunei* (Berberidaceae); XI YE GONG LAO YE; Chinese Mahonia Leaf. Used part: leaf. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 13374, 16555.
- T4064 *Mahonia gracilipes* (Berberidaceae); XI BING SHI DA GONG LAO; Subtriplinerved Mahonia. Used part: root and stem. TCM Effects: See *Mahonia confusa*. TCM Indications: See *Mahonia confusa*. Isolated compounds: 2303, 11851, 16555.
- T4065 *Mahonia griffithii* (Berberidaceae); GE LI FEI SI SHI DA GONG LAO; Griffith Mahonia. Isolated compounds: 16439.
- T4066 *Mahonia japonica* (Berberidaceae); HUA NAN GONG LAO MU; Japanese Mahonia. Used part: stem. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 2300, 2303, 3934, 4032, 11736, 11851, 13374, 16555.
- T4067 *Mahonia japonica* (Berberidaceae); HUA NAN GONG LAO YE; Japanese Mahonia Leaf. Used part: leaf. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 3934, 4032, 11736, 13374, 16555.
- T4068 *Mahonia japonica* (Berberidaceae); HUA NAN GONG LAO ZI; Japanese Mahonia Fruit. Used part: fruit. TCM Effects: See *Mahonia bealei*. TCM Indications: See *Mahonia bealei*. Isolated compounds: 11736.
- T4069 *Mahonia leschenaultii* (Berberidaceae); LAI SHI NA TE SHI DA GONG LAO; Leschenault Mahonia. Isolated compounds: 16439.
- T4070 *Mahonia manipurensis* (Berberidaceae); MAN NI PU ER SHI DA GONG LAO; Manipur Mahonia. Isolated compounds: 16439.
- T4071 *Mahonia repens* (Berberidaceae); PU FU SHI DA GONG LAO; Creeping Mahonia. Isolated compounds: 15881, 15885, 16439, 21270.
- T4072 *Mahonia shenii* (Berberidaceae); CHENG KOU SHI DA GONG LAO; Chengkou Mahonia. Used part: root and stem. TCM Effects: To clear heat, dry damp, resolve toxin. TCM Indications: Damp-heat dysentery, diarrhea, jaundice (icterus, ICT), red eyes with gall, burns and scalds. Isolated compounds: 2303, 11851, 16555.
- T4073 *Mahonia sikkimensis* (Berberidaceae); XI JIN SHI DA GONG LAO; Sikkim Mahonia. Isolated compounds: 16439.
- T4074 *Mahonia simonsii* (Berberidaceae); XI MENG SI SHI DA GONG LAO; Simons Mahonia. Isolated compounds: 16439.
- T4075 *Mahonia* spp. (Berberidaceae). Isolated compounds: 16439, 16555.
- T4076 *Mahonia veitchiorum* (Berberidaceae); CHUAN DIAN SHI DA GONG LAO; Veitch Mahonia. Isolated compounds: 2303, 11851, 16555.
- T4077 *Malbranchea aurantiaca* (Myxotrichaceae). Isolated compounds: 10564, 16805.
- T4078 *Malina elemi*. Isolated compounds: 16040, 16041.
- T4079 *Mallotus anomalus* (Euphorbiaceae); XIU MAO YE TONG; Anomalus Mallotu. Isolated compounds: 11227.
- T4080 *Mallotus apelta* (Euphorbiaceae); BAI BEI YE; Whitebackleaf Mallotus. Used part: leaf. TCM Effects: To clear heat, resolve toxin, dispel damp, stanch bleeding. TCM Indications: Phlegmon, suppurative tympanitis, goose-mouth sore, eczema, knocks and falls, bleeding due to external injury. Isolated compounds: 5592, 5593, 5598, 10049, 10051, 10810, 10811.  
*Mallotus chrysocarpus* = *Mallotus repandus* var. *chrysocarpus*
- T4081 *Mallotus furetianus* (Euphorbiaceae). Isolated compounds: 13424, 13425.
- T4082 *Mallotus japonicus* (Euphorbiaceae); YE WU TONG; Japanese Mallotus. Used part: bark. TCM Effects: To clear heat and resolve toxin, promote contraction and stanch bleeding. TCM Indications: Gastric ulcer, duodenal ulcer, hepatitis, hematuria, vaginal discharge, sores, bleeding due to external injury. Isolated compounds: 2312, 2810, 2811, 6923, 8311, 11295, 11521, 11522, 13426, 13427, 13430, 13431, 13432, 13438, 18203, 19087.
- T4083 *Mallotus philippinensis* (Euphorbiaceae); CU KANG CHAI; Philippine Mallotus\*. Used part: pericarpial glandular hairs. TCM Effects: To kill worms and relieve diarrhea. TCM Indications: Taeniasis, ascariasis, oxyuria disease. Isolated compounds: 13433, 13434.
- T4084 *Mallotus philippinensis* (Euphorbiaceae); LV SONG QIU MAO; Kamalatre. Used part: pericarpial glandular hairs. TCM Effects: To kill worms and relieve diarrhea. TCM Indications: Taeniasis, ascariasis, oxyuria disease. Isolated compounds: 2312, 6111, 10682, 11685, 13435, 13436, 13437, 17174, 18940.  
*Mallotus repandus* = *Mallotus repandus* var. *chrysocarpus*
- T4085 *Mallotus repandus* var. *chrysocarpus* [Syn. *Mallotus chrysocarpus*; *Mallotus repandus*] (Euphorbiaceae); SHI YAN FENG; Stone Mallotus\*. Used part: root, stem, leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood and free network vessels, resolve toxin and disperse swelling, expel worms and relieve itch. TCM Indications: Wind-damp impediment, pain in lumbus and legs, deviated eyes and mouth, knocks and falls, swollen welling abscess and sores, taeniasis, eczema, intractable lichen, snake or dog bite. Isolated compounds: 18624, 18625.
- T4086 *Malus asiatica* (Rosaceae); LIN QIN; Chinese Pearleaf Crabapple.



- Used part: fruit. TCM Effects: To precipitate *qi* and loosen chest, engender liquid and allay thirst, harmonize center and relieve pain. TCM Indications: Diabetes mellitus, phlegm-rheum and food retention, glomus and congestion in chest and diaphragm, cholera, vomiting diarrhea with abdominal pain, dysentery. Isolated compounds: 7852.
- T4087 *Malus domestica* (Rosaceae); PING GUO HAI TANG; Domestic Apple\*. Isolated compounds: 7996.
- T4088 *Malus pumila* (Rosaceae); PING GUO; Apple. Used part: fruit. TCM Effects: To boost stomach, engender liquid, eliminate vexation, arouse liquor. TCM Indications: Scant fluid and thirst, spleen vacuity diarrhea, food retention and abdominal distention, resolve liquor toxin. Isolated compounds: 11031, 15814, 17169, 17174, 18281.
- T4089 *Malus* sp. (Rosaceae). Isolated compounds: 3214, 7729, 13126, 15477, 17170.
- T4090 *Malus* spp. (Rosaceae). Isolated compounds: 17869.
- T4091 *Malva sylvestris* (Malvaceae); OU JIN KUI; High Mallow. Used part: flower, leaf and stem. TCM Effects: To disinhibit urine and free stool, clear heat and resolve toxin. TCM Indications: Urinary and fecal stoppage, vaginal discharge, scrofula, swelling pain in throat. Isolated compounds: 13460.
- T4092 *Mammea africana* (Clusiaceae); FEI ZHOU HUANG GUO MU; African Mammey Apple. Isolated compounds: 6181, 13464, 13467, 13473, 13809.
- T4093 *Mammea americana* (Clusiaceae); MEI ZHOU MAN MI PING GUO; Mammee Apple. Isolated compounds: 6181, 6183, 13467, 13468, 13469, 20490.
- T4094 *Mammea harmandii* (Clusiaceae). Isolated compounds: 13464, 13467, 13468, 13469, 13470, 13472.
- T4095 *Mammea longifolia* (Clusiaceae); CHANG YE MAN MI PING GUO; Longleaf Mammey\*. Isolated compounds: 20489, 20490.
- T4096 *Mammea* sp. (Clusiaceae). Isolated compounds: 15715.
- T4097 *Mammillaria microcarpa* (Cactaceae); XIAO GUO YIN MAO QIU; Fishhook Cactus. Isolated compounds: 14796.
- T4098 *Mandevilla pentlandiana* (Apocynaceae); PENG TE MAN DE MU; Pentland Mandevilla\*. Isolated compounds: 15497.
- T4099 *Mangifera indica* (Anacardiaceae); MANG GUO; Mango. Equivalent plant: *Mangifera persiciformis*. Used part: fruit. TCM Effects: To boost stomach, engender liquid, check vomiting, relieve cough. TCM Indications: Thirst, vomiting, reduced food intake, cough. Isolated compounds: 1024, 1025, 1824, 3214, 5510, 5799, 6757, 6966, 7802, 7852, 7853, 7951, 8095, 9387, 11525, 13481, 13483, 16317, 16381, 16425, 19041, 22520.
- T4100 *Mangifera indica* (Anacardiaceae); MANG GUO HE; Mango Seed. Used part: seed. TCM Effects: To fortify stomach and disperse food, move *qi* and transform phlegm. TCM Indications: Mounting *qi*, food stagnation, cough, testitis. Isolated compounds: 6431, 6432, 9717, 14929, 14930.
- T4101 *Mangifera indica* (Anacardiaceae); MANG GUO SHU PI; Mango Bark. Used part: bark. TCM Effects: To clear summerheat heat, stanch bleeding, resolve sore toxin. TCM Indications: Summerheat damage, generalized fever and aversion to cold. Isolated compounds: 1025, 4469, 4618, 7338, 9613, 10358, 10359, 11525, 13100, 13482, 13483, 14576, 14594, 14595, 16064.
- T4102 *Mangifera indica* (Anacardiaceae); MANG GUO YE; Mango Leaf. Used part: leaf. TCM Effects: To allay thirst, transform stagnation, relieve itch. TCM Indications: *Gan* accumulation, diabetes mellitus, eczema titillation, wart. Isolated compounds: 9717, 13481.
- T4103 *Mangifera persiciformis* (Anacardiaceae); BIAN TAO; Peachform Mango. Used part: fruit. TCM Effects: See *Mangifera indica*. TCM Indications: See *Mangifera indica*. Isolated compounds: 7951, 13481, 18317, 20711.
- T4104 *Manihot esculenta* (Euphorbiaceae); MU SHU DI SHANG BU FEN; Cassave Aerial Parts. Used part: leaf or root. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Toxin swelling of sores, scab and lichen. Isolated compounds: 1107, 1113, 7025, 7366, 7367, 13097, 20369, 20711, 20712.
- T4105 *Manilkara indica* (Sapotaceae); IN DU TIE XIAN ZI; Indian Balata\*. Isolated compounds: 11198.
- T4106 *Manis pentadactyla* (Manidae); CHUAN SHAN JIA; Pangolin. Used part: scale. TCM Effects: To quicken blood and dissipate stasis, free menstruation and milk, disperse welling abscess. TCM Indications: Amenorrhea due to blood stasis, concretion and conglomeration, wind-damp impediment pain, galactostasis, swollen welling abscess, scrofula. Isolated compounds: 4535.
- T4107 *Mansonia gagei* (Sterculiaceae); MAN SUO NI YA XIN CAI; Mansonia Heartwood. Isolated compounds: 13519, 13520, 13521.
- T4108 *Marchantia paleacea* var. *diptera* (Marchantiaceae); ER YI TUO BAO DI QIAN; Twowing Palea Liverwort\*. Isolated compounds: 16540.
- T4109 *Marchantia polymorpha* (Marchantiaceae); DI SUO LUO. Used part: lichen. TCM Effects: To clear heat and disinhibit damp, resolve toxin and close sores. TCM Indications: Damp-heat jaundice, swelling pain of welling abscess and sore, poisonous snake bite, burns and scalds, fracture, knife wound. Isolated compounds: 9426, 9816, 10034, 11528, 11681, 13550, 13551, 13552, 13553, 13554, 13555, 13556, 13557, 13558, 16300, 16984, 17811, 18839, 21352, 21354, 21356, 22171.
- T4110 *Marchantia* sp. (Marchantiaceae). Isolated compounds: 13084.
- T4111 *Marrubium peregrinum* (Lamiaceae); YANG OU XIA ZHI CAO; Peregrine Hoarhound. Isolated compounds: 21202.
- T4112 *Marrubium supinum* [Syn. *Lagopsis supina*] (Lamiaceae); BAI HUA XIA ZHI CAO; Whiteflower Lagopsis. Isolated compounds: 17812.
- T4113 *Marrubium velutinum* (Lamiaceae); DUAN RONG MAO OU XIA ZHI CAO; Velutinous Hoarhound\*. Isolated compounds: 3607, 22370, 22371.
- T4114 *Marrubium vulgare* (Lamiaceae); OU XIA ZHI CAO; Common Hoarhound. Isolated compounds: 580, 1663, 2134, 2325, 2912, 7925, 13573, 13574, 17812, 17813.
- T4115 *Marsdenia condurango* (Asclepiadaceae); NAN MEI NIU NAI CAI; Condurango. Isolated compounds: 3964, 3965.
- T4116 *Marsdenia globifera* (Asclepiadaceae); QIU HUA NIU NAI CAI; Globose Condorvine. Isolated compounds: 1106, 1110, 1111, 1121.
- T4117 *Marsdenia koi* (Asclepiadaceae); DA YE NIU NAI CAI; Ko Condorvine. Isolated compounds: 13575, 13576.
- T4118 *Marsdenia oreophila* (Asclepiadaceae); HUI ZHU NIU NAI CAI; Beakstyle Condorvine. Used part: rhizome. TCM Effects: To stanch bleeding and dissipate stasis, free network vessels and relieve pain. TCM Indications: Bleeding due to external injury, fracture, lumbar and

- back pain. Isolated compounds: 13577.
- T4119 *Marsdenia roylei* (Asclepiadaceae); ROU LEI NIU NAI CAI; Roylei Condorvine\*. Isolated compounds: 5129, 5131, 5242, 7468, 13578, 16032, 16033.
- T4120 *Marsdenia tenacissima* (Asclepiadaceae); TONG GUANG TENG; Tenacious Condorvine. Used part: stem, root or leaf. TCM Effects: To clear heat and resolve toxin, relieve cough and calm asthma, disinhibit damp and free milk, anticancer. TCM Indications: swelling pain in throat, lung heat cough asthma, damp-heat jaundice, inhibited urination [=dysuria], breast milk stoppage, sore and boil, carcinoma. Isolated compounds: 20930, 20931.
- T4121 *Marsilea quadrifolia* (Marsileaceae); PING; Water-clover. Used part: whole herb. TCM Effects: To disinhibit water and disperse edema, clear heat and resolve toxin, stanch bleeding, eliminate vexation and quiet spirit. TCM Indications: Edema, heat strangury, inhibited urination [=dysuria], jaundice, blood ejection, spontaneous external bleeding, hematuria, flooding spotting and vaginal discharge, profuse menstruation, sleepless and vexation, diabetes mellitus, common cold, summer unacclimation in child, swollen welling abscess and sore toxin, scrofula, mastitis, swelling pain in throat, acute conjunctivitis, poisonous snake bites. Isolated compounds: 9638.
- T4122 *Matayba arborescens*. Isolated compounds: 3829.
- T4123 *Matricaria aurea* (Asteraceae); JIN SE MU JU; Aureate Mayweed\*. Isolated compounds: 5903, 16837, 16838, 16840.
- T4124 *Matricaria chamomilla* [Syn. *Matricaria recutita*] (Asteraceae); MU JU<sup>(3)</sup>; Mayweed. Used part: flower or whole herb. TCM Effects: To clear heat and resolve toxin, relieve cough and calm asthma, dispel wind-damp. TCM Indications: Common cold with fever, swelling pain in throat, lung heat cough asthma, heat impediment swelling and pain, swelling of sores. Isolated compounds: 1502, 2044, 2071, 2414, 2416, 2807, 3300, 3464, 3622, 7729, 9038, 9496, 13604, 13605, 16728, 21176, 22035.
- Matricaria recutita* = *Matricaria chamomilla*
- T4125 *Matricaria suffruticosa* (Asteraceae); BAN GUAN MU MU JU; Semi-frutex Mayweed\*. Isolated compounds: 5236.
- T4126 *Matteuccia orientalis* (Onocleaceae); DONG FANG JIA GUO JUE; Oriental Ostrich Fern. Used part: rhizome or stem-leaf. TCM Effects: To dispel wind, stanch bleeding. TCM Indications: Wind-damp impediment pain, bleeding due to external injury. Isolated compounds: 13609, 13611, 13993.
- T4127 *Matteuccia struthiopteris* (Onocleaceae); XIAO YE GUAN ZHONG; Matteuccia Frond. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, kill worms, stanch bleeding. TCM Indications: Febrile diseases macular eruption, parotitis, damp-heat sore toxin, abdominal pain due to ascariasis, oxyuria disease, red dysentery and bloody stool, hematuria, blood ejection, spontaneous external bleeding, flooding and spotting [=metrorrhagia and metrostaxis]. Isolated compounds: 1599, 2909, 3551, 6678, 6679, 8077, 8668, 17700, 18162, 19983.
- T4128 *Maytenus buchananii* (Celastraceae); BU CHANG NAN MEI DENG MU; Buchanan Mayten. Isolated compounds: 13619, 13620, 13621, 13622.
- T4129 *Maytenus canariensis* (Celastraceae); JIA NA LI MEI DENG MU; Canari Mayten\*<sup>[1]</sup> Isolated compounds: 16359, 16429, 17862, 21397.
- T4130 *Maytenus chuchuhuasca* (Celastraceae); QIU SHI MEI DENG MU; Chuchuhuasc Mayten\*. TCM Effects: Anticarcinoma. TCM Indications: Skin cancer. Isolated compounds: 5655, 5656, 5744, 5745, 10267, 11786, 11787, 11788, 16411, 22811, 22812, 22813.
- T4131 *Maytenus confertiflorus* (Celastraceae); MI HUA MEI DENG MU; Crown-flowered Mayten. Used part: leaf. TCM Effects: To dispel stasis and relieve pain, resolve toxin and disperse swelling, anticancer. TCM Indications: Knocks and falls, lumbago, carcinoma. Isolated compounds: 12952, 13620, 13621.
- T4132 *Maytenus guangsiensis* (Celastraceae); GUANG XI MEI DENG MU; Guangxi Mayten\*. Isolated compounds: 13621.
- T4133 *Maytenus heterophylla* (Celastraceae); YI YE MEI DENG MU; Heteroleaf Mayten\*. Isolated compounds: 9470, 10565.
- T4134 *Maytenus hookeri* (Celastraceae); YUN NAN MEI DENG MU; Yunnan Mayten. Used part: leaf. TCM Effects: To transform stasis and disperse concretion, anticancer. TCM Indications: carcinoma. Isolated compounds: 13620, 13621.
- T4135 *Maytenus ilicifolia* (Celastraceae); DONG QING YE MEI DENG MU; Ilcis-leaf Mayten\*. Isolated compounds: 16429.
- T4136 *Maytenus krukovii* (Celastraceae); KE SHI MEI DENG MU; Krukov Mayten\*. Isolated compounds: 3327, 15789.
- T4137 *Maytenus mossambicensis* (Celastraceae); MO SANG BI KE MEI DENG MU; Mozambique Mayten\*. Isolated compounds: 3356.
- T4138 *Maytenus ovatus* (Celastraceae); LUAN YE MEI DENG MU; Ovateleaf Mayten\*. Isolated compounds: 13619, 13621.
- T4139 *Maytenus serrata* (Celastraceae); CHI YE MEI DENG MU; Serrate-leaved Mayten. Isolated compounds: 13618, 13619, 13621.
- T4140 *Maytenus* sp. (Celastraceae). Isolated compounds: 21397.
- T4141 *Meconopsis betonicifolia* (Papaveraceae); HUO XIANG YE LV RONG HAO; Betonyleaf Meconopsis. Isolated compounds: 7002, 16624, 16626, 16627.
- T4142 *Meconopsis cambrica* (Papaveraceae); WEI ER SHI LV RONG HAO; Welsh Poppy. Isolated compounds: 7980, 8524, 13630, 13631.
- T4143 *Meconopsis horridula* (Papaveraceae); DUO CI LV RONG HAO; Spiny Meconopsis. Used part: whole herb. TCM Effects: To quicken blood and transform stasis, clear heat and relieve pain. TCM Indications: Knocks and falls, fracture, pain in chest and back, wind-heat headache, swelling pain in joints. Isolated compounds: 1096, 16627, 16628.
- T4144 *Meconopsis nepaulensis* (Papaveraceae); NI BO ER LV RONG HAO; Nepal Meconopsis. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Lung heat cough, damp-heat jaundice, damp-heat edema, gastroenteritis, headache, dysmenorrhea, leukorrhea. Isolated compounds: 14590, 16627, 16628.
- T4145 *Meconopsis punicea* (Papaveraceae); HONG HUA LV RONG HAO; Redflower Meconopsis. Used part: whole herb with flower. TCM Effects: To clear heat and resolve toxin, disinhibit damp, relieve pain. TCM Indications: Ardent fever, tuberculosis, pneumonia, hepatitis, dysmenorrhea, leukorrhea, damp-heat edema, headache, hypertension. Isolated compounds: 866, 13630, 13994.
- T4146 *Meconopsis* spp. (Papaveraceae). Isolated compounds: 16627, 16628.
- T4147 *Medicago falcata* (Fabaceae); YE MU XU; Sickle Alfalfa. Used part: whole herb. TCM Effects: To fortify spleen and supplement vacuity,

- disinhibit urine and abate jaundice, soothe sinews and quicken network vessels. TCM Indications: Spleen vacuity and abdominal distention, indigestion, edema, jaundice, wind-damp impediment pain. Isolated compounds: 2017, 7821.
- T4148 *Medicago sativa* (Fabaceae); MU XU; Alfalfa. Used part: whole herb. TCM Effects: To clear heat and cool blood, disinhibit damp and abate jaundice. TCM Indications: Febrile diseases with vexation and fullness, jaundice, enteritis, dysentery, edema, urethral stone, hematochezia from hemorrhoids. Isolated compounds: 1673, 3059, 3209, 3774, 4190, 4604, 5010, 5440, 7775, 7883, 8050, 8762, 8763, 12843, 12849, 13018, 13456, 13635, 14469, 14619, 15146, 16118, 17024, 19395, 20168, 20254, 20444, 21589, 21662.
- T4149 *Medicago sativa* (Fabaceae); MU XU GEN; Alfalfa Root. Used part: root. TCM Effects: To clear heat and disinhibit damp, free strangury and expel stone. TCM Indications: Febrile diseases with vexation and fullness, jaundice, urethral stone. Isolated compounds: 1040.
- T4150 *Medicago* sp. (Fabaceae). Isolated compounds: 13638.
- T4151 *Medicago* spp. (Fabaceae). Isolated compounds: 12908.
- T4152 *Medinilla magnifica* (Melastomataceae); HONG WEI SUAN JIAO GAN; Magnific Medinilla\*. Isolated compounds: 15641, 15642.
- T4153 *Melaleuca alternifolia* (Myrtaceae); HU SHENG YE BAI QIAN CENG; Alternateleaf Melaleuca\*. Isolated compounds: 20992.
- T4154 *Melaleuca leucadendra* (Myrtaceae); BAI QIAN CENG; Cajeput-tree. Used part: leaf. TCM Effects: To dispel wind and resolve exterior, disinhibit damp and relieve itch. TCM Indications: Common cold with fever, wind-damp bone pain, abdominal pain and diarrhea, wind papules, eczema. Isolated compounds: 7481.
- T4155 *Melia azadirachta* (Meliaceae); Chinaberry-tree. Isolated compounds: 13661, 15601, 15602, 15604.
- T4156 *Melia azedarach* (Meliaceae); KU LIAN PI; Chinaberry-tree Bark. Equivalent plant: *Melia toosendan*. Used part: dried stem or root cortex. TCM Effects: To expel worms and treat lichen. TCM Indications: Ascariasis, oxyuria disease, abdominal pain due to worm accumulation, scab and lichen with itching. Isolated compounds: 2050, 2054, 2055, 3710, 5194, 7945, 8249, 12328, 12329, 12330, 12952, 13660, 13661, 13664, 13665, 13666, 13667, 13668, 13669, 13670, 13671, 14544, 15603, 15606, 15610, 15611, 19177, 20966, 20967, 21448, 21977.
- T4157 *Melia azedarach* (Meliaceae); KU LIAN SHI; Chinaberry-tree Fruit. Used part: fruit. TCM Effects: To move *qi* and relieve pain, kill worms. TCM Indications: Pain in stomach duct and rib-side, mounting pain, abdominal pain due to worm accumulation, tinea capitis, frostbite (kibe). Isolated compounds: 4752, 4753, 4754, 4790, 15605, 21554.
- T4158 *Melia azedarach* (Meliaceae); KU LIAN YE; Chinaberry-tree Leaf\*. Used part: leaf. TCM Effects: To clear heat and dry damp, kill worms and relieve itch, move *qi* and relieve pain. TCM Indications: Eczema titillation, sore lichen and scab *lai*, snake or insect bites, trichomonal vaginitis, mounting *qi* (hernia), painful swelling from knocks and falls. Isolated compounds: 21449, 21450.
- T4159 *Melia azedarach* (Meliaceae); LIAN HUA; Chinaberry-tree Flower. Used part: flower. TCM Effects: To clear heat and dispel damp, kill worms and relieve itch. TCM Indications: Prickly heat. Isolated compounds: 13675.
- T4160 *Melia azedarach* var. *japonica* (Meliaceae); RI BEN KU LIAN; Japanese Chinaberry-tree. Isolated compounds: 3308, 4791, 13669, 19705.
- T4161 *Melia indica* (Meliaceae); YIN JIAN; Indica Melia\*. Isolated compounds: 15601, 15602.
- T4162 *Melia toosendan* (Meliaceae); CHUAN LIAN PI; Szechwan Chinaberry Bark. Used part: dried stem or root cortex. TCM Effects: See *Melia azedarach*. TCM Indications: See *Melia azedarach*. Isolated compounds: 4755, 4756, 11743, 13664, 13665, 13672, 14813, 15612, 20206, 21447, 21448, 21554, 21555, 21556.
- T4163 *Melia toosendan* (Meliaceae); CHUAN LIAN ZI; Szechwan Chinaberry Fruit. Used part: fruit. TCM Effects: To soothe liver, move *qi*, relieve pain, expel worms. TCM Indications: Chest and rib-side pain, distending pain in stomach duct, mounting *qi*, abdominal pain due to worm accumulation. Isolated compounds: 527, 14764, 15606, 15607, 15608, 15609, 21448.
- T4164 *Melicope coodeana* (Rutaceae); RU NI WENG DAO MI ZHU YU; Reunion-Island Melicope\*. Isolated compounds: 6218, 16863, 21911.
- T4165 *Melicope ptelefolia* (Rutaceae). Isolated compounds: 13676, 13677.
- T4166 *Melicope semecarpifolia* (Rutaceae); SI ROU TUO GUO YE MI ZHU YU. Isolated compounds: 2047, 3974, 3975, 6289, 6404, 6405, 6642, 6708, 8824, 9226, 11605, 12254, 13673, 13674, 13685, 14072, 14254, 19690, 20002.
- T4167 *Melicope* sp. (Rutaceae). Isolated compounds: 12254.
- T4168 *Melicope* spp. (Rutaceae). Isolated compounds: 20978.
- T4169 *Melicope triphylla* (Rutaceae); SAN YE MI ZHU YU; Threeleaf Melicope. Isolated compounds: 16867.
- T4170 *Melilotus albus* (Fabaceae); BAI XIANG CAO MU XI; White Sweetclover. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, harmonize stomach and transform damp. TCM Indications: Summerheat-heat and oppression in chest, headache, bad breath, malaria, dysentery, strangury, skin sores. Isolated compounds: 5440.
- T4171 *Melilotus messanensis* (Fabaceae); XI XI LI CAO MU XI; Messania Sweetclover\*. Isolated compounds: 13682, 13683, 13684.
- T4172 *Melilotus suaveolens* (Fabaceae); PI HAN CAO; Daghestan Sweetclover. Used part: whole herb. TCM Effects: To clear summerheat and transform damp, fortify stomach and harmonize center. TCM Indications: Summerheat-damp and oppression in chest, distended head and headache, dysentery, malaria, strangury syndrome, vaginal discharge, mouth sore, bad breath, sores, damp sore, scab and lichen, scrofula. Isolated compounds: 663, 664, 3383, 4134, 4139, 4141, 4142, 5440, 5665, 13678, 22195.
- T4173 *Melilotus suaveolens* (Fabaceae); PI HAN CAO GEN; Daghestan Sweetclover Root. Used part: root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Scrofula. Isolated compounds: 4134.
- T4174 *Melissa officinalis* (Lamiaceae); XIANG FENG HUA; Bee Balm. Isolated compounds: 3767, 12420.
- T4175 *Melittis melissophyllum* (Lamiaceae); OU ZHOU MI FENG HUA; Balmleaf Metittis. Isolated compounds: 4626.
- T4176 *Melodinus balansae* (Apocynaceae); BEI SHI SHAN CHENG; Balansa Melodinus\*. Isolated compounds: 784.
- T4177 *Melodinus celastroides* (Apocynaceae); NAN SHE TENG ZHUANG

- SHAN CHENG; *Celastrus Melodinus*\*. Isolated compounds: 22499.
- T4178 *Melodinus hemsleyanus* (Apocynaceae); CHUAN SHAN CHENG; Hemsley Melodinus. Used part: root or fruit. TCM Effects: To fortify spleen, supplement blood, clear heat (root), free menstruation and promote lactation, stanch bleeding, resolve toxin (fruit). TCM Indications: Spleen-stomach vacuity, anemia and scant milk, mouth sore, tongue sores (root), menstrual disorder, galactostasis, bleeding from hemorrhoids, swelling toxin of welling abscess and sore, snake bite (fruit). Isolated compounds: 5099, 10093, 10824.
- T4179 *Melodinus tenuicaudatus* (Apocynaceae); BO YE SHAN CHENG; Thin-leaf Melodinus. Isolated compounds: 20933.
- T4180 *Melodorum fruticosum* (Annonaceae). Isolated compounds: 463, 2257, 2261, 2262, 13712.  
*Melodorum glaucescens* = *Fissistigma glaucescens*  
*Melodorum oldhamii* = *Fissistigma oldhamii*  
*Meniscium simplex* = *Pronephrium simplex*
- T4181 *Menispermum canadense* (Menispermaceae); MEI GUO BIAN FU GE; Canada Moonseed. Isolated compounds: 4685.
- T4182 *Menispermum dauricum* (Menispermaceae); BIAN FU GE; Asiatic Moonseed. Used part: rattan. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Lumbago, scrofula, swelling pain in throat, diarrhea and dysentery, swelling pain from hemorrhoids. Isolated compounds: 603, 604, 2343, 2344, 2345, 4846, 6512, 6886, 19955.
- T4183 *Menispermum dauricum* (Menispermaceae); BIAN FU GE GEN; Asiatic Moonseed Root. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, disinhibit damp. TCM Indications: Swelling pain in throat, lung heat cough, epidemic parotitis, diarrhea, jaundice, wind-damp impediment pain, swelling pain from hemorrhoids, snake or insect bites. Isolated compounds: 602, 603, 604, 3494, 4100, 4101, 4685, 4686, 4687, 4688, 4689, 4690, 4691, 4692, 4693, 4847, 5077, 5581, 6260, 6268, 6574, 9825, 10428, 13716, 13717, 14251, 15802, 15803, 17968, 19187, 19955, 20324, 21206, 21255, 22159.  
*Mentha arvensis* = *Mentha haplocalyx*  
*Mentha arvensis* var. *haplocalyx* = *Mentha haplocalyx*  
*Mentha cablin* = *Pogostemon cablin*  
*Mentha canadaensis* = *Mentha haplocalyx*
- T4184 *Mentha haplocalyx* [Syn. *Mentha canadaensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*] (Lamiaceae); BO HE; Wild Mint. Used part: dried aerial parts. TCM Effects: To dissipate wind-heat, clear head and eyes, disinhibit pharynx and larynx, outthrust papules, resolve depression. TCM Indications: Chronic urticaria, infection of upper respiratory tract, sarcoma, wind-heat exterior syndrome, headache and red eyes, swelling pain in throat, non-eruption of measles, dormant papules with pruritus, liver depression and rib-side pain, abdominal distention. Isolated compounds: 139, 2444, 2445, 2887, 3045, 9515, 11533, 12420, 12843, 13774, 13775, 13776, 13779, 17376.
- T4185 *Mentha longifolia* (Lamiaceae); OU BO HE; Horse Mint. Isolated compounds: 7278, 9458, 12978, 12979, 12984.
- T4186 *Mentha piperita* (Lamiaceae); LA BO HE; Pepper Mint. Used part: leaf. TCM Effects: To course wind and dissipate heat, resolve toxin and dissipate binds. TCM Indications: Wind-heat common cold, headache, red eyes, sore pharynx, epidemic parotitis. Isolated compounds: 12420, 13779, 22768.
- T4187 *Mentha pulegium* (Lamiaceae); CHUN E BO HE; Pennyroyal Mint. Isolated compounds: 18190.
- T4188 *Mentha rotundifolia* (Lamiaceae); YU XIANG CAO; Apple Mint. Used part: whole herb. TCM Effects: To dispel wind, resolve toxin, harmonize stomach, moisten skin. TCM Indications: Common cold, eye diseases, stomachache, sore and boil, cracking. Isolated compounds: 3237, 6455, 15413, 15415, 15926, 17457, 18190, 18954, 19309.
- T4189 *Mentha* sp. (Lamiaceae). Isolated compounds: 12843, 13776.
- T4190 *Mentha spicata* (Lamiaceae); LIU LAN XIANG; Spearmint. Used part: whole herb. TCM Effects: To resolve exterior, harmonize center, rectify *qi*. TCM Indications: Common cold, cough, headache, sore pharynx, red eyes, nosebleed(epistaxis), stomachache, abdominal distention, cholera with vomiting and diarrhea, dysmenorrhea, numbness in limbs, painful swelling from knocks and falls, sore and boil, cracking. Isolated compounds: 3237.
- T4191 *Mentha* spp. (Lamiaceae). Isolated compounds: 17454, 18954.
- T4192 *Mentha sylvestris* (Lamiaceae); SEN LIN BO HE; Forest Mint. Isolated compounds: 17457.
- T4193 *Menyanthes* sp. (Gentianaceae). Isolated compounds: 5191.
- T4194 *Menyanthes trifoliata* (Gentianaceae); SHUI CAI; Bogbean. Used part: leaf or whole herb. TCM Effects: To fortify spleen and disperse food, nourish heart and quiet spirit, clear heat and disinhibit urine. TCM Indications: Gastritis, indigestion, palpitation and insomnia, damp-heat jaundice, cholecystitis, edema, inhibited urination, inhibited voidings of reddish urine. Isolated compounds: 2850, 4415, 4416, 5615, 7851, 8291, 8296, 8297, 9088, 12950, 12952, 13773, 19623, 20168.
- T4195 *Menyanthes trifoliata* (Gentianaceae); SHUI CAI GEN; Bogbean Root. Used part: rhizome. TCM Effects: To moisten lung and suppress cough, suppress cough, lower blood pressure. TCM Indications: Cough, edema, wind-damp pain, hypertension. Isolated compounds: 5615, 7851, 8299, 13773.
- T4196 *Mercurialis annua* (Euphorbiaceae); YI NIAN SHENG SHAN DIAN; Annual Mercury. Isolated compounds: 22975.
- T4197 *Merremia dissecta* (Convolvulaceae); SHEN LIE YU HUANG CAO; Deeplobed Merremia\*. Isolated compounds: 13784, 13785, 13786, 13787, 13788.
- T4198 *Merremia quinquefolia* (Convolvulaceae); WU YE YU HUANG CAO; Five-leaf Merremia\*. Isolated compounds: 14487.
- T4199 *Mesembryanthemum anatomicum* (Aizoaceae); MING SONG YE JU; Anatomicum Fig\*. Isolated compounds: 13796, 13797, 13798.
- T4200 *Mesembryanthemum edule* (Aizoaceae); SHI YONG RI ZHONG HUA; Hottentot Fig. Isolated compounds: 2320, 11252.
- T4201 *Mesembryanthemum expansum* (Aizoaceae); KUO ZHANG SONG YE JU; Expansum Fig\*. Isolated compounds: 13796, 13797, 13798.
- T4202 *Mesembryanthemum tortuosum* (Aizoaceae); NIU QU SONG YE JU; Tortuous Fig\*. Isolated compounds: 13796, 13797, 13798.  
*Mesogloea decipiens* = *Nemacystus decipiens*
- T4203 *Mesua ferrea* (Clusiaceae); TIE LI MU; Common Mesua. Used part: bark, flower and seed. TCM Effects: To relieve cough and dispel

- phlegm, resolve toxin and disperse swelling. TCM Indications: Cough with profuse phlegm, swelling of sore welling abscess and boil, bleeding from hemorrhoids, scalds, poisonous snake bite. Isolated compounds: 5642, 5643, 6011, 6018, 6019, 6020, 6021, 6181, 10241, 10507, 13467, 13469, 13470, 13804, 13805, 13806, 13807, 13808, 13809, 13810, 13811.
- T4204 *Mesua racemosa* (Clusiaceae); ZONG ZHUANG TIE LI MU; Racemose Mesua\*. Isolated compounds: 13471, 18514.
- T4205 *Mesua thwaitesii* (Clusiaceae). Isolated compounds: 6181, 13464.
- T4206 *Metaplexis japonica* (Asclepiadaceae); LUO MO; Japanese Metaplexis. Used part: whole herb or root. TCM Effects: To supplement essence and boost *qi*, free milk, resolve toxin. TCM Indications: Vacuity detriment and taxation damage, impotence, emission, vaginal discharge, scant breast milk, erysipelas, scrofula, clove sore, snake or insect bites. Isolated compounds: 2268, 4796, 5384, 8046, 11643, 12880, 13813, 16917, 19361, 22285.
- T4207 *Metaplexis japonica* (Asclepiadaceae); LUO MO ZI; Japanese Metaplexis Seed. Used part: seed. TCM Effects: To supplement kidney and boost essence, engender flesh and stanch bleeding. TCM Indications: Vacuity taxation, impotence, emission, incised wound and bleeding. Isolated compounds: 5527, 16034, 18528, 19375.
- T4208 *Metasequoia glyptostroboides* (Taxodiaceae); SHUI SHAN; Dawn Redwood. Used part: leaf and fruit. TCM Effects: To clear heat and resolve toxin, eliminate inflammation and relieve pain. TCM Indications: Swelling toxin of welling abscess and sore, lichen sore. Isolated compounds: 7751.
- T4209 *Michelia alba* (Magnoliaceae); BAI LAN HUA; Bailan Flower. Used part: flower. TCM Effects: To transform damp, move *qi*, relieve cough. TCM Indications: Oppression in chest and abdomen distention, summerheat stroke, cough, prostatitis, Vaginal discharge. Isolated compounds: 12917, 14827, 14829, 19183.
- T4210 *Michelia champaca* (Magnoliaceae); HUANG MIAN GUI; Champac Michelia. Used part: root. TCM Effects: To dispel wind-damp, disinhibit throat. TCM Indications: Wind-damp impediment pain, swelling pain in throat. Isolated compounds: 12917, 14829, 16675, 16713.
- T4211 *Michelia compressa* var. *formosana* (Magnoliaceae); WU XIN SHI; Formosan Michelia\*. Isolated compounds: 14828, 14829, 14830, 19308.
- T4212 *Michelia doltsopa* (Magnoliaceae); NAN YA HAN XIAO; South Asia Michelia. Isolated compounds: 4939.
- T4213 *Michelia lanuginosa* (Magnoliaceae); CHANG MAO HAN XIAO; Longhairy Michelia\*. Isolated compounds: 16675.
- T4214 *Michelia spaerantha* (Magnoliaceae); MAO GUO HAN XIAO; Hairyfruit Michelia. Isolated compounds: 20149.
- T4215 *Michelia yunnanensis* (Magnoliaceae); YUN NAN HAN XIAO; Yunnan Michelia. Used part: flower. TCM Effects: To clear heat and resolve toxin. TCM Indications: Pharyngolaryngitis, nasitis, conjunctivitis, brain leak. Isolated compounds: 5967, 9797, 16675, 18673.
- T4216 *Miconia* sp. (Malastomataceae). Isolated compounds: 17857.
- T4217 *Microcos paniculata* [Syn. *Grewia microcos*] (Tiliaceae); PO BU YE; Paniculate Microcos. Used part: leaf. TCM Effects: To clear heat and disinhibit damp, fortify stomach and disperse stagnation. TCM Indications: Common cold with fever, jaundice, inappetence, indigestion, distending pain in stomach duct and abdomen, diarrhea, sores, centipede bite. Isolated compounds: 14284.
- T4218 *Microglossa pyrifolia* (Asteraceae); XIAO SHE JU GEN; Pearleaf Microglossa Root. Isolated compounds: 149, 212, 270, 416, 417, 418, 419, 10057, 10813, 14117, 14118, 14119.
- T4219 *Microlepis marginata* (Dennstaedtiaceae); BIAN YUAN LIN GAI JUE; Marginate Microlepis. Used part: tender leaf. TCM Effects: To clear heat and resolve toxin, dispel wind and quicken network vessels. TCM Indications: Swollen sore of welling abscess and boil, wind-damp impediment pain, knocks and falls. Isolated compounds: 468, 469, 7999, 8000, 8001, 13561, 13562, 14838, 18698.
- T4220 *Microlepis strigosa* [Syn. *Trichomanes strigosa*] (Dennstaedtiaceae); CU MAO LIN GAI JUE; Strigose Microlepis. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp. TCM Indications: Enteritis, influenza. Isolated compounds: 18098, 18142, 18150.
- T4221 *Micromelum falcatum* (Rutaceae); XIAO GAN; Falcate Micromelum. Used part: root or leaf. TCM Effects: To quicken blood and move *qi*, dissipate stasis and relieve pain. TCM Indications: Chest impediment, painful swelling from knocks and falls, fracture, sprain, wind-damp impediment pain, throat pain, poisonous snake bites. Isolated compounds: 5709, 5710, 5711, 17824, 22937.
- T4222 *Micromelum hirsutum* (Rutaceae); YIN MAO XIAO YUN MU; Hairy Micromelum\*. Isolated compounds: 7897, 7907, 12489, 14216, 14217, 14840, 14842.
- T4223 *Micromelum integerrimum* (Rutaceae); XIAO YUN MU; Entire Micromelum. Used part: root, bark and leaf. TCM Effects: To course wind and resolve exterior, warm center and move *qi*, dissipate stasis and disperse swelling. TCM Indications: Influenza, common cold with cough, stomachache, wind-damp impediment pain, painful swelling from knocks and falls, fracture. Isolated compounds: 14839, 19542.
- T4224 *Micromelum minutum* (Rutaceae); JI XIAO XIAO YUN XIANG MU; Minima Micromelum\*. Isolated compounds: 5552, 7149, 9998, 10244.
- T4225 *Microsorium punctatum* (Polypodiaceae); XING JUE; Punctated Microsorium\*. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Strangury, inhibited urination, knocks and falls, dysentery. Isolated compounds: 14152, 14281.
- T4226 *Microtoena prainiana* (Lamiaceae); NAN CHUAN GUAN CHUN HUA; Prain Microtoena. Isolated compounds: 874, 1476, 1485, 4225, 7424, 9458, 11350, 12331, 13137, 13151, 14261, 14847, 14848, 14849, 16498, 19542.
- T4227 *Microula sikkimensis* (Boraginaceae); WEI KONG CAO; Sikkim Microula. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, quicken blood. Isolated compounds: 9913, 9914.
- T4228 *Mikania cordata* (Asteraceae); JIA ZE LAN; Heartshape Mikania. Isolated compounds: 14850.
- T4229 *Mikania mendocina* (Asteraceae); TAI PING YANG JIA ZE LAN; Pacific Mikania\*. Isolated compounds: 18293.
- T4230 *Mikania scandens* (Asteraceae); WEI GAN JU; Climbing Hempweed. Isolated compounds: 5678, 14850.
- T4231 *Milingtonia hortensis* (Bignoniaceae); TONG LUO HAN. Used part:

- bark or leaf. TCM Effects: To dispel wind and relieve itch, transform phlegm and relieve cough, expel roundworm. TCM Indications: Wind papule itching, cough and asthma with abundant phlegm, ascariasis. Isolated compounds: 18614, 18615, 18616, 18617.
- T4232 *Miliusa balansae* (Annonaceae). Isolated compounds: 2471, 3623, 14852, 14853, 16498.
- T4233 *Millettia auriculata* (Fabaceae); ER XING JI XUE TENG; Auriculate Millettia\*. Isolated compounds: 2014.
- T4234 *Millettia dielsiana* (Fabaceae); KUN MING JI XUE TENG; Diels Millettia. Used part: rattan. TCM Effects: To supplement blood and stanch bleeding, quicken blood and free network vessels. TCM Indications: Blood vacuity and general weakness, taxation damage and sinew bone pain, menstrual disorder, amenorrhea, postpartum abdominal pain, persistent flow of lochia, wind-damp impediment pain, bleeding, knocks and falls. Isolated compounds: 676, 3004, 10967, 11543, 11696, 14713, 15993, 16804.
- T4235 *Millettia erythrocalyx* (Fabaceae); HONG E JI XUE TENG; Redcalyx Millettia\*. Isolated compounds: 3334, 5221, 6242, 13934, 14361, 14363, 14376, 14855, 14856, 14857, 14858, 16274, 17707, 17713.
- T4236 *Millettia griffoniana* (Fabaceae). Isolated compounds: 9007, 9008, 9009.
- T4237 *Millettia laurentii* (Fabaceae). Isolated compounds: 12567, 12568.
- T4238 *Millettia nitida* (Fabaceae); LIANG YE YAN DOU TENG; Shiningleaf Millettia. Used part: rattan. TCM Effects: To supplement blood and quicken blood, soothe channels and quicken network vessels. TCM Indications: Blood vacuity, postpartum vacuity weakness, dizziness, menstrual disorder, wind-damp impediment pain, numbness in limbs. Isolated compounds: 6918.
- T4239 *Millettia nitida* var. *hirsutissima* (Fabaceae); FENG CHENG JI XUE TENG; Hirsute Millettia. Used part: root and lianoid stem. TCM Effects: To supplement blood and quicken blood, soothe sinews and quicken network vessels. TCM Indications: Blood vacuity and general weakness, menstrual disorder [=menoxenia], wind-damp impediment pain, poliomyelitis, knocks and falls. Isolated compounds: 7884, 9554, 9555, 9556.
- T4240 *Millettia pachycarpa* (Fabaceae); KU TAN ZI; Thickfruit Millettia. Used part: seed or fruit. TCM Effects: To attack toxin and relieve pain, disperse accumulation and kill worms. TCM Indications: Scab and lichen, sore *lai*, sand *qi* abdominal pain, child *gan* accumulation. Isolated compounds: 6496, 10680, 13088, 16489, 16490, 16491, 16492, 16493, 18939.
- T4241 *Millettia pervilleana* (Fabaceae). Isolated compounds: 17004, 17005.
- T4242 *Millettia racemosa* (Fabaceae); ZONG ZHUANG JI XUE TENG; Racemose Millettia\*. Isolated compounds: 15436.
- T4243 *Millettia reticulata* (Fabaceae); JI XUE TENG GEN; Leatherleaf Millettia Root. Used part: root. TCM Effects: To quiet spirit, calm. TCM Indications: Manic agitation schizophrenia. Isolated compounds: 18939.
- T4244 *Millettia stuhlmannii* (Fabaceae); SI TU JI XUE TENG; Stuhlmann Millettia\*. Isolated compounds: 18857.
- T4245 *Millettia thomningii* (Fabaceae). Isolated compounds: 5727, 10466, 14131, 21081, 21336.
- T4246 *Millettia usaramensis* ssp. *usaramensis* (Fabaceae). Isolated compounds: 2148, 4949, 5733, 6971, 8322, 22278, 22279.
- T4247 *Millingtonia hortensis* (Bignoniaceae); ZI MEI SHU; Garden Millingtonia. Used part: bark or leaf. TCM Effects: To dispel wind and relieve itch, resolve toxin and kill worms, suppress cough and transform phlegm. TCM Indications: Eczema, urticaria, ascariasis, cough of phlegm asthma, leptochroa. Isolated compounds: 266, 9564, 19582, 19584.
- T4248 *Mimosa pudica* (Fabaceae); HAN XIU CAO; Sensitive Plant. Used part: whole herb. TCM Effects: To cool blood and resolve toxin, clear heat and disinhibit damp, quiet spirit and calm. TCM Indications: Common cold, infant ardent fever, bronchitis, hepatitis, gastritis, enteritis, conjunctivitis, calculus of urinary system, edema, taxation damage hemoptysis, nosebleed(epistaxis), hematuria, neurasthenia, neurosis, insomnia, toxin swelling of sores, zoster, knocks and falls. Isolated compounds: 14868, 14869, 15708, 22122.
- T4249 *Mimosa* sp. (Fabaceae). Isolated compounds: 6533.
- T4250 *Mimosa tenuiflora* (Fabaceae); XI HUA HAN XIU CAO; Smallflower Mimosa\*. Isolated compounds: 20934, 20935, 20936.
- T4251 *Mimulus aurantiacus* (Scrophulariaceae); JU SE GOU SUAN JIANG; Orange Monkeyflower\*. Isolated compounds: 2007.
- T4252 *Mirabilis jalapa* (Nyctaginaceae); ZI MO LI GEN; Common Four-o'clock Root. Used part: root. TCM Effects: To clear heat and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Heat strangury, white turbidity, edema, red and white vaginal discharge, swelling pain in joints, swelling toxin of welling abscess and sore, mammary welling abscess, knocks and falls. Isolated compounds: 11018, 13860, 14109, 14498, 14879, 14880, 14881, 14882, 22623.
- T4253 *Mirabilis jalapa* (Nyctaginaceae); ZI MO LI YE; Common Four-o'clock Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, dispel wind and percolate damp, quicken blood. TCM Indications: Welling abscess, boil, scab sore, lichen, wound. Isolated compounds: 21662.
- T4254 *Miscanthus sinensis* (Poaceae); MANG JING; Chinese Silvergrass. Used part: stem. TCM Effects: To dissipate blood, disinhibit urine, resolve heat toxin. TCM Indications: Inhibited urination, animal and insect bites. Isolated compounds: 14884, 18003, 21589.
- T4255 *Mitragyna africana* (Rubiaceae); FEI ZHOU MAO ZHU MU; African Mitragyna\*. Isolated compounds: 14108.
- T4256 *Mitragyna inermis* (Rubiaceae); WU CI MAO ZHU MU; Spineless Mitragyna\*. Isolated compounds: 11035, 11036, 18826.
- T4257 *Mitragyna macrophylla* (Rubiaceae); DA YE MAO ZHU MU; Abura Mitragyna. Isolated compounds: 14889.
- T4258 *Mitragyna speciosa* (Rubiaceae); MEI LI MAO ZHU MU; Beautiful Mitragyna\*. Isolated compounds: 10528, 14886, 16735, 20138, 20139.
- T4259 *Mnium cuspidatum* (Mniaceae); SHUI MU CAO; Cuspidate Mnium Herb. Used part: plant body. TCM Effects: To cool blood and stanch bleeding. TCM Indications: Nosebleed(epistaxis), blood ejection, hematochezia, flooding and spotting. Isolated compounds: 19331. *Moghania philippinensis* = *Flemingia philippinensis*
- T4260 *Moghania philippinensis* (Fabaceae); FEI LV BIN QIAN JIN BA; Philippine Flemingia. Used part: root. TCM Effects: To dispel wind

and eliminate damp, strengthen sinews and bones, quicken blood and resolve toxin. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, wilting-weakness in limbs, knocks and falls, swelling pain in throat. Isolated compounds: 6305, 21098, 21717, 21718, 21796.

*Mollugo lotoides* = *Glinus lotoides*

- T4261 *Mollugo pentaphylla* (Aizoaceae); SU MI CAO; Fiveleaf Carpetweed. Used part: whole herb. TCM Effects: To clear heat and transform damp, resolve toxin and disperse swelling. TCM Indications: Abdominal pain and diarrhea, dysentery, common cold with cough, summerheat stroke, skin heat papules, red eyes with gall, swelling toxin of sore and boil, poisonous snake bite, burns and scalds. Isolated compounds: 14902, 14903, 14904, 14905.
- T4262 *Mollugo spargula* (Aizoaceae). Isolated compounds: 20142, 20143, 20144, 20145.
- T4263 *Momordica charantia* (Cucurbitaceae); KU GUA; Balsampear. Used part: fruit. TCM Effects: To dispel summerheat, brighten eyes, resolve toxin. TCM Indications: Summerheat-heat vexation and thirst, diabetes mellitus, painful red eyes, dysentery, swelling toxin of sore and welling abscess. Isolated compounds: 1046, 3774, 8078, 13212, 14907, 14908, 19987, 20346, 22466.
- T4264 *Momordica cochinchinensis* (Cucurbitaceae); MU BIE GEN; Cochinina Momordica Root. Used part: tuberoid. TCM Effects: To resolve toxin, disperse distention, relieve pain. TCM Indications: Welling abscess and toxin of clove, innominate toxin swelling, lymphnoditis. Isolated compounds: 2973, 4127.
- T4265 *Momordica cochinchinensis* (Cucurbitaceae); MU BIE ZI; Cochinina Momordica Seed. Used part: ripe seed. TCM Effects: To dissipate binds and disperse swelling, attack toxin and cure sores. TCM Indications: Swollen welling abscess, mammary welling abscess, scrofula, hemorrhoids and fistulas, dry lichen, bald sores. Isolated compounds: 14909, 16050.
- T4266 *Momordica dioica* (Cucurbitaceae); SHAN KU GUA; Mountain Balsampear. Isolated compounds: 8765.  
*Momordica grosvenorii* = *Siraitia grosvenorii*
- T4267 *Monachosorum flagellare* (Monachosoraceae); WEI YE XI ZI JUE; Tail-leaf Monachosorum. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Wind-damp impediment pain, pain wind. Isolated compounds: 14911, 14912, 14913, 15026, 18098.
- T4268 *Monachosorum henryi* (Monachosoraceae); XI ZI JUE; Henry's Monachosorum. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, relieve pain. TCM Indications: Wind-damp bone pain, painful wound from knocks and falls, mounting *qi*. Isolated compounds: 14911, 14912, 14913, 15026.
- T4269 *Monarda didyma* (Lamiaceae); MEI GUO BO HE; Oswegotea. Isolated compounds: 14914.
- T4270 *Monascus kaoliang* GAO LIANG HONG QU; Red Koji; Angkak. Isolated compounds: 14915, 14916.
- T4271 *Mondia whitei* MENG DI TENG. Isolated compounds: 3570.
- T4272 *Monimia* spp. Isolated compounds: 15751.
- T4273 *Monochaetum multiflorum* (Melastomataceae). Isolated compounds: 2286, 8104, 8114, 14921, 15643.
- T4274 *Monostroma nitidum* (Monostromaceae); JIAO MO. Used part: frond. TCM Effects: To clear heat and disinhibit water, transform phlegm and relieve cough. TCM Indications: Laryngitis, cough and abundant phlegm, edema, inhibited urination [=dysuria]. Isolated compounds: 9384.
- T4275 *Monotropa hypopitys* (Pyrolaceae); HUANG SHUI JING LAN; Yellow Bird's-nest. Used part: whole herb or root. TCM Effects: To suppress cough, supplement vacuity. TCM Indications: Spasmodic cough, trachitis, vacuity weakness, inhibited urination. Isolated compounds: 14933.
- T4276 *Monotropa uniflora* (Pyrolaceae); SHUI JING LAN; Indianpipe. Used part: root. TCM Effects: To supplement lung and relieve cough. TCM Indications: Lung vacuity cough. Isolated compounds: 14933.
- T4277 *Montanoa tomentosa* (Asteraceae). Isolated compounds: 23021.
- T4278 *Montrouzieria sphaeroidea* (Clusiaceae). Isolated compounds: 14947, 14948.
- T4279 *Morina chinensis* (Dipsacaceae); YUAN E CI XU DUAN; Chinese Morina. Used part: whole herb or seed. TCM Effects: To dispel wind-damp, supplement liver and kidney, disperse swollen welling abscess. TCM Indications: Wind-damp impediment pain, aching in lumbus and knees, dizziness, frequent urination, swelling and pain of sore and welling abscess. Isolated compounds: 14976, 14977.
- T4280 *Morinda citrifolia* (Rubiaceae); HAI BA JI; Indianmulberry. Used part: root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Dysentery, tuberculosis. Isolated compounds: 899, 900, 1360, 1361, 1894, 4716, 6376, 9790, 14972, 14974, 14975, 15734.
- T4281 *Morinda coreia* (Rubiaceae); TAI GUO BA JI; Thailand Indianmulberry\*. Isolated compounds: 470, 507, 21923, 22926, 22927, 22928.
- T4282 *Morinda lucida* (Rubiaceae); GUANG ZE BA JI; Lucid Indianmulberry\*. Isolated compounds: 14144, 15734.
- T4283 *Morinda officinalis* (Rubiaceae); BA JI TIAN; Medicinal Indianmulberry. Used part: root. TCM Effects: To supplement kidney and invigorate *yang*, strengthen sinews and bones, eliminate wind-damp. TCM Indications: Neurasthenia, impotence and emission, cold pain in abdomen, urinary incontinence, vacuity cold of uterus, wind-cold-damp impediment, aching in lumbus and knees. Isolated compounds: 1893, 5818, 5961, 9791, 10193, 10467, 14933, 14973, 16014, 17247, 19983.
- T4284 *Morinda parvifolia* (Rubiaceae); BAI YAN TENG; Littleleaf Indianmulberry. Used part: whole plant. TCM Effects: To clear heat and relieve cough, harmonize stomach and transform damp, dissipate stasis and relieve pain. TCM Indications: Common cold with cough, pertussis, indigestion, eczema, knocks and falls, taxation damage in lumbar muscle. Isolated compounds: 5522, 10468, 13044.
- T4285 *Morinda tinctoria* (Rubiaceae); RAN SE JI YAN TENG; Dyed Morinda. Isolated compounds: 14974, 15734.
- T4286 *Morinda umbellata* (Rubiaceae); YANG JIAO TENG; Common Indianmulberry. Used part: root or bark. TCM Effects: To dispel wind-damp. TCM Indications: Swelling pain in joints, kidney vacuity lumbago. Isolated compounds: 899, 900, 901, 9792, 10467, 13041, 14002, 14144, 15076, 18224, 18998, 18999, 20369.
- T4287 *Morus alba* (Moraceae); SANG BAI PI; White Mulberry Root-bast.

- Used part: root cortex. TCM Effects: To drain lung and calm asthma, disinherit water and disperse edema. TCM Indications: Lung heat cough asthma, water-rheum collecting lung, distention fullness and rapid asthma, edema, beriberi, inhibited urination. Isolated compounds: 4517, 4518, 6002, 6003, 6004, 6914, 12379, 12380, 12381, 12382, 12383, 12384, 12387, 12388, 12389, 12393, 12394, 14951, 14952, 14965, 14971, 14995, 15038, 15039, 15040, 15045, 15047, 15048, 15049, 15050, 15051, 15812, 16445, 19255, 19256, 19257, 19259, 19260, 19261, 19262, 19263, 19264, 19265, 19266, 19267, 19268, 19269, 19270, 19271, 19542.
- T4288 *Morus alba* (Moraceae); SANG SHI; White Mulberry Fruit. Used part: spicate fruit. TCM Effects: To enrich *yin* and nourish blood, engender liquid, moisten intestines. TCM Indications: Dizzy head and vision due to insufficiency of liver-kidney and blood vacuity essence depletion, aching lumbus and tinnitus, premature graying in beard and hair, insomnia and frequent dreaming, fluid damage and thirst, diabetes mellitus, intestinal dry and constipation. Isolated compounds: 6052, 6053, 6054, 14989, 14990, 14991, 14992, 14993, 14994, 21815, 21816.
- T4289 *Morus alba* (Moraceae); SANG YE; White Mulberry Leaf. Equivalent plant: *Morus mongolica*, *Morus australis*, *Morus cathayana*. Used part: leaf. TCM Effects: To course wind and dissipate heat, clear lung and moisten dryness, clear liver and brighten eyes. TCM Indications: Wind-heat common cold, lung heat dry cough, dizziness and headache, red eyes and clouded vision. Isolated compounds: 617, 844, 846, 1935, 2276, 3040, 3551, 4232, 4337, 5789, 6002, 6003, 6004, 6679, 7521, 7852, 7853, 9021, 9942, 9943, 9944, 9945, 11067, 11085, 11290, 11642, 11754, 12385, 12386, 13098, 13296, 14718, 14953, 14954, 14955, 14956, 14957, 14958, 14959, 14960, 14971, 14995, 15039, 16532, 16884, 18317, 18834, 18918, 19087, 19542, 19545, 19987, 20003, 21662, 22554.
- T4290 *Morus alba* (Moraceae); SANG ZHI; White Mulberry Branch. Used part: young twig. TCM Effects: To dispel wind-damp, disinherit joints, lower blood pressure, disinherit urine. TCM Indications: Hypertension, aching pain in joints, numbness in joints. Isolated compounds: 863, 1764, 3010, 4337, 4517, 4518, 5198, 5475, 5679, 7705, 8052, 13296, 14290, 14971, 14995, 15038, 17841.
- T4291 *Morus australis* (Moraceae); AO DA LI YA SANG; Japanese Mulberry. Used part: leaf. TCM Effects: See *Morus alba*. TCM Indications: See *Morus alba*. Isolated compounds: 15038.
- T4292 *Morus bombycis* (Moraceae); CAN SANG; Silk Mulberry\*. Isolated compounds: 3453, 12377, 15041.
- T4293 *Morus cathayana* (Moraceae); HUA SANG; Chinese Mulberry. Used part: leaf. TCM Effects: See *Morus alba*. TCM Indications: See *Morus alba*. Isolated compounds: 3324, 3325, 15053, 19252, 19255, 19256, 19257, 19258, 19259, 19268, 19270.
- T4294 *Morus insignis* (Moraceae). Isolated compounds: 14984, 14985, 14986, 14987, 14988.
- T4295 *Morus laevigata* (Moraceae); PING HUA SANG; Smooth Mulberry\*. Isolated compounds: 13085.
- T4296 *Morus lhou* (Moraceae). Isolated compounds: 847, 15043, 15044, 15052, 15058.
- T4297 *Morus macroura* (Moraceae); NAI SANG; Long-tail Mulberry\*. Isolated compounds: 845, 9053, 9054, 9055, 9056, 9057, 9058, 9059, 9060, 9061, 9062, 9063, 9064, 9065, 9066, 12390, 12391, 12392, 15044, 15045.
- T4298 *Morus mongolica* (Moraceae); MENG SANG; Mongolian Mulberry. Used part: leaf. TCM Effects: See *Morus alba*. TCM Indications: See *Morus alba*. Isolated compounds: 1956, 12378, 12385, 12386, 14995, 15038, 15040, 15042, 15046, 15054, 15055, 15056, 15057, 19253, 19254, 19262, 19272.
- T4299 *Morus serrata* (Moraceae); JU CHI SANG; Serrate Mulberry\*. Isolated compounds: 14971.
- T4300 *Morus* sp. (Moraceae). Isolated compounds: 2018, 3010, 3011, 4234, 4343, 5700, 8053, 8614, 11894, 13851, 14983, 18919, 19265, 20003.
- T4301 *Morus* spp. (Moraceae). Isolated compounds: 16445.
- T4302 *Morus tinctoria* (Moraceae); RAN SE SANG; Tinctorial Mulberry\*. Isolated compounds: 14971.
- T4303 *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus* (Cervidae); SHE XIANG; Abelmusk. Used part: dried secretion obtained from musk gland of musk deer. TCM Effects: To open orifices and arouse spirit, quicken blood and dissipate binds, disperse swelling and relieve pain. TCM Indications: Angina pectoris, cerebral thrombosis, vascular migraine, carcinoma, febrile diseases clouded spirit, wind stroke with phlegm reversal, *qi* depression and fulminant reversal, malignity stroke stupor, amenorrhea due to blood stasis, concretion conglomeration accumulation and gathering, sudden pain in heart and abdomen, knocks and falls, wound, impediment pain numbness, malign sore with welling abscess and flat abscess, throat impediment, mouth sore, *gan* of teeth and gum, otitis media. Isolated compounds: 917, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 3578, 3585, 4524, 4537, 4538, 4831, 7383, 7384, 9780, 9781, 9782, 9783, 10532, 10533, 14276, 15127, 15128, 15129, 15130, 15682, 15778, 21022, 22247, 22248.
- T4304 *Mosla chinensis* [Syn. *Orthodon chinensis*] (Lamiaceae); SHI XIANG RU; Chinese Orthodon. Used part: whole herb. TCM Effects: To effuse sweat and resolve summerheat, transform damp and harmonize center, move water and disperse swelling. TCM Indications: Summer externally contracted wind-cold, headache without sweating, pain in stomach duct and abdomen, vomiting and diarrhea, inhibited urination, edema. Isolated compounds: 2550, 3231, 3232, 7521, 9669, 10025, 21360.
- T4305 *Mosla dianthera* (Lamiaceae); DA YE XIANG RU; Twoanther Mosla. Used part: whole herb. TCM Effects: To effuse exterior and dispel summerheat, disinherit damp and harmonize center, stanch bleeding and disperse swelling, dissipate wind and relieve itch. TCM Indications: Wind-cold common cold, *yin* summerheat and headache, nausea, pain in stomach duct, white dysentery, edema, spontaneous external bleeding, bleeding from hemorrhoids, sore and boil, pudendal itch, eczema, bleeding due to external injury, snake or insect bites. Isolated compounds: 2412, 4550, 6193, 6482, 9669, 12843, 20988.
- T4306 *Mosla grosseserrata* (Lamiaceae); JI NING; Largeserrate Mosla. Used part: stem-leaf. TCM Effects: To disinherit water and disperse edema, harmonize stomach and inhibit acid. TCM Indications: Diarrhea and dysentery due to cold *qi*, hyperchlorhydria. Isolated compounds: 2412, 9669.



*Mosla punctata* = *Mosla scabra*

- T4307 *Mosla scabra* [Syn. *Mosla punctata*] (Lamiaceae); SHI JI NING; Scabrous Mosla. Used part: whole herb. TCM Effects: To course wind and resolve exterior, clear summerheat and eliminate damp, resolve toxin and relieve itch. TCM Indications: Common cold with headache, cough, summerheat stroke, eczema, enteritis, dysentery, bleeding from hemorrhoids, flooding, prickly heat, wind papules, foot lichen, snake or insect bites. Isolated compounds: 1148, 1835, 2849, 9669, 11552, 13391, 15000, 15001, 15926, 21350.
- T4308 *Mucuna birdwoodiana* (Fabaceae); BAI HUA YOU MA TENG; Whiteflower Mucuna. Used part: rattan. TCM Effects: To supplement blood and quicken blood, free channels and quicken network vessels. TCM Indications: blood vacuity, septicemia, menstrual disorder, numbness and paralysis, aching in lumbus and legs. Isolated compounds: 6558, 7788.
- T4309 *Mucuna cochinchinensis* (Fabaceae); MAO DOU; Cochinchina Mucuna\*. Isolated compounds: 6558.
- T4310 *Mucuna pruriens* (Fabaceae); CI YANG LI DOU; Cowage Velvet-bean. Isolated compounds: 3169, 3170, 6418, 6420, 10818, 19760.
- T4311 *Mucuna sempervirens* (Fabaceae); CHANG CHUN YOU MA TENG; Evergreen Mucuna. Used part: stem. TCM Effects: To quicken blood and regulate menstruation, supplement blood and soothe sinews. TCM Indications: Menstrual disorder, dysmenorrhea, amenorrhea, postpartum anemia, blood vacuity, wind-damp impediment pain, numbness in limbs, knocks and falls. Isolated compounds: 6558.
- T4312 *Muehlenbeckia* spp. (Polygonaceae). Isolated compounds: 3615.
- T4313 *Mulinum spinosum* (Lamiaceae); DUO CI LUO CAO; Argentin *Mulinum spinosum*. Isolated compounds: 15060, 15061.  
*Munchausia speciosa* = *Lagerstroemia speciosa*
- T4314 *Muntingia calabura* YA MAI JIA YING TAO; Jamaica Cherry\*. Isolated compounds: 1401, 1406, 1407, 1414, 1419, 11504, 16864, 21918.
- T4315 *Muricella sinensis* (Gorgonidae); ZHONG HUA XIAO JIAN LIU SHAN HU; Gorgonian *Muricella sinensis*. Isolated compounds: 2975.
- T4316 *Murraya cremulata* (Rutaceae); TAI WAN JIU LI XIANG; Taiwan Common Jasminorange. Isolated compounds: 15117.
- T4317 *Murraya euchrestifolia* [Syn. *Clausena euchrestifolia*] (Rutaceae); DOU YE JIU LI XIANG; Euchretaleaf Common Jasminorange. Used part: branch-leaf. TCM Effects: To course wind and resolve exterior, quicken blood and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Common cold, cough, headache, knocks and falls, wind-damp bone pain. Isolated compounds: 13397, 13398, 15117, 15118.
- T4318 *Murraya exotica* (Rutaceae); ZHONG HUA JIU LI XIANG; Chinese Common Jasminorange. Isolated compounds: 2485, 13398, 14824, 14825, 15105, 16260.
- T4319 *Murraya koenigii* (Rutaceae); YIN DU JIU LI XIANG; Indian Common Jasminorange. Isolated compounds: 2480, 8456, 9419, 10104, 11520, 11690, 12247, 12248, 12249, 12250, 13398, 13399, 15113, 15118, 15119, 16442.
- T4320 *Murraya kwangsiensis* (Rutaceae); GUANG XI JIU LI XIANG; Kwangsi Jasminorange. Used part: branch-leaf. TCM Effects: To course wind and resolve exterior, quicken blood and disperse swelling. TCM Indications: Common cold, measles papules, knocks and falls, keratitis, fracture. Isolated compounds: 12396.
- T4321 *Murraya microphylla* (Rutaceae); NEN YE JIU LI XIANG; Juvenileleaf Common Jasminorange. Isolated compounds: 8456.
- T4322 *Murraya omphalocarpa* (Rutaceae); QI GUO JIU LI XIANG; Omphalo-fruit Common Jasminorange\*. Isolated compounds: 6266, 15103, 15104, 15107, 15120, 16094, 16095.
- T4323 *Murraya paniculata* [Syn. *Chalcas paniculata*] (Rutaceae); JIU LI XIANG; Common Jasminorange. Equivalent plant: *Murraya paniculata* var. *exotica*. Used part: leaf and branchlet. TCM Effects: To move *qi* and quicken blood, dissipate stasis and relieve pain, resolve toxin and disperse swelling, anesthetize and settle pain. TCM Indications: Pain in stomach duct, wind-damp impediment pain, painful swelling from knocks and falls, sore and welling abscess, snake or insect bites, local anesthesia. Isolated compounds: 570, 859, 1763, 2137, 2354, 2355, 3194, 3241, 3242, 3768, 4193, 4515, 5057, 5089, 5556, 6265, 6266, 7521, 7696, 7697, 8312, 9193, 9403, 9404, 9405, 9406, 9509, 9511, 10928, 11001, 11534, 11536, 12843, 13397, 13781, 13930, 14142, 14718, 14718, 14825, 14841, 15100, 15101, 15102, 15104, 15108, 15109, 15110, 15118, 15121, 15122, 15707, 15935, 16259, 16261, 16605, 16606, 16615, 16617, 16930, 16935, 17051, 17376, 17377, 18190, 19542, 19545, 19694, 19929, 20002, 22615, 22937.
- T4324 *Murraya paniculata* [Syn. *Chalcas paniculata*] (Rutaceae); JIU LI XIANG GEN; Common Jasminorange Root. Used part: root. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, free network vessels and dissipate stasis. TCM Indications: Wind-damp impediment pain, cold pain in lumbus and knees, pain wind, knocks and falls, painful swollen testes, eczema, scab and lichen. Isolated compounds: 10162, 16612, 16613, 16614, 16871, 22937.
- T4325 *Murraya paniculata* var. *exotica* (Rutaceae); XIAO YE JIU LI XIANG; Littleleaf Common Jasminorange. Used part: leaf and branchlet. TCM Effects: See *Murraya paniculata*. TCM Indications: See *Murraya paniculata*. Isolated compounds: 11520, 11549, 11550, 13397, 13398, 13399, 13780, 13781, 13923, 13958, 13996, 14824, 14874, 15100, 15106, 15111, 15112, 16969, 16975.
- T4326 *Murraya paniculata* var. *omphalocarpa* (Rutaceae); QI GUO QIAN LI XIANG; Omphalo-fruit Jasminorange\*. Isolated compounds: 14825, 16096.
- T4327 *Murraya siamensis* (Rutaceae); YUAN DONG JIU LI XIANG; Siamense Common Jasminorange. Isolated compounds: 3937, 5796, 8324, 8456, 10126, 13846, 15114, 15115, 15116, 15118.
- T4328 *Murraya* spp. (Rutaceae). Isolated compounds: 17051.
- T4329 *Musa acuminata* (Musaceae); XIAO GUO YE JIAO; Acuminate Banana. Isolated compounds: 6823, 6866, 6924, 8099, 17897, 21837.
- T4330 *Musa paradisiaca* (Musaceae); FEN BA JIAO; Plantain Banana. Isolated compounds: 19198.
- T4331 *Musa paradisiaca* var. *sapientum* [Syn. *Musa sapientum*] (Musaceae); XIANG JIAO; Common Banana. Used part: fruit. TCM Effects: To clear heat, moisten lung, lubricate intestines, resolve toxin. TCM Indications: Febrile diseases with vexation and thirst, lung heat dry cough, constipation, hemorrhoids. Isolated compounds: 653, 6559, 9568, 15708, 19760.

*Musa sapientum* = *Musa paradisiaca* var. *sapientum*

- T4332 *Musa x paradisiaca* cultivar (Musaceae); FEN BA JIAO ZA JIAO ZHONG ZHI BIAN ZHONG; Plantain Banana Cultivariety\*. Isolated compounds: 1393, 1434, 1435, 2468.
- T4333 *Muscari paradoxum* (Liliaceae); QI YI PU TAO FENG XIN ZI; Paradoxy Grape-hyacinth\*. Isolated compounds: 1507, 1508, 7130, 7131, 7132, 7138, 7139, 7140, 12481, 13058, 13059, 13060, 19521, 19522, 19523.
- T4334 *Mussaenda hirsutissim* (Rubiaceae); YU YE JIN HUA; Mussaenda\*. Isolated compounds: 3432.
- T4335 *Mussaenda pubescens* (Rubiaceae); SHAN GAN CAO; Buddha's Lamp. Used part: stem-leaf. TCM Effects: To resolve exterior, clear summerheat, disinhibit damp, resolve toxin, quicken blood. TCM Indications: Common cold, summerheat stroke, fever, cough, swelling pain in throat, summerheat-damp diarrhea, dysentery, swelling and pus of sores, knocks and falls, snake bite. Isolated compounds: 1736, 20369.
- T4336 *Mycena dendrobii* (Tricholomataceae); SHI HU XIAO GU; Dendrob Mycena. Isolated compounds: 7093.
- T4337 *Mycobacterium phlei*. Isolated compounds: 17263.
- T4338 *Mylabris phalerata*; *Mylabris cichorii* (Meloidae); BAN MAO; Blister Beetle. Used part: dried body. TCM Effects: To break blood and disperse concretion, attack toxin and cure sores. TCM Indications: Concretion and conglomeration, intractable lichen, scrofula, wart, non-opened welling abscess and flat abscess, malign sore. Isolated compounds: 1050, 1051, 3094, 6341.
- T4339 *Mylia nuda* (Jungermanniaceae); LUO XIAO E TAI. Isolated compounds: 1755, 1756, 1757, 6840, 9039, 9040, 15143, 15144, 20886, 20887, 20888, 20889, 20890.
- T4340 *Mylia taylorii* (Jungermanniaceae); XIAO E TAI. Isolated compounds: 1755, 1756, 1757, 6840, 9039, 9040, 15143, 15144, 20886, 20887, 20888, 20889, 20890.
- T4341 *Myoporium* sp. (Myoporaceae). Isolated compounds: 11143.
- T4342 *Myrica arborea* (Myricaceae); QIAO MU ZHUANG YANG MEI; Arboreous Bayberry\*. Isolated compounds: 15167, 22837.
- T4343 *Myrica esculent* (Myricaceae); MAO YANG MEI; Hairy Bayberry. Used part: bark. TCM Effects: To astrin角度 intestines and check diarrhea, stanch bleeding, relieve pain. TCM Indications: Diarrhea, dysentery, flooding and spotting, stomachache. Isolated compounds: 6923.
- T4344 *Myrica gale* (Myricaceae); XIANG YANG MEI; Bog-myrtle. Isolated compounds: 11966, 15187.
- T4345 *Myrica multiflora* (Myricaceae); DUO HUA YANG MEI; Manyflower Bayberry\*. Isolated compounds: 15147, 15148, 15149, 15150, 15151.
- T4346 *Myrica nagi* [Syn. *Podocarpus nagi*] (Podocarpaceae); ZHU BAI; Nagai Podocarpus. Used part: leaf. TCM Effects: To stanch bleeding and joint bones. TCM Indications: Bleeding due to external injury, fracture. Isolated compounds: 6853, 15170, 15229, 15230, 15231, 15232, 22615.
- T4347 *Myrica nagi* [Syn. *Podocarpus nagi*] (Podocarpaceae); ZHU BAI GEN; Nagai Podocarpus Root. Used part: root or bark. TCM Effects: To dispel wind and eliminate damp. TCM Indications: Wind-damp impediment pain. Isolated compounds: 15235, 15236, 15237, 21474.
- T4348 *Myrica rubra* (Myricaceae); YANG MEI; Chinese Waxmyrtle. Used part: fruit. TCM Effects: To engender liquid and allay thirst, harmonize stomach and disperse food. TCM Indications: Vexation and thirst, vomiting and diarrhea, dysentery, abdominal pain. Isolated compounds: 1110, 1113, 11085, 13098, 15170, 15184.
- T4349 *Myrica rubra* (Myricaceae); YANG MEI SHU PI; Chinese Waxmyrtle Bark. Used part: bark. TCM Effects: To rectify *qi* and dissipate stasis, eliminate damp, relieve pain. TCM Indications: Dysentery, knocks and falls, eye screen, toothache, burns and scalds, malign scab and *lai* sore. Isolated compounds: 530, 984, 3084, 6059, 6251, 6921, 8095, 10129, 15154, 15155, 15156, 15157, 15158, 15159, 15160, 15161, 15162, 15163, 15164, 15165, 15166, 15168, 15170, 15184, 17900, 18411, 18413, 18818, 19983, 20711, 22270, 22272.
- T4350 *Myriopteron extensum* (Asclepiadaceae); CHI GUO TENG; Extended Wingfruitvine. Used part: whole herb. TCM Effects: To boost lung and relieve cough. TCM Indications: Phthisis, cough. Isolated compounds: 7698, 7699.
- T4351 *Myristica fragrans* (Myristicaceae); ROU DOU KOU; Common Nutmeg. Used part: kernel. TCM Effects: To warm center and move *qi*, astrin角度 intestines and check diarrhea. TCM Indications: Spleen-stomach vacuity cold, incessant chronic diarrhea, distending pain in stomach duct, reduced food intake with vomiting. Isolated compounds: 2559, 7521, 7523, 7933, 11408, 11421, 12749, 12750, 14531, 15203, 15204, 17376, 17453, 19121, 21980.
- T4352 *Myristica malabarica* (Myristicaceae); MENG MAI ROU DOU KOU; Bombay Nutmeg\*. Isolated compounds: 2384, 5822, 6243, 10447, 18001.
- T4353 *Myristica otoba* (Myristicaceae); AO TUO ROU DOU KOU; Otoba Nutmeg\*. Isolated compounds: 16267.
- T4354 *Myristica simiarum* (Myristicaceae); FEI LV BIN ROU DOU KOU; Antao Nutmeg. Isolated compounds: 16267.  
*Myristica surinamensis* = *Virola surinamensis*
- T4355 *Myrothecium roridum*. Isolated compounds: 21559.
- T4356 *Myrothecium* sp. Isolated compounds: 4520, 15206, 15207, 16897, 21558.
- T4357 *Myrothecium verrucaria*. Isolated compounds: 22420.
- T4358 *Myroxylon pereirae* (Fabaceae); BI LU XIANG JIAO; Peru Balmtree Resin. Used part: balsam. TCM Effects: To relieve cough and dispel phlegm, resolve toxin and kill worms. TCM Indications: Scab sore, copper coin lichen. Isolated compounds: 2280, 2282, 3695, 15500, 15500.
- T4359 *Myroxylon* spp. (Fabaceae). Isolated compounds: 3004, 12908.
- T4360 *Myrrhis odorata* (Apiaceae); OU ZHOU MO YAO; Sweet Cicely. Isolated compounds: 17028.
- T4361 *Myrsine africana* (Myrsinaceae); TIE ZI; African Myrsine. Used part: root or herb. TCM Effects: To dispel wind and relieve pain, clear heat and disinhibit damp, promote contraction and stanch bleeding. TCM Indications: Wind-damp impediment pain, toothache, diarrhea, dysentery, flooding, hematochezia, tuberculosis and hemoptysis. Isolated compounds: 6767, 6776, 14140, 14809, 15782, 17858, 18410.
- T4362 *Myrsine capitellata* (Myrsinaceae); XIAO TOU TIE ZI; Capitellate Myrsine\*. Isolated compounds: 6767.
- T4363 *Myrsine seguinii* (Myrsinaceae). Isolated compounds: 15210, 15211,

15212, 15213, 15214, 19670, 19671, 19672, 19673, 19674.

- T4364 *Myrsine semiserrata* (Myrsinaceae); CHI YE TIE ZI; Serrate-leaf Myrsine. Used part: fruit. TCM Effects: To expel worms. TCM Indications: Taeniasis. Isolated compounds: 6767.
- T4365 *Myrsine* sp. (Myrsinaceae). Isolated compounds: 18546.  
*Myrtus cumini* = *Eugenia jambolana*
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- T4366 *Naematoloma fasciculare* (Strophariaceae); CU SHENG HUANG REN SAN; Sulfur Tuft. Used part: sporocarp. TCM Effects: Anticarcinoma. Isolated compounds: 7737, 7738.
- T4367 *Naematoloma sublateritium* (Strophariaceae); ZHUAN HONG REN SAN; Brick Tops. Used part: sporocarp. TCM Effects: Anticarcinoma. Isolated compounds: 20441, 20442, 20443.
- T4368 *Nandina domestica* (Berberidaceae); NAN TIAN ZHU GEN; Common Nandina Root. Used part: root. TCM Effects: To clear heat, relieve cough, eliminate damp, resolve toxin. TCM Indications: Lung heat cough, damp-heat jaundice, diarrhea, wind-damp impediment pain, sore, scrofula. Isolated compounds: 6552, 14332, 15243, 15245.
- T4369 *Nandina domestica* (Berberidaceae); NAN TIAN ZHU GENG; Common Nandina Stem. Used part: branchlet. TCM Effects: To clear damp heat, downbear counterflow *qi*. TCM Indications: Damp-heat jaundice, diarrhea, heat strangury, red eyes with gall, cough and asthma, *ge* syndrome. Isolated compounds: 6552, 14332, 15243, 15779, 21252.
- T4370 *Nandina domestica* (Berberidaceae); NAN TIAN ZHU YE; Common Nandina Leaf. Used part: leaf. TCM Effects: To clear heat and disinherit damp, drain fire, resolve toxin. TCM Indications: Lung heat cough, pertussis, heat strangury, hematuria, red eyes with gall, sore and welling abscess, scrofula. Isolated compounds: 6835, 15244, 15247, 15248.
- T4371 *Nandina domestica* (Berberidaceae); NAN TIAN ZHU ZI; Common Nandina Fruit. Used part: ripe fruit. TCM Effects: To constrain lung and relieve cough, calm asthma. TCM Indications: Enduring cough, asthma, pertussis. Isolated compounds: 2978, 6552, 8756, 11344, 13716, 14332, 15245, 15779, 17983.
- T4372 *Nannoglottis ravida* (Asteraceae); QIAN HUI MAO GUAN JU; Greyish Nannoglottis\*. Isolated compounds: 18559, 18560.
- T4373 *Narcissus angustifolius* (Amaryllidaceae); WU KE LAN XIA YE SHUI XIAN; Ukrainian Narrowleaf Narcissus\*. Isolated compounds: 15246.
- T4374 *Narcissus bujei* (Amaryllidaceae); YI BI LI YA SHUI XIAN; Iberian Narcissus\*. Isolated compounds: 406, 2733.
- T4375 *Narcissus leonensis* (Amaryllidaceae); SAI LA LI ANG SHUI XIAN. Isolated compounds: 15750.
- T4376 *Narcissus nivalis* (Amaryllidaceae); XUE SHENG SHUI XIAN. Isolated compounds: 15750.
- T4377 *Narcissus papyraceus* (Amaryllidaceae); BAI SHUI XIAN; Paper-white Narcissus. Isolated compounds: 8083, 13236.
- T4378 *Narcissus poeticus* (Amaryllidaceae); HONG KOU SHUI XIAN; Poets Narcissus. Isolated compounds: 9612, 17479.
- T4379 *Narcissus pseudonarcissus* (Amaryllidaceae); HUANG SHUI XIAN; Daffodil. Isolated compounds: 13239.
- T4380 *Narcissus pseudonarcissus* ssp. *pseudonarcissus* (Amaryllidaceae); JIA SHUI XIAN; False Narcissus\*. Isolated compounds: 15750.
- T4381 *Narcissus* sp. (Amaryllidaceae). Isolated compounds: 3693, 7821.
- T4382 *Narcissus* spp. (Amaryllidaceae). Isolated compounds: 17573.
- T4383 *Narcissus tazetta* (Amaryllidaceae); DUO HUA SHUI XIAN; Polyanthus Narcissus. Isolated compounds: 17850, 20891.
- T4384 *Narcissus tazetta* var. *chinensis* (Amaryllidaceae); SHUI XIAN GEN; Chinese Narcissus Bulb. Used part: bulb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Swelling toxin of sore and welling abscess, insect bites, fish bone stuck in throat. Isolated compounds: 8083, 13236, 13241, 16634, 17850, 18050, 20891.
- T4385 *Narcissus tazetta* var. *chinensis* (Amaryllidaceae); SHUI XIAN HUA; Chinese Narcissus Flower. Used part: flower. TCM Effects: To clear heart and quiet spirit, rectify *qi* and regulate menstruation, resolve toxin and repel foulness. TCM Indications: Fatigued spirit and dizziness, menstrual disorder, dysentery, swelling of sores. Isolated compounds: 2222, 2273, 3696, 3768, 7521, 11025, 13241, 15265, 17111, 17132, 18050.
- T4386 *Nardostachys chinensis* (Valerianaceae); GAN SONG; Chinese Nardostachys. Equivalent plant: *Nardostachys jatamansi*. Used part: root and rhizome. TCM Effects: To rectify *qi* and relieve pain, harmonize stomach and arouse spleen. TCM Indications: Stomachache, distention fullness in chest and abdomen, headache, hysteria, beriberi. Isolated compounds: 1191, 1701, 1704, 1706, 1707, 2943, 2944, 3194, 4815, 7514, 9483, 11553, 11754, 11834, 11835, 12132, 12133, 12134, 12135, 12136, 15264, 15269, 15270, 15271, 15272, 15273, 15274, 15275, 15276, 15277, 16213, 16707, 16711, 21048, 22313.
- T4387 *Nardostachys jatamansi* (Valerianaceae); SHI YE GAN SONG; Spoonleaf Nardostachys. Used part: root and rhizome. TCM Effects: See *Nardostachys chinensis*. TCM Indications: See *Nardostachys chinensis*. Isolated compounds: 11833, 11834, 11835, 13283, 16707, 16711, 19792, 19793.
- T4388 *Nasturtium officinale* (Brassicaceae); DOU BAN CAI; Watercress. Used part: whole herb. TCM Effects: To clear lung, cool blood, resolve toxin, disinherit urine. TCM Indications: Lung heat dry cough, scurvy, infection of urinary system, painful swelling from clove sore, itchy skin. Isolated compounds: 8599, 14760, 14761, 17131.
- T4389 *Nauclea diderrichii* (Rubiaceae); DI SHI WU TAN; Diderrichi Fatheadtree\*. Isolated compounds: 3157, 3158, 5272, 5273, 15297, 15300, 15301, 15309, 15314.
- T4390 *Nauclea latifolia* (Rubiaceae); KUAN YE WU TAN; Broadleaf Fatheadtree\*. Isolated compounds: 3184, 4840, 5540, 5541, 5542, 6973, 9788, 10733, 13874, 13876, 15292, 15293, 15294, 15295, 15296, 15297, 15305, 15313, 15315, 15316, 20390.
- T4391 *Nauclea officinalis* (Rubiaceae); DAN MU; Medicinal Fatheadtree. Used part: Branch and bark. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Acute tonsillitis, pharyngolaryngitis, mastitis, enteritis, bacillary dysentery, urinary tract infection, cholecystitis, ulcer of lower limb, infection due to foot lichen, swollen boil with pus and ulcer, dermatitis, eczema. Isolated compounds: 15298, 15299, 15302, 15303, 15304, 15306, 15307, 22493.

- T4392 *Nauclea orientalis* (Rubiaceae); DONG FANG WU TAN; Oriental Fatheadtree\*. Isolated compounds: 515, 3186, 10733, 15290, 15291, 15310, 15311, 18199, 19983, 19987, 20390, 21923, 22496.  
*Nauclea pilosa* = *Uncaria scandens*
- T4393 *Nauclea pobequini* (Rubiaceae); BO SHI WU TAN; pobequini Fatheadtree\*. Isolated compounds: 15308, 15312.  
*Nauclea rhynchophylla* = *Uncaria rhynchophylla*  
*Nauclea sessilifolia* = *Neonauclea sessilifolia*  
*Nauclea sessilifructus* = *Uncaria sessilifructus*
- T4394 *Navicula delognei* f. *elliptica* (Naviculaceae); TUO YUAN ZHOU XING ZAO; Ellipse Navicula\*. Isolated compounds: 17272.
- T4395 *Necturus maculosus* (Salamandridae); BAN YUAN; Mudpuppy. Isolated compounds: 19223.
- T4396 *Nelumbo lutea* (Nymphaeaceae); JIN HUANG LIAN; American Lotus. Isolated compounds: 15781.
- T4397 *Nelumbo nucifera* (Nymphaeaceae); HE GENG; Hindu Lotus Petiole. Used part: dried petiole and pedicel. TCM Effects: To dispel summerheat, rectify *qi* and transform damp. TCM Indications: Summerheat-damp and oppression in chest, diarrhea, dysentery, strangury, Vaginal discharge. Isolated compounds: 14148, 18896.
- T4398 *Nelumbo nucifera* (Nymphaeaceae); HE YE; Hindu Lotus Leaf. Used part: leaf. TCM Effects: To clear heat and resolve summerheat, upbear *yang*, cool blood and stanch bleeding. TCM Indications: Summerheat-heat vexation and thirst, summerheat-damp diarrhea, spleen vacuity diarrhea, blood heat, blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting. Isolated compounds: 1348, 1738, 8600, 10887, 11642, 12915, 12917, 14148, 14247, 15325, 15664, 15713, 15781, 15856, 17909, 18896.
- T4399 *Nelumbo nucifera* (Nymphaeaceae); HE YE DI; Hindu Lotus Leaf-base. Used part: leaf-base. TCM Effects: To clear summerheat and eliminate damp, dispel stasis and stanch bleeding, quiet fetus. TCM Indications: Summerheat-damp diarrhea, blood dysentery, flooding and spotting, stirring fetus in pregnancy. Isolated compounds: 14148, 15856, 18896.
- T4400 *Nelumbo nucifera* (Nymphaeaceae); LIAN ZI; Hindu Lotus Seed. Used part: seed. TCM Effects: To supplement spleen and check diarrhea, boost kidney and secure essence, nourish heart and quiet spirit. TCM Indications: Chronic diarrhea, inappetence, emission, restlessness, fright palpitation, insomnia, flooding and spotting, excessive leukorrhea. Isolated compounds: 1348, 1738, 3318, 5067, 12798, 12917, 15713, 15781, 15856, 17909.
- T4401 *Nelumbo nucifera* (Nymphaeaceae); LIAN ZI XIN; Hindu Lotus Plumule. Used part: dried plumule and radicle in seed. TCM Effects: To clear heart fire, clear liver fire, stanch bleeding, secure essence. TCM Indications: Heat entering pericardium, clouded spirit with delirious speech, non-interaction of heart and kidney, insomnia and emission, blood ejection due to blood heat, hypertension. Isolated compounds: 8120, 11491, 12798, 13010, 14252, 14253, 14593, 15321, 15856, 17909.
- T4402 *Nelumbo nucifera* (Nymphaeaceae); OU; Hindu Lotus Large Rhizome. Used part: rhizome. TCM Effects: To clear heat and engender liquid, cool blood, stanch bleeding and dissipate stasis. TCM Indications: Febrile diseases with vexation and thirst, blood ejection, spontaneous external bleeding, precipitate blood. Isolated compounds: 11716, 12714.
- T4403 *Nemacystus decipiens* [Syn. *Mesogloea decipiens*; *Cladosiphon decipiens*] (Spermatochneaceae); HAI YUN. Used part: frond. TCM Effects: To soften hardness and dissipate binds, disperse phlegm and disinhibit water. TCM Indications: Goiter and carcinoma of neck, thyroid enlargement, laryngitis, bronchitis. Isolated compounds: 16656, 22973.
- T4404 *Neoboutonia glabrescens* (Euphorbiaceae). Isolated compounds: 8492, 15346, 15398, 15399.
- T4405 *Neolitsea pulchella* (Lauraceae); MEI LI XIN MU JIANG ZI; Beautiful Newlitse. Isolated compounds: 15431.
- T4406 *Neolitsea sericea* (Lauraceae); ZHOU SHAN XIN MU JIANG ZI; Sericeous Newlitse. Isolated compounds: 2538.
- T4407 *Neolloydia texensis*. Isolated compounds: 15930.
- T4408 *Neonauclea sessilifolia* [Syn. *Nauclea sessilifolia*; *Adina sessilifolia*] (Rubiaceae); WU BING XIN WU TAN; Sessile Neonauclea. Isolated compounds: 8714, 18732.
- T4409 *Nepicrorhiza scrophulariiflora* (Scrophulariaceae). Isolated compounds: 19569, 19570.
- T4410 *Neorautanenia edulis*. Isolated compounds: 10059, 16499.
- T4411 *Neorautanenia pseudopachyrhiza*. Isolated compounds: 16499.
- T4412 *Nepenthes* sp. (Nepenthaceae). Isolated compounds: 9568.
- T4413 *Nepeta cataria* (Lamiaceae); JIA JING JIE; Catnip. Used part: whole herb. TCM Effects: To course wind and clear heat, quicken blood and stanch bleeding. TCM Indications: Externally contracted wind-heat, headache and sore pharynx, non-eruption of measles, blood ejection, spontaneous external bleeding, bleeding due to external injury, painful swelling from knocks and falls, poisonous snake bite. Isolated compounds: 3241, 3242, 5680, 7521, 11378, 11562, 15484, 15485, 15486, 15487, 15488.
- T4414 *Nepeta ciliaris* (Lamiaceae); YUAN MAO JING JIE; Ciliate Catnip. Isolated compounds: 17402.
- T4415 *Nepeta hindostana* (Lamiaceae); YIN DU JIA JING JIE; Indian Catnip\*. Isolated compounds: 7556, 9564.
- T4416 *Nepeta leucophylla* (Lamiaceae); BAI YE JING JIE; Whiteleaf Nepeta. Isolated compounds: 3464.  
*Nepeta tenuifolia* = *Schizonepeta tenuifolia*
- T4417 *Nephtea chabroli*; Softcoral *Nephtea chabroli*. Isolated compounds: 14114, 14226, 14227, 14228, 14234, 14300, 14643.
- T4418 *Nerium indicum* (Apocynaceae); JIA ZHU TAO; Sweetscented Oleander. Used part: leaf or bark. TCM Effects: To strengthen heart and disinhibit urine, dispel phlegm and settle asthma, settle pain, dispel stasis. TCM Indications: Congestive cardiac failure, cough and asthma, epilepsy, painful swelling from knocks and falls, amenorrhoea due to blood stasis. Isolated compounds: 400, 655, 4615, 4758, 8460, 15491, 16005, 16006, 16007, 16008, 16009, 20406.
- T4419 *Nerium odorum* (Apocynaceae). Isolated compounds: 15492, 15493.
- T4420 *Nerium oleander* (Apocynaceae); OU ZHOU JIA ZHU TAO; Common Oleander. Isolated compounds: 655, 15491, 15497, 16031.
- T4421 *Neurospora* spp. Isolated compounds: 17264.
- T4422 *Newbouldia laevis* (Bignoniaceae); FEI ZHOU ZI WEI; Africa Trumpetreepeper\*. Isolated compounds: 12501, 14429, 14430, 14431,

- 15518, 15519.
- T4423 *Nicandra physaloides* (Solanaceae); JIA SUAN JIANG; Apple of Peru. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel phlegm, calm. TCM Indications: Rabid dog bite, mental disease, epilepsy, wind-damp pain, sore and boil, common cold. Isolated compounds: 10835, 15521, 15522, 20369, 22051, 22701.
- T4424 *Nicotiana acuminata* (Solanaceae); JIAN XING YAN CAO; Acuminate Tobacco\*. Isolated compounds: 1124.
- T4425 *Nicotiana glutinosa* (Solanaceae); JIAO YAN CAO; Slimy Tobacco\*. Isolated compounds: 8794.
- T4426 *Nicotiana plumbaginifolia* (Solanaceae); HUI YE YAN CAO; Leadwordleaf Tobacco. Isolated compounds: 20064, 20065.
- T4427 *Nicotiana rustica* (Solanaceae); HUANG HUA YAN CAO; Aztec Tobacco. Isolated compounds: 15527.
- T4428 *Nicotiana tabacum* (Solanaceae); YAN CAO; Common Tobacco. Used part: leaf. TCM Effects: To move *qi* and relieve pain, resolve toxin and kill worms. TCM Indications: Food stagnation, *qi* bind pain, swelling abscess and flat abscess, clove sore, scab and lichen, snake bite, dog bite. Isolated compounds: 116, 1124, 1125, 1140, 3145, 4473, 4816, 4963, 6643, 6644, 11754, 15527, 16884, 18849, 19105, 19545, 20070, 20146, 21612, 22058.
- T4429 *Nierembergia hippomanica* (Solanaceae); MA ZHUANG SAI YA MA; Hippomane Cupflower\*. Isolated compounds: 16122.
- T4430 *Nigella arvensis* (Ranunculaceae); YE HEI ZHONG CAO; Devil-in-a-bush. Isolated compounds: 4614.
- T4431 *Nigella damascena* (Ranunculaceae); HEI ZHONG CAO; Jackinprison. Isolated compounds: 4614.
- T4432 *Nigella glandulifera* (Ranunculaceae); XIAN MAO HEI ZHONG CAO; Glandular Fennelflower. Used part: seed. TCM Effects: To quicken blood and free menstruation, disinhibit urine and remove stone, supplement kidney and fortify brain. TCM Indications: Menstrual disorder, menstrual block, scant breast milk, edema, urethral stone, dizziness and tinnitus, premature graying in beard and hair, cough and asthma, scab sore, white patch wind. Isolated compounds: 8043, 15562, 15567.
- T4433 *Nigella sativa* (Ranunculaceae); ZAI PEI HEI ZHONG CAO; Cultivated Fennelflower\*. Isolated compounds: 15563, 15564, 15565, 15566, 15568, 15569.
- T4434 *Niphogeton ternata* (Apiaceae). Isolated compounds: 196, 3556, 3560, 3561, 3856, 5658, 7707, 7709, 11001, 11462, 11578, 11601, 11834, 16458, 16488, 16597, 19430, 22774.
- T4435 *Nitraria schoberi* (Zygophyllaceae); DONG QIANG; Whitethorn\*. Isolated compounds: 15317.
- T4436 *Nitraria tangutorum* (Zygophyllaceae); BAI CI; Nitraria\*. Used part: fruit. TCM Effects: To fortify spleen and assisting movement, promote lactation, quiet spirit. TCM Indications: Reduced food intake due to spleen vacuity, indigestion, scant breast milk, neurasthenia. Isolated compounds: 22492.
- T4437 *Nolina recurvata* (Agavaceae); XIA WAN NUO LIN; Recurved Nolina\*. Isolated compounds: 15455, 15456.
- T4438 *Nostoc flagelliforme* (Nostocaceae); FA CAI; Hair Vegetable\*. Used part: frond. TCM Effects: To supplement blood, disinhibit urine, lower blood pressure, relieve cough and transform phlegm. TCM Indications: Blood vacuity of women, hypertension, cough with profuse phlegm. Isolated compounds: 15227.
- T4439 *Nothapodytes pittosporoides* MA BI MU; Pittosporumlike Nothapodytes. Used part: root cortex. TCM Effects: To dispel wind and disinhibit damp, rectify *qi* and dissipate cold. TCM Indications: Wind-cold-damp impediment, edema, mounting *qi* (hernia). Isolated compounds: 3053.
- T4440 *Nothofagus* sp. (Fagaceae). Isolated compounds: 17420.
- T4441 *Notholaena* sp. (Sinopteridaceae). Isolated compounds: 5969.
- T4442 *Notholaena* spp. (Sinopteridaceae). Isolated compounds: 17617. *Notholirion bulbuliferum* = *Notholirion hyacinthinum*
- T4443 *Notholirion hyacinthinum* [Syn. *Notholirion bulbuliferum*] (Liliaceae); JIA BAI HE; Hyacinth False-lily. Used part: small bulb. TCM Effects: To rectify *qi* and harmonize stomach, dispel wind and relieve cough. TCM Indications: Distending pain in stomach duct and abdomen, vomiting, wind-cold cough. Isolated compounds: 2907, 4135, 7424, 7768, 14254, 14499, 20059.
- T4444 *Nothopanax davidii* (Araliaceae); YI YE LIANG WANG CHA; David Falsepanax. Used part: bark. TCM Effects: To dispel wind and dissipate stasis, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, taxation damage and lumbago, knocks and falls, fracture, menstrual disorder. Isolated compounds: 533, 22915, 22916, 22917, 22918, 22919.
- T4445 *Notopterygium forbesii* [Syn. *Notopterygium franchetii*] (Apiaceae); KUAN YE QIANG HUO; Forbes Notopterygium. Used part: rhizome or root. TCM Effects: See *Notopterygium incisum*. TCM Indications: See *Notopterygium incisum*. Isolated compounds: 2308, 3045, 3195, 3237, 3936, 4550, 5080, 9407, 9512, 11462, 12843, 15146, 15645, 15647, 15843, 15973, 17055, 17376, 17377, 19099, 19687, 20990, 20992, 20995. *Notopterygium franchetii* = *Notopterygium forbesii*
- T4446 *Notopterygium incisum* (Apiaceae); QIANG HUO; Incised Notopterygium. Equivalent plant: *Notopterygium forbesii*. Used part: rhizome or root. TCM Effects: To dissipate cold and resolve exterior, dispel wind and eliminate damp, disinhibit joints, relieve pain. TCM Indications: Externally contracted wind-cold, headache without sweating, wind-cold-damp impediment, edema, toxin swelling of sores. Isolated compounds: 336, 934, 1048, 1278, 1279, 1520, 1598, 2310, 2545, 3936, 5080, 6537, 6725, 7466, 7708, 7768, 9044, 9486, 11462, 12800, 12843, 12891, 13571, 14335, 14336, 14485, 14486, 14610, 14629, 14742, 14744, 15203, 15645, 15647, 15843, 15844, 15845, 15926, 15927, 16066, 16257, 16823, 17077, 17376, 17377, 18739, 19983, 20280, 20446, 20990, 20992, 20998, 21349, 21595, 21976, 22332, 22775.
- T4447 *Notoseris rhombiformis* (Asteraceae); LING YE ZI JU; Rhombicleaf Purple-daisy. Isolated compounds: 15846.
- T4448 *Nuphar japonicum* (Nymphaeaceae); RI BEN PING PENG CAO; Japanese Cowlily\*. Isolated compounds: 5199, 15868, 15869, 15870, 16836.
- T4449 *Nuphar luteum* (Nymphaeaceae); OU ZHOU PING PENG CAO; European Cowlily. Isolated compounds: 5199, 21333.
- T4450 *Nuphar pumilum* (Nymphaeaceae); PING PENG CAO; Cowlily. Used part: rhizome. TCM Effects: To fortify spleen and boost lung, quicken

blood and regulate menstruation. TCM Indications: Reduced food intake due to spleen vacuity, *yin* vacuity cough, night sweating, blood stasis and dysmenorrhea, menstrual disorder, knocks and falls. Isolated compounds: 15868, 15871, 15872.

T4451 *Nuphar variegatum* (Nymphaeaceae); BAN YE PING PENG CAO; Variegated Cowlily. Isolated compounds: 15869, 15870, 21052.

T4452 *Nuxia sphaerocephala* (Loganiaceae). Isolated compounds: 56, 266, 2914, 2916, 2917, 4181, 6464, 9925, 9926, 10024, 10304, 10305, 10340, 10561, 16050, 16373, 16374, 19987, 20899.

T4453 *Nyctanthes arbor-tristis* (Oleaceae); YE HUA; Nightjasmine. Used part: branch-leaf. TCM Effects: To dispel wind and eliminate damp. Isolated compounds: 4249.

T4454 *Nymphaea caerulea* (Nymphaeaceae); LAN SHUI LIAN; Blue Waterlily. Isolated compounds: 491, 5023, 5024, 15173.

T4455 *Nymphaea lotus* (Nymphaeaceae); CHI YE SHUI LIAN; White Lotus, Egyptian Lotus. Isolated compounds: 15174, 15877, 15878.

T4456 *Nymphoides peltatum* (Gentianaceae); XING CAI; Shield Floatingheart. Used part: whole herb. TCM Effects: To effuse sweat and outthrust papules, disinhibit urine and free strangury, clear heat and resolve toxin. TCM Indications: Non-eruption of measles, edema, inhibited urination, heat strangury, toxin swelling of sores, poisonous snake bite. Isolated compounds: 18327.

T4457 *Nyssa sinensis* (Nyssaceae); ZI SHU; Chinese Tupelo. Used part: root. TCM Effects: Anticarcinoma. Isolated compounds: 15880.

T4458 *Nyssa sylvatica* (Nyssaceae); DUO HUA LAN GUO SHU; Manyflower Tupelo\*. Isolated compounds: 2922.

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T4459 Occurs in many fungi. Isolated compounds: 21467.

T4460 Occurs in many human foods. Isolated compounds: 22779.

T4461 Occurs in many plants. Isolated compounds: 530, 580, 663, 1048, 1110, 1113, 1476, 1935, 2309, 2550, 2887, 3004, 3040, 3045, 3241, 3242, 3308, 3498, 3551, 3615, 3695, 4135, 4550, 4680, 5763, 6757, 6776, 6853, 7250, 7521, 7523, 7768, 7788, 7883, 7951, 7996, 8095, 9234, 9486, 9646, 9669, 9818, 10870, 10887, 11031, 11085, 11642, 12018, 12020, 12843, 12891, 12893, 12917, 13098, 13126, 13137, 13374, 14889, 15203, 15279, 16050, 16439, 16555, 16901, 17376, 17869, 17876, 17893, 17905, 18317, 18411, 18643, 18860, 19087, 19540, 19542, 19777, 19912, 19983, 19987, 19993, 20030, 20168, 20280, 20369, 20444, 20446, 20566, 20995, 21415, 22169, 22172, 22195, 22253, 22270, 22336, 22581.

T4462 Occurs in wood. Isolated compounds: 10453.

T4463 *Ochna afzelii* (Ochnaceae). Isolated compounds: 681, 682, 683, 2984, 2985, 5662, 11512, 13000.

T4464 *Ochna calodendron* (Ochnaceae); KA MAI LONG JIN LIAN MU; Cameroon Ochna\*. Isolated compounds: 2986, 2987.

T4465 *Ochna integerrima* (Ochnaceae); JIN LIAN MU; Entire Ochna. Isolated compounds: 5683, 5684, 6311.

T4466 *Ochna macrocalyx* (Ochnaceae); CHANG E JIN LIAN MU PI; Macrocalyx Ochna Bark\*. Isolated compounds: 2985, 4045, 4985, 5551, 9518, 15916.

T4467 *Ochromonas malhamensis*; Protozoon *Ochromonas malhamensis*. Isolated compounds: 17729.

T4468 *Ochrosia confusa* (Apocynaceae); YI SI MEI GUI SHU; Confusable Ochrosia. Isolated compounds: 15924.

T4469 *Ochrosia elliptica* (Apocynaceae); GU CHENG MEI GUI SHU; Elliptical Ochrosia. Isolated compounds: 6759.

T4470 *Ocimum basilicum* (Lamiaceae); LUO LE; Basil. Used part: whole herb. TCM Effects: To course wind and resolve exterior, transform damp and harmonize center, move *qi* and quicken blood, resolve toxin and disperse swelling. TCM Indications: Common cold with headache, fever and cough, summerheat stroke, non-digestion of food accumulation, no thought of food and drink, distention fullness and pain in stomach duct and abdomen, vomiting and diarrhea, wind-damp impediment pain, emission, menstrual disorder, toothache, bad breath, damp-sore of skin, dormant papules with pruritus, knocks and falls, snake or insect bites. Isolated compounds: 1186, 2357, 3194, 7481, 7521, 7523, 8011, 11642, 13883, 14245, 19121.

T4471 *Ocimum basilicum* (Lamiaceae); LUO LE ZI; Basil Fruit. Used part: fruit. TCM Effects: To clear heat, brighten eyes, eliminate screens. TCM Indications: Red eyes and profuse eye discharge, ingrown eyelash, eye screen, galloping *gan* of teeth and gum. Isolated compounds: 8078, 13509, 17514.

T4472 *Ocimum canum* (Lamiaceae); ZHANG NAO LUO LE; Grey Basil. Isolated compounds: 13264.

T4473 *Ocimum gratissimum* (Lamiaceae); DING XIANG LUO LE; Sweetscented Basil. Isolated compounds: 16928.

T4474 *Ocimum kilimandscharicum* (Lamiaceae); FEI ZHOU LUO LE; African Basil\*. Isolated compounds: 20998.

T4475 *Ocimum selloi* (Lamiaceae); SAI LE LUO LE; Sello Basil\*. Isolated compounds: 1290.

T4476 *Ocimum* sp. (Lamiaceae). Isolated compounds: 7521.

T4477 *Ocotea bullata* (Lauraceae); NAN FEI ZHANG GUI. Isolated compounds: 11572, 15928, 19871.

T4478 *Octopus vulgaris* (Octopodidae); ZHANG YU; Common Atlantic Octopus. Used part: meat. TCM Effects: To nourish blood and free milk, resolve toxin, engender flesh. TCM Indications: Anemia and amenorrhea, postpartum scant milk, enduring sores. Isolated compounds: 20155.

T4479 *Odontites serotina* (Scrophulariaceae); CHI YE CAO; Lateripening Bartsia. Used part: whole herb. TCM Effects: To clear heat and dry damp, cool blood and relieve pain. TCM Indications: Febrile infectious diseases, depressed liver-gallbladder heat, pain of blood stasis. Isolated compounds: 2004, 15989.

T4480 *Oenanthe crocata* (Apiaceae); ZANG HONG HUA SE SHUI QIN; Hemlock Waterdropwort. Isolated compounds: 9363.

T4481 *Oenanthe javanica* (Apiaceae); QIN HUA; Javan Waterdropwort Flower. Used part: flower. TCM Indications: Spill pulse. Isolated compounds: 16990.

T4482 *Oenanthe javanica* (Apiaceae); SHUI QIN; Javan Waterdropwort. Used part: herb. TCM Effects: To clear heat and disinhibit water. TCM Indications: Fulminant fever with vexation and thirst, jaundice, edema, strangury, vaginal discharge, scrofula, epidemic parotitis. Isolated compounds: 2448, 2793, 5502, 11648, 20998.

T4483 *Oenothera tetraptera* (Onagraceae); SI CHI YUE JIAN CAO; Fourwing Eveningprimrose\*. Isolated compounds: 16012.

- T4484 *Olax* sp. (Olacaceae). Isolated compounds: 16025.  
*Oldenlandia chrysotricha* = *Hedyotis chrysotricha*  
*Oldenlandia corymbosa* = *Hedyotis corymbosa*
- T4485 *Oldenlandia diffusa* [Syn. *Hedyotis diffusa*] (Rubiaceae); BAI HUA SHE SHE CAO; Spreading Hedyotis. Equivalent plant: *Hedyotis corymbosa*. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Lung heat cough asthma, swelling pain in throat, intestinal welling abscess, swelling of sores and boils, poisonous snake bite, heat strangury with inhibited pain, edema, dysentery, enteritis, damp-heat jaundice, carcinoma. Isolated compounds: 1894, 4185, 4186, 12046, 13894, 13895, 16050, 16587, 18354, 18355, 18362, 18396, 20369, 22270.
- T4486 *Olea africana* (Oleaceae); FEI ZHOU GAN LAN; African Olive\*. Isolated compounds: 16088.
- T4487 *Olea europaea* (Oleaceae); YOU GAN LAN; Common Olive. Used part: fruit. TCM Effects: To moisten intestines and free stool, resolve toxin and close sores, lower blood pressure, lower blood-fat. TCM Indications: Intestinal dry and constipation, burns and scalds, coronary heart disease. Isolated compounds: 3686, 6747, 12488, 13581, 14163, 16050, 16080, 16088, 21413.
- T4488 *Oleandra wallichii* (Oleandraceae); GAO SHAN TIAO JUE; Alpine Oleandra. Isolated compounds: 630, 9642, 15405.
- T4489 *Ongokea gore* (Olacaceae); EN GE MU. Isolated compounds: 6271, 10554, 10555, 16097.
- T4490 *Onobrychis* spp. (Fabaceae). Isolated compounds: 12908.
- T4491 *Onobrychis viciifolia* (Fabaceae); LV DOU; Common Sainfoin. Isolated compounds: 3603, 3608, 3846, 4138, 4182, 4183, 8686, 11504, 11669, 13479, 14257, 14258, 15185, 18391, 19168, 22438.
- T4492 *Onoclea sensibilis* (Aspidiaceae); BEI MEI QIU ZI JUE; Bead Fern, Sensitive Fern. Isolated compounds: 18162.
- T4493 *Ononis spinosa* (Fabaceae); CI MANG BING HUA; Restharrow. Isolated compounds: 7883, 16117, 20901.
- T4494 *Onopordum acanthium* (Asteraceae); DA CHI JI; Scotch Cottonthistle. Used part: whole herb. TCM Effects: To stanch bleeding. Isolated compounds: 7278, 16119.
- T4495 *Onopordum alexandrinum* (Asteraceae); AI JI DA CHI JI; Egyptian Cottonthistle\*. Isolated compounds: 16119.
- T4496 *Onopordum algeriense* (Asteraceae); A ER JI ER DA CHI JI; Algerian Cottonthistle\*. Isolated compounds: 16119.
- T4497 *Onopordum illyricum* (Asteraceae); YI LI LI YA DA CHI JI; Illyrian Cottonthistle\*. Isolated compounds: 16119.
- T4498 *Onosma hispida* (Boraginaceae); CU YING MAO DIAN ZI CAO; Hispid Onosma\*. Isolated compounds: 1476, 1492, 2330, 5828, 6159, 7577, 16120, 16121.
- T4499 *Onosma hookeri* (Boraginaceae); XI HUA DIAN ZI CAO; Hooker Onosma. Isolated compounds: 514.
- T4500 *Onosma paniculatum* (Boraginaceae); DIAN ZI CAO; Paniculate Onosma. Used part: root or root cortex. TCM Effects: To clear heat, resolve toxin, cool blood, quicken blood. TCM Indications: Measles papules, pneumonia, febrile diseases macular eruption, ulcerating sores, eczema, scalds. Isolated compounds: 309, 514, 6302, 6303, 10266, 19819.
- T4501 *Onychium auratum* (Sinopteridaceae); *Onychium auratum*. Isolated compounds: 16098, 16697.
- T4502 *Onychium japonicum* [Syn. *Tricomanes japonicum*] (Sinopteridaceae); XIAO YE JI WEI; Japanese Clave Fern. Used part: whole herb or leaf. TCM Effects: To clear heat and resolve toxin, disinhibit damp, stanch bleeding. TCM Indications: Wind-heat common cold, cough, sore pharynx, diarrhea, dysentery, dribbling pain of urination, damp-heat jaundice, blood ejection, coughing of blood, hematochezia, bleeding from hemorrhoids, hematuria, sore toxin, knocks and falls, poisonous snake bites, burns and scalds. Isolated compounds: 16122, 16123, 18123, 18148.
- T4503 *Onychium lucidum* (Sinopteridaceae); LI BING JIN FEN JUE; Lucidum Onychium. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin, eliminate inflammation. TCM Indications: Common cold, stomachache, wind-damp pain, painful swelling from knocks and falls, bleeding due to external injury, cassava poisoning, arsenic poisoning. Isolated compounds: 13047.
- T4504 *Onychium siliculosum* (Sinopteridaceae); JIN FEN JUE; Siliculosum Onychium. Isolated compounds: 16098, 16101, 16102.
- T4505 *Ophiocephalus argus* (Ophiocephalidae); WU LI; Serpent-head. Used part: meat or whole fish. TCM Effects: To supplement spleen and fortify stomach, disinhibit water and disperse edema. TCM Indications: Edema, edema in pregnancy, damp impediment, beriberi, postpartum scant milk, habitual abortion, tuberculosis and vacuity, distention fullness in stomach duct, intestinal wind, bleeding from hemorrhoids, scab and lichen. Isolated compounds: 10660, 14490.  
*Ophioglossum flexuosum* = *Lygodium flexuosum*
- T4506 *Ophioglossum vulgatum* (Ophioglossaceae); PING ER XIAO CAO; Adder's Tongue. Used part: whole herb. TCM Effects: To clear heat and cool blood, resolve toxin and settle pain. TCM Indications: Lung heat cough, pulmonary welling abscess, tuberculosis with blood ejection, infant ardent fever, red eyes with gall, stomachache, swollen welling abscess and clove sores, painful swelling from knocks and falls. Isolated compounds: 14710.
- T4507 *Ophiopogon japonicus* (Liliaceae); MAI DONG; Liriope. Equivalent plant: *Liriope spicata* var. *prolifera*. Used part: tuberoid. TCM Effects: To nourish *yin* and engender liquid, moisten lung and clear heart. TCM Indications: Angina pectoris, dry cough due to lung dryness, vacuity consumption with cough, fluid damage and thirst, insomnia and vexation, diabetes mellitus due to internal heat, intestinal dry and constipation, diphtheria. Isolated compounds: 618, 875, 876, 2551, 2552, 2554, 4189, 5856, 6440, 7788, 9071, 10033, 10213, 10509, 11577, 11823, 14635, 14636, 16050, 16131, 16135, 16136, 16137, 16138, 16139, 16140, 16141, 16142, 16143, 16144, 16145, 16146, 16147, 16148, 16149, 16150, 16707, 19070, 19072, 19073, 20369, 21720, 21722, 21800, 22252.
- T4508 *Ophiopogon planiscapus* (Liliaceae); BIAN JING YAN JIE CAO; Flatstem Lilyturf\*. Isolated compounds: 19070, 19074.
- T4509 *Ophiorrhiza hayatana* (Rubiaceae); XIA YE SHE GEN CAO; Hayata Ophiorrhiza. Isolated compounds: 16132, 16133, 16134.
- T4510 *Ophiorrhiza japonica* (Rubiaceae); RI BEN SHE GEN CAO; Japanese Ophiorrhiza. Equivalent plant: *Ophiorrhiza mungos*. Used part: whole herb. TCM Effects: To relieve cough and dispel phlegm, quicken

- blood and regulate menstruation. TCM Indications: Cough, taxation damage and blood ejection, hematochezia, dysmenorrhea, menstrual disorder, pain in sinews and bones, sprain and contusion. Isolated compounds: 9234, 16151, 16152.
- T4511 *Ophiorrhiza kuroiwai* (Rubiaceae); HEI YAN SHE GEN CAO; Black-rock Ophiorrhiza\*. Isolated compounds: 16151, 16152.
- T4512 *Ophiorrhiza liukuensis* (Rubiaceae); LIU QIU SHE GEN CAO; Liuku Ophiorrhiza\*. Isolated compounds: 3053, 3551, 4680, 5097, 5205, 5210, 7040, 8758, 9234, 10887, 12949, 12950, 13168, 13863, 13864, 16151, 16152, 18199, 18918, 19542, 19983, 20390, 20503, 20513, 22270.
- T4513 *Ophiorrhiza mungos* (Rubiaceae); SHE GEN CAO; Common Ophiorrhiza. Used part: whole herb. TCM Effects: See *Ophiorrhiza japonica*. TCM Indications: See *Ophiorrhiza japonica*. Isolated compounds: 3053, 13863, 13864.
- T4514 *Ophiorrhiza pumila* (Rubiaceae); DUAN XIAO SHE GEN CAO; Dwarf Ophiorrhiza. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Common cold with fever, cough, swelling toxin of welling abscess and flat abscess, poisonous snake bites. Isolated compounds: 18199.
- T4515 *Opilia celtidifolia* (Opiliaceae); PU YE SHAN YOU ZI; Celtis-leaf Opilia\*. Isolated compounds: 18229.
- T4516 *Oplopanax elatus* (Araliaceae); DONG BEI CI REN SHEN; Northeast Spineginseng\*. Tall Oplopanax. Used part: root. TCM Effects: To supplement *qi* and reinforce *yang*, suppress cough, free network vessels, abate fever. TCM Indications: *Qi* vacuity and general weakness, fatigued spirit and lassitude, impotence, vacuity cough, wind-cold-damp impediment, diabetes mellitus, hypertension. Isolated compounds: 2858, 3737, 3738, 3739, 3740, 4680, 6837, 6981, 8611, 9273, 18739, 20569.
- T4517 *Oplopanax horridus* (Araliaceae); MEI ZHOU CI SHEN; American Spineginseng\*<sup>[</sup>Isolated compounds: 15939.
- T4518 *Oppopanax chironium* (Apiaceae); AO PA CAO. Used part: stem and root. TCM Effects: To resolve spasm, dispel phlegm.<sup>[5509]</sup> TCM Indications: Spasm, abundant phlegm, menstrual disorder.<sup>[5509]</sup> Isolated compounds: 2309, 9419, 11001, 15644, 17028, 22774.
- T4519 *Opuntia dillenii* (Cactaceae); XIAN REN ZHANG; Cholla. Equivalent plant: *Opuntia vulgaris*. Used part: root and stem. TCM Effects: To move *qi* and quicken blood, cool blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Stomachache, lump glomus, dysentery, throat pain, lung heat cough, tuberculosis and hemoptysis, blood ejection, bleeding from hemorrhoids, sores clove boil, mammary welling abscess, epidemic parotitis, skin lichen, snake or insect bites, scalds, frostbite. Isolated compounds: 5763, 7405, 7432, 7768, 12052, 12062, 13479, 14711, 16157, 16158, 16159, 16160, 18317, 18376, 19087, 22332.
- T4520 *Opuntia ficus-indica* (Cactaceae); LI GUO XIAN REN ZHANG; Prickly Pear. Used part: root and stem. TCM Effects: To clear lung and relieve cough, cool blood and resolve toxin. TCM Indications: Lung heat cough, tuberculosis and hemoptysis, dysentery, bleeding from hemorrhoids, mammary welling abscess, epidemic parotitis, swelling toxin of welling abscess and sore, burns and scalds, bald sores, scab and lichen, snake or insect bites. Isolated compounds: 11018, 17479.
- T4521 *Opuntia vulgaris* (Cactaceae); LV XIAN REN ZHANG; Common Prickly Pear. Used part: root and stem. TCM Effects: See *Opuntia dillenii*. TCM Indications: See *Opuntia dillenii*. Isolated compounds: 11252.
- T4522 *Orchis* sp. (Orchidaceae). Isolated compounds: 16168.
- T4523 *Oriciopsis glaberrima* (Orchidaceae). Isolated compounds: 16179, 16180, 16181, 16182, 21763.
- T4524 *Origanum majorana* (Lamiaceae); TIAN NIU ZHI; Sweet Marjoram. Isolated compounds: 1618, 7521.
- T4525 *Origanum syriacum* (Lamiaceae); XU LI YA NIU ZHI; Syria Origanum\*. Isolated compounds: 3233, 10763, 13748, 21363, 21364.
- T4526 *Origanum vulgare* (Lamiaceae); TU XIANG RU; Common Origanum. Used part: whole herb. TCM Effects: To resolve exterior, rectify *qi*, clear summerheat, disinhibit damp. TCM Indications: Common cold with fever, summerheat stroke, distention fullness in chest and diaphragm, vomiting diarrhea with abdominal pain, jaundice, edema, vaginal discharge, child *gan* accumulation, measles papules, itchy skin, swelling pain of sores, knocks and falls. Isolated compounds: 3231, 8313, 15286, 21360.
- T4527 *Orixa japonica* (Rutaceae); CHOU SHAN YANG; Japanese Orixa. Used part: root. TCM Effects: To clear heat and resolve exterior, move *qi* and relieve pain, dispel wind and disinhibit damp. TCM Indications: Wind-heat common cold, cough, throat pain, toothache, stomachache, pain in joints due to rheumatism, dysentery, innominate toxin swelling. Isolated compounds: 442, 2309, 3236, 7703, 11001, 11234, 11606, 11633, 11821, 12253, 12254, 14153, 14446, 15785, 16199, 16200, 16201, 16202, 16203, 16204, 16447, 17844, 17849, 20002.
- T4528 *Orixa* sp. (Rutaceae). Isolated compounds: 12254.
- T4529 *Ormosia dasycarpa* (Fabaceae). Isolated compounds: 16207.
- T4530 *Ormosia hosiei* (Fabaceae); HONG DOU; Hosie Ormosia. Used part: seed. TCM Effects: To rectify *qi* and quicken blood, clear heat and resolve toxin. TCM Indications: Mounting *qi*, *qi* pain in heart and stomach, amenorrhea due to blood stasis, innominate toxin swelling, clove sore. Isolated compounds: 14749, 16206.
- T4531 *Ormosia jamaicensis* (Fabaceae). Isolated compounds: 16207.
- T4532 *Ormosia panamensis* (Fabaceae). Isolated compounds: 16207.
- T4533 *Ormosia* spp. (Fabaceae). Isolated compounds: 16585.
- T4534 *Ornithogalum caudatum* (Liliaceae); HU YAN WAN NIAN QING; Whiplash Star-of-Bethlehem. Isolated compounds: 3328, 14437, 14438, 14439.
- T4535 *Ornithogalum saundersiae* (Liliaceae). Isolated compounds: 3576, 3577, 3580, 3581, 3582, 3583, 5899, 5900, 16265, 19408, 19409, 19410, 19411, 19412, 19413.
- T4536 *Orobanche coerulescens* (Orobanchaceae); LIE DANG; Skyblue Broomrape. Used part: whole plant. TCM Effects: To supplement kidney and invigorate *yang*, strengthen sinews and bones, moisten intestines. TCM Indications: Kidney vacuity impotence, emission, infertility due to uterus cold, rachitis in children, cold pain in lumbus and knees, weakness in sinews and bones, intestinal dry and constipation. Isolated compounds: 580, 2859, 4225, 11195, 14261, 16208.
- Orontium japonicum* = *Rohdea japonica*



- T4537 *Oroxylum indicum* (Bignoniaceae); MU HU DIE; Indian Trumpetflower. Used part: seed. TCM Effects: To clear lung and disinhibit throat, course liver and harmonize stomach. TCM Indications: Lung heat cough, throat impediment, aphonia, liver stomach *qi* pain. Isolated compounds: 967, 2102, 2103, 2104, 2106, 3600, 16215, 18001, 19582, 19587, 21212.
- T4538 *Oroxylum indicum* (Bignoniaceae); MU HU DIE SHU PI; Indian Trumpetflower Bark. Used part: bark. TCM Effects: To clear heat and disinhibit damp, abate jaundice, disinhibit throat and disperse swelling. TCM Indications: Infective hepatitis, swelling pain in throat. Isolated compounds: 2106, 16216, 19582, 19585.  
*Orthodon chinensis* = *Mosla chinensis*
- T4539 *Orthodon formosanus* (Lamiaceae); TAI WAN JI NING; Taiwan Mosla. Isolated compounds: 6193.
- T4540 *Orthodon hadai* (Lamiaceae); HA DA SHI JI NING; Hada Mosla\*. Isolated compounds: 3231.  
*Orthosiphon aristatus* = *Orthosiphon stamineus*  
*Orthosiphon grandiflorus* = *Orthosiphon stamineus*  
*Orthosiphon spicatus* = *Orthosiphon stamineus*
- T4541 *Orthosiphon stamineus* [Syn. *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (Lamiaceae); XIONG RUI ZHUANG ZHI GUAN CAO; Big-flowered Javatea. Isolated compounds: 4759, 4760, 4761, 5137, 7591, 10556, 10619, 12448, 15443, 15444, 15795, 15796, 16221, 16222, 16223, 16224, 16225, 16226, 16227, 16228, 16229, 16230, 16231, 16232, 16233, 16234, 16235, 16236, 16237, 16238, 16239, 16240, 16241, 16242, 16243, 16244, 16872, 19630, 19966, 19967, 19968, 19969, 19970, 20258, 20259, 20260, 20261, 21202.
- T4542 *Orthosiphon wulfenoides* [Syn. *Coleus wulfenoides*] (Lamiaceae); JI JIAO SHEN; Common Javatea. Used part: root. TCM Effects: To dispel wind and disinhibit damp, quicken blood and free network vessels, kill worms and disperse accumulation. TCM Indications: Wind-damp impediment pain, strangury, edema, knocks and falls, fracture, food accumulation abdominal distention, abdominal pain due to worm accumulation. Isolated compounds: 16220.
- T4543 *Orthosiphonia mexicana*. Isolated compounds: 16245.
- T4544 *Oryza sativa* (Poaceae); DAO CAO; Rice Straw. Used part: stem-leaf. TCM Effects: To loosen center, precipitate *qi*, disperse food, resolve toxin. TCM Indications: Dysphagia-occlusion, stomach reflux, food stagnation, abdominal pain, diarrhea, diabetes mellitus, jaundice, throat impediment, hemorrhoids, scalds. Isolated compounds: 1358, 3162, 4496, 7121, 7154, 7174, 7181, 7185, 7186, 13126, 13127, 15477, 16247, 16248, 17257, 17258, 17259, 17260, 17261, 22520.
- T4545 *Oryza sativa* (Poaceae); JING MI; Rice. Used part: seed. TCM Effects: To supplement *qi* and fortify spleen, eliminate vexation and allay thirst, check dysentery and diarrhea. TCM Indications: Spleen-stomach vacuity, reduced food intake, fatigue hypodynamia, vexation and thirst, diarrhea. Isolated compounds: 1358, 3040, 3199, 3585, 7768, 12802, 13126, 15355, 15458, 15477, 19463, 20237, 20369, 22520.
- T4546 *Oryza sativa* (Poaceae); MI PI KANG; Rice Spermoderm. Used part: spermoderm. TCM Effects: To increase appetite, precipitate *qi*. TCM Indications: Dysphagia-occlusion, beriberi. Isolated compounds: 3041, 3586, 4470, 4475, 5714, 5715, 7768, 14267, 14353, 15867, 19995, 20237, 20376, 22557.
- T4547 *Oryza sativa* cv (Poaceae); HEI SE MI PI KANG; Black Rice Spermoderm\*. TCM Effects: To increase appetite, precipitate *qi*. TCM Indications: Dysphagia-occlusion, stomach reflux, leg *qi* [=beriberi]. Isolated compounds: 16246.
- T4548 *Oryza sativa* var. *glutinosa* (Poaceae); NUO DAO; Sticky Rice. Used part: kernel without shell. TCM Effects: To supplement center and boost *qi*, fortify spleen and check diarrhea, reduce urine, constrain sweat, resolve toxin. TCM Indications: Diarrhea due to spleen-stomach vacuity cold, cholera with vomiting of sour matter, diabetes mellitus with profuse urination, spontaneous sweating, variola, hemorrhoids. Isolated compounds: 11032.
- T4549 *Osbeckia chinensis* (Melastomataceae); JIN JIN XIANG; Chinese Osbeckia. Used part: whole herb or root. TCM Effects: To transform phlegm and disinhibit damp, dispel stasis and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Cough, asthma, child *gan* accumulation, diarrhea and dysentery, wind-damp impediment pain, hemoptysis, spontaneous external bleeding, blood ejection, hemochezia, flooding and spotting [=metrorrhagia and metrostaxis], dysmenorrhea, menstrual block, postpartum stasis stagnation abdominal pain, toothache, prolapse of rectum, wound swelling from knocks and falls, poisonous snake bites. Isolated compounds: 16250.
- T4550 *Osmanthus fragrans* (Oleaceae); GUI HUA; Sweet Osmanthus. Used part: flower. TCM Effects: To warm lung and transform rheum, dissipate cold and relieve pain. TCM Indications: Phlegm-rheum cough asthma, cold pain in stomach duct and abdomen, intestinal wind blood dysentery, amenorrhea and dysmenorrhea, cold mounting with abdominal pain, toothache, bad breath. Isolated compounds: 5646, 12853, 15498, 15926.
- T4551 *Osmorhiza aristata* var. *laxa* (Apiaceae); XIANG GEN QIN; Laxleaf Sweetroot. Used part: root. TCM Effects: To dissipate cold and effuse exterior, relieve pain, fortify stomach, brighten eyes. TCM Indications: Wind-cold common cold, vertex headache, generalized pain. Isolated compounds: 945, 1186, 1282, 6209.
- T4552 *Osmunda japonica* (Osmundaceae); ZI QI; Japanese Osmunda Frond. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dispel stasis and stanch bleeding, kill worms. TCM Indications: Influenza, epidemic encephalitis, parotitis, swelling toxin of welling abscess and sore, measles papules, varicella, dysentery, blood ejection, spontaneous external bleeding, hemochezia, flooding and spotting, vaginal discharge, intestinal parasitic disease. Isolated compounds: 6678, 6679, 14506, 16255, 16256, 16658, 17700, 20444.
- T4553 *Osmunda ragalis* (Osmundaceae); OU ZI QI; Flowering Fern. Isolated compounds: 16256.
- T4554 *Ostodes paniculata* (Euphorbiaceae); YUAN ZHUI HUA YE LUN MU; Paniculate Ostodes\*. Isolated compounds: 16262.
- T4555 *Ostrea rivularis*; *Ostrea taliemwhanensis*; *Ostrea gigas* (Ostreidae); MU LI ROU; Oyster Meat. Used part: meat. TCM Effects: To nourish blood and quiet spirit, soften hardness and disperse swelling. TCM Indications: Heat vexation and insomnia, disquieted heart spirit, scrofula. Isolated compounds: 8785, 14665, 14666.
- T4556 *Osyris tenuifolia* (Santalaceae); XIAO HUA SHA ZHEN; East African Sandalwood. Isolated compounds: 2409, 12467, 20937, 20938.

- T4557 *Otostegia fruticosa* (Lamiaceae); GUAN MU AO TUO SI TE CAO; Shrubby Otostegia\*. Isolated compounds: 16272.
- T4558 *Otostegia integrifolia* (Lamiaceae); QUAN YUAN YE AO TUO SI TE CAO; Integrifolious Otostegia\*. Isolated compounds: 2045, 16273, 17845.
- T4559 *Otostegia limbata* (Lamiaceae); YOU YAN AO TUO SI TE CAO; Limbate Otostegia. Isolated compounds: 7835, 12834, 12835.
- T4560 *Ouratea flava* (Ochnaceae); HUANG SAI JIN LIAN MU; Yellow Ouratea\*. Isolated compounds: 7822, 7823.
- T4561 *Ouratea hexasperma* (Ochnaceae); LIU ZI SAI JIN LIAN MU; Hexaseed Ouratea\*. Isolated compounds: 9518.
- T4562 *Oxalis acetosella* (Oxalidaceae); SHAN ZUO JIANG CAO; Wood-sorrel. Used part: whole herb. TCM Effects: To quicken blood and transform stasis, clear heat and resolve toxin, disinherit urine and free strangury. TCM Indications: Taxation damage and pain, knocks and falls, leprosy, innominate toxin swelling, scab and lichen, infant mouth sore, burns and scalds, strangury-turbidity, vaginal discharge, urinary stoppage. Isolated compounds: 22122.
- T4563 *Oxalis cernua* (Oxalidaceae). Isolated compounds: 3432.
- T4564 *Oxalis corniculata* [Syn. *Oxalis repens*] (Oxalidaceae); ZUO JIANG CAO; Creeping Oxalis. Used part: whole herb. TCM Effects: To clear heat and disinherit damp, cool blood and dissipate stasis, resolve toxin and disperse swelling. TCM Indications: Damp-heat diarrhea, dysentery, jaundice, strangury syndrome, vaginal discharge, blood ejection, spontaneous external bleeding, hematuria, menstrual disorder, knocks and falls, swelling pain in throat, swollen welling abscess and clove sores, erysipelas, eczema, scab and lichen, hemorrhoids, measles papules, burns and scalds, snake or insect bites. Isolated compounds: 16893, 18281, 21413.  
*Oxalis repens* = *Oxalis corniculata*
- T4565 *Oxalis* sp. (Oxalidaceae). Isolated compounds: 16285.
- T4566 *Oxystelma esculentum* var. *alpini* (Asclepiadaceae); BIAN ZHONG JIAN HUI TENG; Edible Oxystelma Variety\*. Isolated compounds: 990, 991, 992.
- T4567 *Oxytropis campestris* (Fabaceae); TIAN YE JI DOU; Yellow Oxytropis. Isolated compounds: 23000.
- T4568 *Oxytropis myriophylla* (Fabaceae); DUO YE JI DOU; Leafy Crazyweed. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and stanch bleeding. TCM Indications: Influenza, swelling pain in throat, swelling toxin of welling abscess and sore, knocks and falls, static blood swelling and distention, various hemorrhage. Isolated compounds: 9275, 15193, 15194, 15195, 15196, 15197, 15198, 15199, 15200, 15201, 16479.
- T4569 *Oyadea verbesinoides*. Isolated compounds: 1216.
- P**
- T4570 *Pachydictyon coriaceum* (Dictyotaceae); HOU WANG ZAO. Isolated compounds: 16495.
- T4571 *Pachypodanthium staudii* (Annonaceae); SI TUO HOU BING HUA. Isolated compounds: 16511.
- T4572 *Pachyrhizus erosus* (Fabaceae); DI GUA ZI; Wayaka Yambean Seed. Used part: seed. TCM Effects: To kill worms and relieve itch. TCM Indications: Scab and lichen, itchy skin, swollen welling abscess. Isolated compounds: 4954, 6551, 7289, 7290, 10059, 10589, 10680, 10681, 15462, 18939.
- T4573 *Pachyrhizus erosus* (Fabaceae); DOU SHU; Wayaka Yambean. Used part: tuberoid. TCM Effects: To clear lung and engender liquid, disinherit urine and free milk, resolve liquor toxin. TCM Indications: Lung heat cough, pulmonary welling abscess, summerheat stroke with vexation and thirst, diabetes mellitus, scant breast milk, inhibited urination [=dysuria]. Isolated compounds: 6551, 6632, 10059, 16499, 16500, 18939.
- T4574 *Pachysandra procumbens* (Buxaceae); YANG WO BAN DENG GUO; Prostrate Pachysandra\*. Isolated compounds: 6322, 21968.
- T4575 *Pachysandra terminalis* (Buxaceae); XUE SHAN LIN; Japanese Pachysandra. Used part: whole herb with root. TCM Effects: To dispel wind-damp, soothe sinews and quicken blood, free menstruation and check discharge. TCM Indications: Wind-damp-heat impediment, systemma, menstrual disorder, Vaginal discharge. Isolated compounds: 4767, 5461, 6989, 6990, 6991, 6992, 6993, 6994, 6995, 6996, 14650, 16501, 16502, 16503, 16504, 16505, 16506, 16507, 16508, 16509, 16510, 16512, 16513, 20205, 20976.
- T4576 *Paederia chinensis* (Rubiaceae); ZHONG HUA JI SHI TENG; Chinese Fevervine. Isolated compounds: 17089.
- T4577 *Paederia scandens* (Rubiaceae); JI SHI TENG; Fevervine. Used part: whole herb or root. TCM Effects: To dispel wind and eliminate damp, disperse food and transform accumulation, resolve toxin and disperse swelling, quicken blood and relieve pain. TCM Indications: Wind-damp pain, diarrhea, dysentery, pain in stomach duct and abdomen, *qi* vacuity edema, heavy head and low food intake, liver spleen enlargement, scrofula, intestinal welling abscess, innominate toxin swelling, knocks and falls. Isolated compounds: 1618, 1892, 4659, 6196, 6197, 7779, 7780, 9740, 16514, 16515, 16516, 16517, 19454.
- T4578 *Paederia scandens* (Rubiaceae); JI SHI TENG GUO; Fevervine Fruit. Used part: fruit. TCM Effects: To resolve toxin and engender flesh. TCM Indications: Poisonous insect stings, frostbite. Isolated compounds: 4814, 9740, 16050.
- T4579 *Paederota lutea*. Isolated compounds: 16518, 20252.
- T4580 *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (Ranunculaceae); BAI SHAO; Common Peony. Used part: root. TCM Effects: To calm liver and relieve pain, nourish blood and regulate menstruation, constrain *yin* and check sweating. TCM Indications: Headache and dizziness, pain in rib-side, abdominal pain, spasm in limbs, anemia with yellow complexion, menstrual disorder, profuse menstruation, spontaneous sweating, night sweating. Isolated compounds: 857, 861, 2224, 2266, 3301, 3302, 5249, 7518, 7518, 8095, 8108, 8116, 8117, 9502, 14743, 16455, 16519, 16520, 16521, 16522, 16523, 16524, 16525, 16526, 16527, 16528, 16532, 16539, 16765, 16836, 16836, 16905, 17089, 18255, 18256, 19983, 20389, 20910, 21053, 21641, 21642, 21643.
- T4581 *Paeonia arborea* (Ranunculaceae); QIAO MU SHAO YAO; Arboreous Peony. Isolated compounds: 16533, 16534.
- T4582 *Paeonia delavayi* (Ranunculaceae); DIAN MU DAN; Delavay Peony. Used part: root cortex. TCM Effects: See *Paeonia moutan*. TCM Indications: See *Paeonia moutan*. Isolated compounds: 16525.
- T4583 *Paeonia emodi* (Ranunculaceae); DUO HUA SHAO YAO; Himalayan

- Peony. Isolated compounds: 8095, 9818, 14454, 16529, 16530, 16531.  
*Paeonia lactiflora* = *Paeonia albiflora*
- T4584 *Paeonia lactiflora* wild (Ranunculaceae); CHI SHAO wild; Common Peony (wild). Equivalent plant: *Paeonia obovata*, *Paeonia veitchii*. Used part: root. TCM Effects: To clear heat and cool blood, quicken blood and dispel stasis. TCM Indications: Warm toxin macular eruption, blood ejection, spontaneous external bleeding, intestinal wind bleeding, red eyes with gall, swollen welling abscess and sores, amenorrhea, dysmenorrhea, flooding and vaginal discharge with strangury-turbidity, pain in rib-side due to stagnation, mounting-conglomeration accumulation-gathering, knocks and falls. Isolated compounds: 857, 2224, 4680, 5483, 7518, 12439, 16455, 16524, 16525, 16532, 17378, 19983, 21053.
- T4585 *Paeonia moutan* [Syn. *Paeonia suffruticosa*] (Ranunculaceae); MU DAN PI; Subshrubby Peony Bark. Equivalent plant: *Paeonia delavayi*. Used part: root cortex. TCM Effects: To clear heat and cool blood, quicken blood and dissipate stasis. TCM Indications: Appendicitis, dysentery, hypertension, allergic rhinitis, warm heat disease with fever, macular eruption, blood ejection, spontaneous external bleeding, steaming bone tidal fever due to *yin* vacuity, amenorrhea due to blood stasis, dysmenorrhea, concretion and conglomeration, swelling toxin of welling abscess and sore, painful wound from knocks and falls, wind-damp-heat impediment. Isolated compounds: 1524, 2263, 2266, 8095, 16455, 16525, 16532, 16533, 16534, 16836, 20451, 20452, 20453, 20454, 20455.
- T4586 *Paeonia obovata* (Ranunculaceae); CAO SHAO YAO; Obovate Peony. Used part: root. TCM Effects: See *Paeonia lactiflora* wild. TCM Indications: See *Paeonia lactiflora* wild. Isolated compounds: 16455, 16525, 16533.
- T4587 *Paeonia officinalis* (Ranunculaceae); YAO YONG MU DAN; Kingsbloom. Isolated compounds: 16525.
- T4588 *Paeonia* sp. (Ranunculaceae). Isolated compounds: 3454.
- T4589 *Paeonia* spp. (Ranunculaceae). Isolated compounds: 16905.  
*Paeonia suffruticosa* = *Paeonia moutan*
- T4590 *Paeonia veitchii* (Ranunculaceae); CHUAN CHI SHAO; Veitch Peony. Used part: root. TCM Effects: See *Paeonia lactiflora* wild. TCM Indications: See *Paeonia lactiflora* wild. Isolated compounds: 16455, 16525, 19986.
- T4591 *Paepalanthus bromelioides* (Eriocaulaceae). Isolated compounds: 16535.
- T4592 *Paepalanthus denudatus* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4593 *Paepalanthus hilareii* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4594 *Paepalanthus latipes* (Eriocaulaceae). Isolated compounds: 13902, 18311, 18312, 18313, 18314, 18315.
- T4595 *Paepalanthus polyanthus* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4596 *Paepalanthus ramosus* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4597 *Paepalanthus robustus* (Eriocaulaceae). Isolated compounds: 13981, 14082.
- T4598 *Paepalanthus vellozioides* (Eriocaulaceae). Isolated compounds: 18311, 18312, 18313, 18314, 18315.
- T4599 *Panax ginseng* [Syn. *Panax schinseng*] (Araliaceae); REN SHEN; Ginseng. Used part: root. TCM Effects: To supplement original *qi* greatly, restore pulse and stem desertion, supplement spleen and boost lung, engender liquid, quiet spirit, lower blood sugar levels. TCM Indications: *Qi* vacuity and verging on desertion, cold limbs and faint pulse, reduced food intake due to spleen vacuity, cough and asthma due to lung vacuity, fluid damage and thirst, diabetes mellitus due to internal heat, enduring illness *qi* vacuity, fright palpitation and insomnia, impotence, uterus cold, cardiac failure. Isolated compounds: 617, 618, 626, 928, 1534, 1608, 1674, 2352, 2395, 2412, 2849, 2851, 2852, 2943, 3040, 3242, 3354, 3522, 3523, 3565, 3589, 3766, 4680, 5178, 5371, 5403, 6360, 6522, 6541, 6720, 6741, 6742, 6743, 7104, 7730, 7852, 7971, 8409, 8410, 8411, 8412, 8413, 8414, 8415, 8416, 8417, 8418, 8419, 8420, 8421, 8422, 8423, 8424, 8425, 8426, 8427, 8428, 8429, 8430, 8431, 8432, 8434, 8435, 8436, 8437, 8438, 8439, 8445, 8446, 8447, 8448, 8449, 8450, 8451, 8452, 8453, 8755, 8761, 8906, 9041, 9071, 9088, 9378, 9379, 9485, 9486, 9669, 9670, 11332, 11333, 11334, 11335, 12020, 12891, 13284, 13419, 13441, 13442, 13443, 13444, 13454, 13507, 13508, 13922, 15140, 15368, 15369, 15411, 15528, 15660, 15836, 15839, 15973, 16560, 16582, 16583, 16588, 16589, 16590, 16591, 16592, 16593, 16594, 16595, 16596, 16597, 16599, 16707, 16830, 17981, 17982, 18025, 18230, 18281, 18450, 18526, 18739, 18834, 19187, 19306, 19681, 19686, 19687, 19688, 19983, 19989, 19990, 19991, 20146, 20147, 20369, 20373, 20374, 20375, 20378, 20444, 20446, 20715, 21040, 21610, 21634, 22252, 22554, 22556, 22659, 22843.
- T4600 *Panax ginseng* [Syn. *Panax schinseng*] (Araliaceae); REN SHEN HUA LEI; Ginseng Buds. Used part: bud. TCM Effects: To supplement original *qi* greatly, supplement spleen and boost lung, engender liquid and allay thirst, quiet spirit and boost wits. TCM Indications: *Qi* vacuity and verging on desertion, spleen vacuity and fatigued body, inappetence, vomiting, diarrhea, lung vacuity and shortness of breath, cough, hasty asthma, vacuity and profuse sweating, fluid damage and thirst, diabetes mellitus, insomnia and frequent dreaming, fright palpitation and amnesia, anemia with yellow complexion, kidney vacuity impotence, frequent urination, *qi*-blood fluids vacuity depletion. Isolated compounds: 17982.
- T4601 *Panax ginseng* [Syn. *Panax schinseng*] (Araliaceae); REN SHEN LU; Ginseng Reed. Used part: rhizome. TCM Effects: To upbear *yang* and raise fall. TCM Indications: Spleen vacuity *qi* fall, enduring diarrhea, prolapse of rectum. Isolated compounds: 18277.
- T4602 *Panax ginseng* [Syn. *Panax schinseng*] (Araliaceae); REN SHEN YE; Ginseng Leaf. Used part: leaf. TCM Effects: To clear heat and resolve summerheat, engender liquid and allay thirst. TCM Indications: Summerheat-heat and thirst, febrile diseases fluid damage, stomach *yin* insufficiency, diabetes mellitus, dry cough due to lung dryness, vacuity-fire toothache. Isolated compounds: 8433, 8440, 8441, 8442, 8443, 8444, 16587.
- T4603 *Panax ginseng* x *P. quinquefolium* (Araliaceae); REN SHEN XI YANG SHEN ZA JIAO ZHONG. Isolated compounds: 9375.
- T4604 *Panax japonicus* var. *bipinnatifidus* (Araliaceae); YU YE SAN QI; Bipinnatifid Ginseng. Used part: rhizome. TCM Effects: To stanch

- bleeding and dissipate stasis, disperse swelling and settle pain. TCM Indications: Blood ejection, hemoptysis, spontaneous external bleeding, hematochezia, hematuria, blood dysentery, flooding and spotting, bleeding due to external injury, menstrual disorder, amenorrhea, postpartum blood stasis abdominal pain, painful swelling from knocks and falls, taxation damage and lumbago, chest and rib-side pain, pain in stomach duct, sores. Isolated compounds: 8423, 8425, 13404, 13405.
- T4605 *Panax japonicus* var. *major* (Araliaceae); QIN LING ZHU ZI SHEN; Largeleaf Japanese Ginseng. Used part: rhizome. TCM Effects: To clear heat and nourish *yin*, stanch bleeding and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Febrile diseases with vexation and thirst, lung heat cough due to *yin* vacuity, hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, hematuria, flooding and spotting, bleeding due to external injury, wound swelling from knocks and falls, wind-damp impediment pain, stomachache, menstrual disorder, wind-fire toothache, swelling pain in throat, swelling pain of welling abscess and sore. Isolated compounds: 8427, 13404, 13405, 13407, 13408, 16048.
- Panax notoginseng* = *Panax pseudo-ginseng* var. *notoginseng*
- T4606 *Panax pseudo-ginseng* (Araliaceae); ZANG SAN QI; Tibet Ginseng. Used part: tuberoid. TCM Effects: To transform stasis and stanch bleeding, disperse swelling and settle pain. TCM Indications: Blood ejection, spontaneous external bleeding, blood dysentery, flooding, postpartum persistent flow of lochia, knocks and falls. Isolated compounds: 8816.
- T4607 *Panax pseudo-ginseng* var. *japonicus* (Araliaceae); ZHU JIE SAN QI; Japanese Ginseng. Used part: rhizome. TCM Effects: To supplement vacuity, relieve cough and dispel phlegm, stanch bleeding and dissipate stasis, disperse swelling and relieve pain. TCM Indications: Weakness during convalescence, inappetence, vacuity taxation cough, hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, hematuria, aberratio mensium, flooding and spotting, bleeding due to external injury, concretion and conglomeration, amenorrhea due to blood stasis, postpartum stasis stagnation abdominal pain, knocks and falls, pain in joints due to rheumatism, swollen welling abscess, hemorrhoids, poisonous snake bite. Isolated compounds: 1608, 8423, 8425, 8426, 8427, 8428, 8430, 8445, 8755, 13405, 13443, 15822, 15823, 15824, 15825, 15836, 15839, 15840, 18025, 18026, 22483, 22484, 22485, 22893, 22894, 22895, 22896, 22897, 22898, 22899, 22900, 22901, 22902.
- T4608 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (Araliaceae); SAN QI; Sanchi. Used part: root. TCM Effects: To stanch bleeding and dissipate stasis, disperse swelling and settle pain. TCM Indications: Hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting, bleeding due to external injury, angina pectoris, stabbing pain in chest and abdomen, painful swelling from knocks and falls. Isolated compounds: 115, 1058, 2804, 2852, 3242, 4029, 4367, 4463, 4464, 4489, 4500, 4501, 4505, 4506, 4507, 4508, 4509, 4510, 4526, 4527, 4528, 4534, 4577, 4680, 5105, 5416, 6189, 6301, 6319, 6522, 6523, 6534, 6720, 6741, 6742, 6795, 6800, 7469, 7476, 8423, 8424, 8426, 8427, 8428, 8430, 8435, 8605, 8646, 8651, 9041, 9042, 9088, 9359, 9360, 9378, 9485, 9486, 11285, 14484, 14528, 14709, 15140, 15671, 15684, 15818, 15819, 15820, 15821, 15824, 15825, 15826, 15827, 15828, 15829, 15830, 15831, 15832, 15836, 15837, 15838, 15839, 15840, 16594, 16595, 16597, 16598, 16599, 16830, 18317, 18446, 18447, 18448, 18449, 18451, 19233, 19983, 20369, 21040, 21197, 21621, 21628, 22830.
- T4609 *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*] (Araliaceae); SAN QI HUA LEI; Sanchi Buds. Used part: flower. TCM Effects: To clear heat and engender liquid, calm liver and lower blood pressure. TCM Indications: Fluid damage and thirst, aphonia due to throat pain, hypertension. Isolated compounds: 8423, 8424, 8425, 8426, 8427, 9130, 9134, 15821, 15822, 15833, 15834, 15835, 15841, 15842, 16598, 19987, 20367, 20372.
- T4610 *Panax quinquefolium* (Araliaceae); XI YANG SHEN; American Ginseng. Used part: root. TCM Effects: To supplement *qi* and nourish *yin*, clear fire and engender liquid. TCM Indications: *Qi* vacuity, *yin* depletion and effulgent fire, cough and asthma with phlegm-blood, vacuity heat and vexation fatigue, diabetes mellitus due to internal heat, thirst with dry throat. Isolated compounds: 479, 2412, 2943, 3139, 3140, 3242, 4390, 4498, 4672, 6522, 6541, 6795, 7730, 8419, 8423, 8424, 8425, 8426, 8427, 8428, 8429, 8430, 8431, 8435, 8445, 8452, 9485, 9486, 11421, 12856, 12891, 13441, 13443, 13444, 14214, 15684, 15977, 16586, 16597, 16619, 16620, 16621, 16850, 17088, 17104, 17105, 17106, 17107, 17108, 17109, 17124, 17128, 17137, 17138, 17139, 17752, 18190, 18445, 18450, 20280, 20446, 21870, 22825.
- T4611 *Panax quinquefolium* (Araliaceae); XI YANG SHEN JING YE; American Ginseng Stem-leaf. Isolated compounds: 4617, 4619, 4620, 4621.
- Panax schinseng* = *Panax ginseng*  
*Pancovia delavayi* = *Sapindus delavayi*
- T4612 *Panacratium biflorum* (Amaryllidaceae); QUAN NENG HUA; Twoflower Panacratium. Isolated compounds: 2369, 17850.
- Panacratium littoralis* = *Hymenocallis littoralis*
- T4613 *Panacratium maritimum* (Amaryllidaceae). Isolated compounds: 22040.
- T4614 *Panda oleosa*. Isolated compounds: 16602.
- T4615 *Pandanus boninensis* (Pandanaceae). Isolated compounds: 14268, 14273.
- T4616 *Pandanus tectorius* (Pandanaceae); LU DOU LE HUA; Thatch Screwpine Flower. Used part: flower. TCM Effects: To clear heat, disinhibit water. TCM Indications: Common cold with cough, strangury-turbidity, inhibited urination, heat diarrhea, mounting *qi*, mouth-level nape sore. Isolated compounds: 6482, 12843, 14672, 17111.
- T4617 *Panellus serotinus* (Tricholomataceae); HOU SHU SHAN GU; Mukitake (in Japanese). Isolated compounds: 6898, 6899, 6900, 9487, 15943.
- T4618 *Panicum miliaceum* (Poaceae); SHU MI; Broomcorn Millet. Used part: seed. TCM Effects: To supplement center and boost *qi*, eliminate vexation and allay thirst, resolve toxin. TCM Indications: Diarrhea and dysentery, vexation and thirst, retching with counterflow, cough, stomachache, goose-mouth sore, sore and welling abscess, scalds. Isolated compounds: 4672, 11503, 14851.

- T4619 *Panulirus* sp. (Palinuridae). Isolated compounds: 3585.
- T4620 *Papaver album* (Papaveraceae); BAI HUA YING SU; White Poppy\*. Isolated compounds: 16623.
- T4621 *Papaver alpinum* (Papaveraceae); GAO SHAN YING SU; Alpine Poppy. Isolated compounds: 1094, 16625.
- T4622 *Papaver auranticum* (Papaveraceae); JU HUANG YING SU; Orange Poppy\*. Isolated compounds: 1097.
- T4623 *Papaver bracteatum* (Papaveraceae); DA HONG YING SU; Bracteate Poppy\*. Isolated compounds: 3885, 4121, 7837, 14251, 15449, 16625.
- T4624 *Papaver caucasicum* (Papaveraceae); GAO JIA SUO YING SU; Caucasian Poppy\*. Isolated compounds: 1738, 16625.
- T4625 *Papaver commutatum* [Syn. *Papaver rhoeas*] (Papaveraceae); LI CHUN HUA; Corn Poppy. Used part: whole herb, flower or fruit. TCM Effects: To suppress cough, settle pain, check diarrhea. TCM Indications: Cough, migraine, abdominal pain, dysentery. Isolated compounds: 3498, 5768, 9830, 11344, 11677, 13632, 14981, 15266, 16624, 16625, 16627, 16628, 18816, 18817, 19284, 19908, 21292, 21292.
- T4626 *Papaver dubium* (Papaveraceae); CHANG GUO YING SU; Long-headed Poppy. Isolated compounds: 7980, 16625.
- T4627 *Papaver dubium* var. *glabrum* (Papaveraceae). Isolated compounds: 16446.
- T4628 *Papaver fugax* (Papaveraceae); YI XIAN YING SU; Fugacious Poppy\*. Isolated compounds: 7980, 13631.
- T4629 *Papaver nudicaule* (Papaveraceae); YE YING SU; Iceland Poppy. Equivalent plant: *Papaver nudicaule* ssp. *amurense*. Used part: fruit shell or whole herb with flower. TCM Effects: To constrain lung and relieve cough, astringe intestines and check diarrhea, settle pain. TCM Indications: Enduring cough and asthma, diarrhea, hematochezia, prolapse of rectum, emission, vaginal discharge, headache, stomachache, dysmenorrhea. Isolated compounds: 1098, 1099, 3502, 5283, 16625.
- T4630 *Papaver nudicaule* ssp. *amurense* (Papaveraceae); HEI SHUI YE YING SU; Amur Poppy. Used part: fruit shell or whole herb with flower. TCM Effects: See *Papaver nudicaule*. TCM Indications: See *Papaver nudicaule*. Isolated compounds: 1094, 1097, 1100, 1101, 15079.
- T4631 *Papaver nudicaule* var. *chinense* (Papaveraceae); LIE YE YE YING SU; Splidleaf Poppy\*. Used part: fruit shell or whole herb. TCM Effects: To constrain lung and relieve cough, astringe intestines and check diarrhea, settle pain. TCM Indications: Enduring cough and asthma, enduring diarrhea, enduring dysentery, headache, stomachache, pain in heart and abdomen, wind-damp impediment pain, knocks and falls. Isolated compounds: 1096, 1100, 15861, 15862, 18570.
- T4632 *Papaver orientale* (Papaveraceae); JIN DONG YING SU; Oriental Poppy. Isolated compounds: 7837, 11741, 16625.
- T4633 *Papaver persicum* (Papaveraceae); BO SI YING SU; Persia Poppy. Isolated compounds: 1738, 16625.
- T4634 *Papaver pseudorientale* (Papaveraceae); JIA JIN DONG YING SU; Pseudoriental Poppy\*. Isolated compounds: 11741.  
*Papaver rhoeas* = *Papaver commutatum*
- T4635 *Papaver somniferum* (Papaveraceae); YA PIAN; Opium. Used part: latex from unripe capsules. TCM Effects: To relieve pain, astringe intestines, suppress cough. TCM Indications: Pain in heart and abdomen, chronic diarrhea, chronic dysentery, dry cough without phlegm. Isolated compounds: 3884, 3885, 4050, 4123, 4129, 4290, 4473, 4474, 4503, 4504, 7837, 8523, 8902, 9564, 9709, 11348, 12562, 12563, 13633, 14248, 14291, 14981, 15263, 15266, 15267, 15268, 15449, 15664, 16538, 16623, 16625, 16626, 16627, 16628, 18052, 18654, 18816, 19284, 19566, 19987, 19997, 21292, 22745.
- T4636 *Papaver somniferum* (Papaveraceae); YING SU; Opium Poppy. Used part: seed. TCM Effects: To fortify spleen and promote digestion, clear heat and disinhibit urine. TCM Indications: Stomach reflux, abdominal pain, diarrhea, prolapse of rectum. Isolated compounds: 2887, 3885, 4290, 4473, 7837, 8513, 9349, 9350, 12561, 12563, 14981, 15263, 15266, 15268, 15449, 16430, 16623, 17983, 18655, 19284, 20369, 21292.
- T4637 *Papaver somniferum* (Papaveraceae); YING SU KE; Opium Poppy Pericarp. Used part: capsule. TCM Effects: To constrain lung, astringe intestines, relieve pain. TCM Indications: Enduring cough, chronic diarrhea, prolapse of rectum, pain in stomach duct and abdomen. Isolated compounds: 3885, 4290, 5708, 7334, 11085, 13505, 14981, 15266, 15268, 15793, 16473, 16623, 19284, 19650, 21292.
- T4638 *Papaver* spp. (Papaveraceae). Isolated compounds: 3498, 7002, 16624, 16627, 16628.
- T4639 *Papaver urbanianum* (Papaveraceae). Isolated compounds: 14251.
- T4640 *Parabenzoin trilobum* JIA SHAN HU JIAO. Isolated compounds: 16649.
- T4641 *Parakmeria yunnanensis* (Magnoliaceae); YUN NAN NI DAN XING MU LAN; Yunnan Parakmeria. Isolated compounds: 16651.
- T4642 *Parameria laevigata* (Apocynaceae); CHANG JIE ZHU; Laevigata Parameria. Used part: stem cortex or root cortex. TCM Effects: To supplement kidney and strengthen lumbus, dissipate stasis and relieve pain. TCM Indications: Kidney vacuity lumbago, pain in sinews and bones, knocks and falls, snake bite. Isolated compounds: 666, 3725, 6862, 16654, 16655, 17868.
- T4643 *Pararistolochia flos-avis*. Isolated compounds: 17463.
- T4644 *Parasilurus asotus* NIAN YU. Used part: meat or whole fish. TCM Effects: To enrich *yin* and supplement vacuity, fortify spleen and promote digestion, promote lactation, disinhibit urine. TCM Indications: Vacuity detriment and emaciation weakness, spleen-stomach vacuity, indigestion, postpartum scant milk, edema, inhibited urination [=dysuria]. Isolated compounds: 16656.
- T4645 *Parepigynum funingense* (Apocynaceae); FU NING TENG. Isolated compounds: 8005, 8006, 8007, 8008.
- T4646 *Parinari sprucei* (Chrysobalanaceae). Isolated compounds: 5931, 6042, 6066, 6067, 9504, 10512, 10588, 12179, 16854, 16855, 21135, 21136, 21137, 21755, 21758, 21798, 21801, 21802, 21803, 21804, 21805, 21806, 21807.
- T4647 *Paris fargesii* (Liliaceae); QIU YAO GE CHONG LOU; Farges Paris. Isolated compounds: 6440.
- T4648 *Paris polyphylla* (Liliaceae); ZAO XIU; Manyleaf Paris. Equivalent plant: *Paris polyphylla* var. *chinensis*, *Paris polyphylla* var. *yunnanensis*, *Paris polyphylla* var. *pseudothibetica*, *Paris polyphylla* var. *stenophylla*. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, cool liver and settle

- fright. **TCM Indications:** Swelling toxin of welling abscess and sore, throat impediment, mammary welling abscess, snake or insect bites, painful wound from knocks and falls, liver heat and convulsion. **Isolated compounds:** 6437, 6440, 6443, 6446, 6447, 16668, 16669, 16671, 16810, 16811, 16812, 16815, 17654, 17655, 17656, 17657, 17658, 17659, 17781.
- T4649 *Paris polyphylla* var. *chinensis* (Liliaceae); HUA CHONG LOU; China Paris. **Used part:** rhizome. **TCM Effects:** See *Paris polyphylla*. **TCM Indications:** See *Paris polyphylla*. **Isolated compounds:** 16815.
- T4650 *Paris polyphylla* var. *pseudohibetica* (Liliaceae); CHANG YAO GE CHONG LOU; Tibet Paris. **Used part:** rhizome. **TCM Effects:** See *Paris polyphylla*. **TCM Indications:** See *Paris polyphylla*. **Isolated compounds:** 6440.
- T4651 *Paris polyphylla* var. *stenophylla* (Liliaceae); XIA YE CHONG LOU; Narrowleaf Paris. **Used part:** rhizome. **TCM Effects:** See *Paris polyphylla*. **TCM Indications:** See *Paris polyphylla*. **Isolated compounds:** 6440.
- T4652 *Paris polyphylla* var. *yunnanensis* (Liliaceae); YUN NAN CHONG LOU; Yunnan Manyleaf Paris. **Used part:** rhizome. **TCM Effects:** See *Paris polyphylla*. **TCM Indications:** See *Paris polyphylla*. **Isolated compounds:** 6440, 16813, 16814, 16815, 17783.
- T4653 *Paris* sp. (Liliaceae). **Isolated compounds:** 6440.
- T4654 *Paris* spp. (Liliaceae). **Isolated compounds:** 16809.
- T4655 *Paris tetraphylla* (Liliaceae); WANG SUN; Tetraphyllous Paris. **Used part:** rhizome. **TCM Indications:** Red and white dysentery, impediment, aching pain in limbs. **Isolated compounds:** 16815.
- T4656 *Parmelia saxatilis* (Parmeliaceae); SHI HUA; Parmelia Lichen. **Used part:** lichen. **TCM Effects:** To supplement liver and boost kidney, brighten eyes, stanch bleeding, resolve toxin and disinhibit damp. **TCM Indications:** Blurred vision, pain in lumbus and knees, blood ejection, flooding and spotting, jaundice, scab and lichen. **Isolated compounds:** 1990, 9185, 16673.
- T4657 *Parmelia saxatilis* var. *omphalodes* (Parmeliaceae); QI SHI HUA; Omphalos Parmelia\*. **Isolated compounds:** 1990.
- T4658 *Parmelia tinctorum* (Parmeliaceae); MEI YI; Tinctorial Parmelia\*. **Used part:** lichen. **TCM Effects:** To boost essence, brighten eyes, cool blood and resolve toxin. **TCM Indications:** Dim vision, flooding and spotting, bleeding due to external injury, sore toxin and intractable lichen. **Isolated compounds:** 11486, 12598, 16169.
- T4659 *Parthenium argentatum* x *P. tomentosum* (Asteraceae); ZA JIAO YIN JIAO JU; Hybrid Pathenium\*. **Isolated compounds:** 1668, 1669, 1670, 1671.
- T4660 *Parthenium hysterophorus* (Asteraceae); YIN JIAO JU; Common Pathenium. **Used part:** whole herb. **TCM Indications:** Toxin swelling of sores. **Isolated compounds:** 239, 3482, 4087, 7170, 7171, 7172, 9936, 10916, 10917, 10918, 10919, 16674, 21842.
- T4661 *Parthenium* spp. (Asteraceae). **Isolated compounds:** 16675.
- T4662 *Parthenocissus tricuspidata* (Vitaceae); DI JIN; Japanese Creeper. **Used part:** root and stem. **TCM Effects:** To quicken blood, dispel wind, relieve pain. **TCM Indications:** Postpartum blood stasis, abdominal lump glomus, red and white vaginal discharge, wind-damp pain in sinew and bone, migraine. **Isolated compounds:** 13266, 15986.
- T4663 *Passiflora caerulea* (Passifloraceae); XI FAN LIAN; Passionflower. **Used part:** whole herb. **TCM Effects:** To dispel wind and eliminate damp, quicken blood and relieve pain. **TCM Indications:** Common cold with headache, nasal congestion and runny nose, pain in joints due to rheumatism, mounting *qi*, dysmenorrhea, neuralgia, insomnia, diarrhea. **Isolated compounds:** 3318, 8095.
- T4664 *Passiflora coriacea* (Passifloraceae); GE YANG XI FAN LIAN; Coriaceous Passionflower\*. **Isolated compounds:** 4988.
- T4665 *Passiflora edulis* (Passifloraceae); JI DAN GUO; Passionfruit. **Used part:** fruit. **TCM Effects:** To clear lung and moisten dryness, quiet spirit and relieve pain, harmonize blood and check dysentery. **TCM Indications:** Cough, dry throat, hoarseness, constipation, insomnia, dysmenorrhea, pain in joints, dysentery. **Isolated compounds:** 9232, 9233, 9234, 9235, 15926, 22615.
- T4666 *Passiflora incarnata* (Passifloraceae); FEN HONG SE XI FAN LIAN; May-apple. **Isolated compounds:** 9232, 9234, 9236.
- T4667 *Passiflora quadrangularis* (Passifloraceae); DA GUO XI FAN LIAN; Giant Granadilla. **Isolated compounds:** 6354, 6355, 6380, 6386, 15708.
- T4668 *Passiflora* sp. (Passifloraceae). **Isolated compounds:** 9467, 13003.
- T4669 *Pastinaca sativa* (Apiaceae); OU FANG FENG; Garden Parsnip. **Isolated compounds:** 15204, 22774, 22775.
- T4670 *Patrinia heterophylla* (Valerianaceae); YI YE BAI JIANG; Diversifolious Patrinia. Equivalent plant: *Patrinia scabra*. **Used part:** root. **TCM Effects:** To constrain sweat and dry damp, dispel stasis and disperse swelling. **TCM Indications:** Warm malaria, flooding, red and white vaginal discharge, knocks and falls. **Isolated compounds:** 15705.
- T4671 *Patrinia saniculaefolia* (Valerianaceae); BIAN DOU CAI YE BAI JIANG; Korea Patrinia\*. **Isolated compounds:** 15276, 16716, 16717, 16718.
- T4672 *Patrinia scabiosaefolia* (Valerianaceae); HUANG HUA BAI JIANG; Dahurian Patrinia. **Used part:** whole herb. **TCM Effects:** See *Patrinia villosa*. **TCM Indications:** See *Patrinia villosa*. **Isolated compounds:** 1576, 3042, 4680, 6756, 8607, 8719, 8726, 9260, 9262, 9276, 12642, 12643, 16050, 16719, 16720, 16721, 16722, 16723, 18709, 18710, 19443, 19444, 19445, 19446, 19447, 19542, 19987, 20476, 20477.
- T4673 *Patrinia scabra* (Valerianaceae); CAO YE BAI JIANG; Scabrous Patrinia. **Used part:** root. **TCM Effects:** See *Patrinia heterophylla*. **TCM Indications:** See *Patrinia heterophylla*. **Isolated compounds:** 4414, 7409, 16724.
- T4674 *Patrinia* sp. (Valerianaceae). **Isolated compounds:** 3340.
- T4675 *Patrinia* spp. (Valerianaceae). **Isolated compounds:** 12642.
- T4676 *Patrinia villosa* (Valerianaceae); BAI JIANG; Whiteflower Patrinia. Equivalent plant: *Patrinia scabiosaefolia*. **Used part:** whole herb. **TCM Effects:** To clear heat and resolve toxin, expel pus and break stasis. **TCM Indications:** Intestinal welling abscess, dysentery, red and white vaginal discharge, postpartum blood stasis abdominal pain, red eyes with gall, swollen welling abscess, scab and lichen. **Isolated compounds:** 11083, 12950, 14982, 19935, 22479, 22480, 22481.
- Paullinia asiatica* = *Toddalia asiatica*
- T4677 *Paullinia cupana* (Sapindaceae); BA XI XIANG WU HUAN ZI; Guarana. **Isolated compounds:** 2892, 21310, 21312.
- Paullinia japonica* = *Ampelopsis japonica*
- T4678 *Paulownia fortunei* (Scrophulariaceae); PAO TONG; Fortune

- Paulownia. Equivalent plant: *Paulownia tomentosa*. Used part: bark. TCM Effects: To expel wind and eliminate damp, resolve toxin and disperse swelling. TCM Indications: Wind-damp-heat impediment, strangury, erysipelas, toxin swelling from hemorrhoids, intestinal wind bleeding, swelling pain due to external injury, fracture. Isolated compounds: 20569.
- T4679 *Paulownia tomentosa* (Scrophulariaceae); MAO PAO TONG; Royal Paulownia. Used part: bark. TCM Effects: See *Paulownia fortunei*. TCM Indications: See *Paulownia fortunei*. Isolated compounds: 580, 1833, 3052, 3306, 3981, 11581, 13580, 16734, 19777, 19922, 20569, 22270.
- T4680 *Paxillus curtisii* (Paxillaceae); KE DI SI WANG ZHE JUN; Curtisi Paxillus\*. Isolated compounds: 4401, 4402, 4403, 4404, 4405, 4406, 4407, 4408, 4409, 4410, 4411, 4412, 4413.
- T4681 *Pedicularis decora* (Scrophulariaceae); MEI GUAN MA XIAN HAO ; Smallcalyx Woodbetony. Used part: root. TCM Effects: To enrich *yin* and supplement kidney, boost *qi* and fortify spleen. TCM Indications: Spleen-kidney vacuity, steaming bone tidal fever, pain in joints, no thought of food and drink. Isolated compounds: 16763, 16764.
- T4682 *Pedicularis muscicola* (Scrophulariaceae); XIAN SHENG MA XIAN HAO; Muscicolous Woodbetony. Used part: root. TCM Effects: To supplement original *qi* greatly, engender liquid and quiet spirit, strengthen heart and lower blood pressure. TCM Indications: *Qi*-blood depletion, vacuity taxation with profuse sweating, vacuity desertion failure, hypotension. Isolated compounds: 3247, 19782.
- T4683 *Pedicularis spicata* (Scrophulariaceae); SUI HUA MA XIAN HAO; Spicate Woodbetony. Isolated compounds: 16763.
- T4684 *Pedicularis striata* (Scrophulariaceae); HONG WEN MA XIAN HAO; Redstriate Woodbetony. Isolated compounds: 16763.
- T4685 *Pedicularis striata* ssp. *arachnoidea* (Scrophulariaceae); ZHU SI HONG WEN MA XIAN HAO; Arachnoidea Redstriate Woodbetony\*. Isolated compounds: 16763.
- T4686 *Pedilanthus tithymaloides* (Euphorbiaceae); YU DAI GEN; Tithymalus-like Pedilanthus. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling, engender flesh and stanch bleeding. TCM Indications: Toxin swelling of sores, painful swelling from knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 6918, 6919.
- T4687 *Peganum harmala* (Zygophyllaceae); LUO TUO PENG; Common Peganum. Used part: whole herb. TCM Effects: To diffuse lung *qi*, dispel wind-damp, disperse swelling toxin. TCM Indications: Cough and shortness of breath, wind-damp impediment pain, itchy skin, innominate toxin swelling. Isolated compounds: 5201, 5219, 9232, 9233, 9235, 16766, 16768, 16769, 16770, 16771, 19062, 22350.
- T4688 *Peganum harmala* (Zygophyllaceae); LUO TUO PENG ZI; Common Peganum Seed. Used part: seed. TCM Effects: To relieve cough and calm asthma, dispel wind-damp, resolve depression. TCM Indications: Cough and asthma, inhibited urination, numbness in limbs, aching pain in joints. Isolated compounds: 5219, 9232, 9235, 9236, 12488, 16770, 21070, 22350.
- T4689 *Peganum nigellastrum* (Zygophyllaceae); LUO TUO HAO; Little Peganum. Used part: whole herb. TCM Effects: To dispel damp and resolve toxin, quicken blood and relieve pain, diffuse lung and suppress cough. TCM Indications: Arthritis, menstrual disorder, bronchitis, headache. Isolated compounds: 5219, 5565, 5713, 13086, 13087, 22350.
- T4690 *Pelargonium graveolens* (Geraniaceae); XIANG YE; Roco Pelargonium. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, kill worms. TCM Indications: Rheumatism, mounting *qi*, scrotal eczema, scab and lichen. Isolated compounds: 3768, 12853, 14581, 15146, 18920, 21979.
- T4691 *Pelargonium hortorum* (Geraniaceae); SHI LA HONG; Fish Pelargonium. Used part: flower. TCM Effects: To clear heat and resolve toxin. TCM Indications: Otitis media. Isolated compounds: 3767, 3768, 15901.
- T4692 *Pelargonium reniforme* (Geraniaceae); SHEN YE TIAN ZHU KUI; Reniform Pelargonium\*. Isolated compounds: 2603, 8111, 8112, 8113, 8119, 11342, 16786, 16787, 16788, 17221, 17222, 21905.
- T4693 *Pelargonium* sp. (Geraniaceae). Isolated compounds: 20715.
- T4694 *Pelargonium zonale* (Geraniaceae); MA TI WEN TIAN ZHU KUI; Zonal Geranium. Isolated compounds: 16781.
- T4695 *Pellia epiphylla* (Dilaeaceae); XI TAI. Isolated compounds: 6999, 16790.
- T4696 *Penaeus orientalis* (Penaeidae); HAI XIAKihinouye; Prawn. Used part: meat or body. TCM Effects: To supplement kidney and invigorate *yang*, open stomach and transform phlegm. TCM Indications: Kidney vacuity impotence, convulsion of hands and feet, wind stroke with hemiplegia, mammary sore, enduring sores. Isolated compounds: 1921, 3095, 4569, 6688, 10913, 13126, 14133, 21940.
- T4697 *Penicillium oxalicum* . Isolated compounds: 6906.
- T4698 *Penicillium roqueforti* LOU DI QING MEI. Isolated compounds: 17999.
- T4699 *Penicillium simplicissimum* JI JIAN DAN QING MEI. Isolated compounds: 2441, 4206, 4207, 16806, 16807.
- T4700 *Penicillium steckii* . Isolated compounds: 6340, 6362, 20690, 20691.
- T4701 *Penicillium verruculosum* Mold; *Penicillium verruculosum*. Isolated compounds: 22421.
- T4702 *Pentopetia androsaernifolia* (Asclepiadaceae); PEN TUO PO TI CAO; *Pentopetia androsaernifolia*. Isolated compounds: 16959.
- T4703 *Pentopetia* spp. (Asclepiadaceae). Isolated compounds: 16958.
- T4704 *Peperomia duclouxii* (Piperaceae); MENG ZI CAO HU JIAO; Mengzi Peperomia\*. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, transform stasis and dissipate binds, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, knocks and falls, swollen welling abscess and sore toxin, try to using for carcinoma of stomach and carcinoma of esophagus. Isolated compounds: 2482, 2483, 9818, 10015, 10016, 10388, 14009, 14010, 14011, 14107, 18265, 22170.
- T4705 *Peperomia pellucida* (Piperaceae); CAO HU JIAO; Shiny Peperomia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain, stanch bleeding. TCM Indications: Swelling toxin of welling abscess and sore, burns and scalds, knocks and falls, bleeding due to external injury. Isolated compounds: 16791.

- T4706 *Peperomia sui* (Piperaceae). Isolated compounds: 2415, 16906, 17871, 20491, 20493, 20494, 20495.
- T4707 *Peperomia villipetiola* (Piperaceae). Isolated compounds: 13820, 13821, 14116, 14515, 14516, 14587, 14588.
- T4708 *Peperomia vulcanica* (Piperaceae); HUO SHAN YAN CAO HU JIAO; Volcanic Peperomia\*. Isolated compounds: 16907, 16908.
- T4709 *Periandra dulcis* TIAN ZHOU WEI JIA XIONG RUI. Isolated compounds: 16918, 16919, 16920.
- T4710 *Pericampylus glaucus* (Menispermaceae); XI YUAN TENG; Greyblue Pericampylus. Used part: vine or root. TCM Effects: To clear heat and resolve toxin, extinguish wind and check tetany, dispel wind-damp. TCM Indications: Toxin swelling of sores, swelling pain in throat, fright wind and convulsion, wind-damp impediment pain, knocks and falls, poisonous snake bite. Isolated compounds: 6918.
- T4711 *Pericopsis angolensis*. Isolated compounds: 6290, 17278.
- T4712 *Peridinium bipes* (Peridiniaceae); ER JIAO DUO JIA ZAO. Isolated compounds: 5377, 6424, 6425, 16922.
- T4713 *Perilla arguta* (Lamiaceae); RUI ZI SU; Argute Perilla\*. Isolated compounds: 16930.
- T4714 *Perilla frutescens* (Lamiaceae); BAI SU YE; Common Perilla Leaf. Used part: leaf. TCM Effects: To course wind and diffuse lung, rectify *qi* and disperse food, resolve toxin of fish and crab. TCM Indications: Common cold due to wind-cold, cough and asthma, distention and oppression in stomach duct and abdomen, non-digestion of food accumulation, vomiting and diarrhea, cold dysentery, poisoning of fish or crab, genital swelling, leg *qi* with swelling toxin, snake or insect bites. Isolated compounds: 10270, 16931, 16934.
- T4715 *Perilla frutescens* (Lamiaceae); BAI SU ZI; Common Perilla Fruit. Used part: fruit. TCM Effects: To downbear *qi* and disperse phlegm, calm asthma, moisten intestines. TCM Indications: Phlegm congestion and *qi* counterflow, cough and asthma, intestinal dry and constipation. Isolated compounds: 6716, 8816, 15983, 16929, 16930.
- T4716 *Perilla frutescens* f. *viridis* (Lamiaceae); QING ZI SU ; Viridian Common Perilla\*. Isolated compounds: 16931, 16933.
- T4717 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*] (Lamiaceae); JIAN ZI SU; Acute Common Perilla. Used part: seed. TCM Effects: See *Perilla frutescens* var. *arguta*. TCM Indications: See *Perilla frutescens* var. *arguta*. Isolated compounds: 6095, 6096, 6193, 6745, 13774, 16930.
- T4718 *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*] (Lamiaceae); JIAN ZI SU YE; Acute Common Perilla Leaf. Used part: leaf. TCM Effects: See *Perilla frutescens* var. *arguta*. TCM Indications: See *Perilla frutescens* var. *arguta*. Isolated compounds: 2222, 2455, 2887, 3040, 3045, 3242, 4550, 6745, 7521, 11406, 12420, 12843, 12849, 13774, 13776, 15204, 15238, 16929, 17376, 17377, 18000, 19587, 19983, 20369, 22465.
- T4719 *Perilla frutescens* var. *arguta* (Lamiaceae); ZI SU; Common Perilla. Equivalent plant: *Perilla frutescens* var. *acuta*, *Perilla frutescens* var. *crispa*. Used part: seed. TCM Effects: To downbear *qi*, transform phlegm, calm asthma, moisten intestines. TCM Indications: Phlegm congestion and *qi* counterflow, cough and asthma, intestinal dry and constipation. Isolated compounds: 12891, 12893, 22554.
- T4720 *Perilla frutescens* var. *arguta* (Lamiaceae); ZI SU GENG; Common Perilla Stem. Equivalent plant: *Perilla frutescens* var. *crispa*. Used part: stem. TCM Effects: To loosen center and rectify *qi*, quiet fetus, harmonize blood. TCM Indications: Spleen-stomach *qi* stagnation, glomus fullness, fetus *qi* disharmony, beriberi with edema, hemoptysis, blood ejection, spontaneous external bleeding. Isolated compounds: 6716, 12893, 16929.
- T4721 *Perilla frutescens* var. *arguta* (Lamiaceae); ZI SU YE; Common Perilla Leaf. Equivalent plant: *Perilla frutescens* var. *acuta*. Used part: leaf. TCM Effects: To dissipate cold and resolve exterior, diffuse lung and transform phlegm, move *qi* and harmonize center, quiet fetus, resolve toxin of fish and crab. TCM Indications: Wind-cold exterior syndrome, cough with profuse phlegm, distention fullness in chest and stomach duct, nausea and vomiting, abdominal pain and diarrhea, malign obstruction in pregnancy, poisoning of fish or crab. Isolated compounds: 2306, 3045, 3242, 4356, 5690, 11406, 12844, 12849, 13775, 14374, 16930, 16932, 16936, 19983.
- T4722 *Perilla frutescens* var. *crispa* (Lamiaceae); HUI HUI SU; Crisped Common Perilla. Used part: seed. TCM Effects: See *Perilla frutescens* var. *arguta*. TCM Indications: See *Perilla frutescens* var. *arguta*. Isolated compounds: 16930, 19983, 20369.
- T4723 *Perilla frutescens* var. *crispa* (Lamiaceae); HUI HUI SU GENG; Crisped Common Perilla Stem. Used part: stem. TCM Effects: See *Perilla frutescens* var. *arguta*. TCM Indications: See *Perilla frutescens* var. *arguta*. Isolated compounds: 1489, 2896, 2913, 3045, 3242, 3760, 6745, 12420, 12843, 12849, 13142, 13450, 13774, 13775, 15204, 15238, 16930, 16935, 17376, 19583.
- Perilla frutescens* var. *purpurascens* = *Perilla frutescens* var. *acuta*
- T4724 *Perilla* spp. (Lamiaceae). Isolated compounds: 19838.
- T4725 *Periploca calophylla* (Asclepiadaceae); QING SHE TENG; Greensnake vine. Used part: stem. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-cold-damp impediment, numbness of limbs, lumbago, knocks and falls. Isolated compounds: 12948, 16959, 17562.
- T4726 *Periploca forrestii* (Asclepiadaceae); XI NAN GANG LIU; Forrest Silkvine. Used part: root or whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and disperse welling abscess. TCM Indications: Wind-damp impediment pain, menstrual block, mammary welling abscess, knocks and falls, fracture. Isolated compounds: 10599, 16923, 16924, 16948, 16959.
- T4727 *Periploca graeca* (Asclepiadaceae); XI LA GANG LIU; Grecian Silkvine. Isolated compounds: 663, 4549, 7768, 16900, 16943, 16959.
- T4728 *Periploca nigrescens* (Asclepiadaceae); HEI GANG LIU; Black Silkvine. Isolated compounds: 281, 282, 4012, 4547, 4972, 4973, 20395, 20397, 20399, 20401.
- T4729 *Periploca sepium* (Asclepiadaceae); XIANG JIA PI; Chinese Silkvine Root-bark. Used part: root cortex. TCM Effects: To dispel wind-damp, strengthen sinews and bones. TCM Indications: Wind-damp impediment pain, limp aching lumbus and knees, palpitation and shortness of breath, edema in lower limb. Isolated compounds: 1110, 1111, 1112, 1113, 3951, 3953, 3956, 8828, 8829, 8830, 8831, 14088, 14684, 14685, 14686, 15493, 16938, 16939, 16940, 16941, 16942, 16943, 16944, 16945, 16946, 16947, 16948, 16949, 16950, 16951, 16952, 16953, 16954, 16955, 16956, 16957, 16958, 16959, 16961,



- 16962, 16963, 17566, 17801, 17802, 17803, 19092, 19093, 19094, 19095, 19853, 19987, 22856.
- T4730 *Peristrophe roxburghiana* (Acanthaceae); GUAN YIN CAO; Roxburgh Peristrophe. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and extinguish wind, dissipate stasis and disperse swelling. TCM Indications: Lung heat cough, tuberculosis and hacking of blood, blood ejection, infant fright wind, red swollen of throat, mouth and tongue sores, dribbling pain of urination, swelling welling abscess and sore and boil, scrofula, painful swelling from knocks and falls, bleeding due to external injury, poisonous snake bites. Isolated compounds: 16964, 16965.
- T4731 *Persea americana* [Syn. *Persea gratissima*] (Lauraceae); E LI; American Avocado. Used part: fruit. TCM Effects: To engender liquid and allay thirst. TCM Indications: Diabetes mellitus. Isolated compounds: 166, 167, 233, 234, 1596, 5691, 9748.
- T4732 *Persea borbonia* (Lauraceae). Isolated compounds: 15903.  
*Persea gratissima* = *Persea americana*
- T4733 *Persea indica* (Lauraceae); YIN DU E LI; Indian Avocado\*. Isolated compounds: 1264, 1265, 5465, 8201.
- T4734 *Persea* spp. (Lauraceae). Isolated compounds: 15903.  
*Persicaria sibirica* = *Polygonum sibiricum*
- T4735 *Pertya glabrescens* (Asteraceae); JIN WU MAO SAO JU; Longflower Bloomdaisy. Isolated compounds: 9528.
- T4736 *Petalostemon purpureus* ZI SE BAN RUI DOU; Purple Prairie-clover. Isolated compounds: 17008.
- T4737 *Petalostemon purpureum* HUANG SE BAN RUI DOU; Yellow Prairie-clover. Isolated compounds: 17009.
- T4738 *Petasites albus* (Asteraceae); BAI HUA FENG DOU CAI; White-flower Butterbur\*. Isolated compounds: 10094.
- T4739 *Petasites formosanus* (Asteraceae); TAI WAN FENG DOU CAI; Taiwan Butterbur\*. Isolated compounds: 2120, 2121, 2122, 4989, 7768, 13098, 17012, 17014, 20148.  
*Petasites hybridu* = *Petasites officinalis*
- T4740 *Petasites japonicus* (Asteraceae); FENG DOU CAI; Japanese Butterbur. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dispel stasis and disperse swelling. TCM Indications: Swelling pain in throat, swollen welling abscess and toxin of clove, poisonous snake bite, knocks and falls. Isolated compounds: 198, 264, 395, 864, 1188, 1205, 2412, 3194, 3241, 3242, 5617, 7227, 7229, 7986, 7987, 7988, 7989, 7990, 8016, 8018, 8019, 8021, 9607, 10094, 11591, 11626, 11822, 12813, 15693, 15696, 17010, 17011, 17013, 17015, 17016, 17017, 19302, 19731, 21616, 22389.
- T4741 *Petasites kablikianus* (Asteraceae); KA BU LI FENG DOU CAI; Kabliki Butterbur\*. Isolated compounds: 11591.
- T4742 *Petasites laevigatus* (Asteraceae); PING HUA FENG DOU CAI; Smooth Butterbur\*. Isolated compounds: 17546.
- T4743 *Petasites officinalis* [Syn. *Petasites hybridu*] (Asteraceae); ZI FENG DOU CAI; Purple Butterbur. Isolated compounds: 11591, 17013, 17015.
- T4744 *Petasites* sp. (Asteraceae). Isolated compounds: 2119, 7230.
- T4745 *Petasites tricholobus* (Asteraceae); MAO LIE FENG DOU CAI; Hairyllobed Butterbur. Isolated compounds: 2168, 17018, 17019, 18071.
- T4746 *Petiveria alliacea* (Phytolaccaceae); SUAN CHOU MU JI CAO. Isolated compounds: 2293, 5391, 5392, 5393, 5394, 5395, 6501, 8772, 8777, 8778.
- T4747 *Petrocosmea kerrii* (Gesneriaceae); SHI HU DIE; Kerri Petrocosmea\*. Isolated compounds: 3432.
- T4748 *Petroselinum crispum* (Apiaceae); ZHOU YE OU QIN; Curly Garden Parsley. Isolated compounds: 1502, 1520, 2284, 15204.
- T4749 *Petroselinum* sp. (Apiaceae). Isolated compounds: 2309.
- T4750 *Petrosia strongylata*; Sponge *Petrosia strongylata*. Isolated compounds: 12613, 12614.
- T4751 *Petunia hybrida* (Solanaceae); BI DONG QIE; Common Petunia. Isolated compounds: 13458, 13459, 13461, 17026.
- T4752 *Petunia nyctaginiflora* (Solanaceae); ZI MO LI HUA BI DONG QIE; Nyctaginiflower Petunia\*. Isolated compounds: 21962, 21964.
- T4753 *Petunia reitzii* (Solanaceae). Isolated compounds: 17358, 17359.
- T4754 *Peucedanum bourgaei* (Apiaceae); BO SHI QIAN HU; Bourgae Hogfennel\*. Isolated compounds: 17036.  
*Peucedanum decursivum* = *Angelica decursiva*
- T4755 *Peucedanum formosanum* (Apiaceae); TAI WAN QIAN HU; Taiwan Hogfennel. Isolated compounds: 17763.
- T4756 *Peucedanum govanianum* var. *bicolor* (Apiaceae); LI JIANG QIAN HU; Likiang Hogfennel. Isolated compounds: 1346, 7707, 12800, 14894, 17030, 17375, 18165, 18317, 20156, 20280.
- T4757 *Peucedanum grande* (Apiaceae); DA QIAN HU; Big Hogfennel\*. Isolated compounds: 2833.
- T4758 *Peucedanum guangxiense* (Apiaceae); GUANG XI QIAN HU; Guangxi Hogfennel. Isolated compounds: 17763.
- T4759 *Peucedanum hispanicum* (Apiaceae). Isolated compounds: 16263.
- T4760 *Peucedanum japonicum* (Apiaceae); BIN HAI QIAN HU; Japan Hogfennel. Used part: root. TCM Effects: To clear heat and relieve cough, disinhibit urine and resolve toxin. TCM Indications: Lung heat cough, damp-heat strangury pain, red swollen sore and welling abscess. Isolated compounds: 17032, 17763.
- T4761 *Peucedanum longshengens* (Apiaceae); NAN LING QIAN HU; Nanling Hogfennel. Used part: root. TCM Effects: See *Angelica decursiva*. TCM Indications: See *Angelica decursiva*. Isolated compounds: 476.
- T4762 *Peucedanum mashanens* (Apiaceae); MA SHAN QIAN HU; Mashan Hogfennel. Isolated compounds: 9204.
- T4763 *Peucedanum morisonii* (Apiaceae); ZHUN GE ER QIAN HU; Dzungaria Hogfennel\*. Used part: root. TCM Effects: To dispel wind and dissipate cold, rectify *qi* and relieve pain. TCM Indications: Wind-cold common cold, cough, stomach cold distending pain. Isolated compounds: 17028.
- T4764 *Peucedanum officinale* (Apiaceae); YAO YONG QIAN HU; Hog's Fennel. Isolated compounds: 17028.
- T4765 *Peucedanum oreoselinum* (Apiaceae); SHAN QIAN HU; Mountain Parsley. Isolated compounds: 12747, 17036.
- T4766 *Peucedanum ostruthium* (Apiaceae); OU QIAN HU; Masterwort. Isolated compounds: 11001, 16261, 16263, 16264.
- T4767 *Peucedanum palustre* (Apiaceae); ZHAO ZE QIAN HU; Marsh Parsley. Isolated compounds: 16263, 16457.
- T4768 *Peucedanum praeruptorum* (Apiaceae); BAI HUA QIAN HU;

- Whiteflower Hogfennel. Used part: root. TCM Effects: See *Angelica decursiva*. TCM Indications: See *Angelica decursiva*. Isolated compounds: 317, 1239, 1536, 2107, 2309, 8095, 11688, 15645, 15647, 17029, 17031, 17033, 17756, 17757, 17758, 17759, 17760, 17761, 17762, 17763, 17764, 18086, 18282, 18283, 18284, 18285, 18286, 22774.
- T4769 *Peucedanum rubricaulum* (Apiaceae); YUN QIAN HU; Yun Hogfennel. Used part: root. TCM Effects: See *Angelica decursiva*. TCM Indications: See *Angelica decursiva*. Isolated compounds: 359, 438, 4193, 5039, 11001, 11346, 13571, 13687, 14825, 16261, 19040, 19984, 20280, 22775.
- T4770 *Peucedanum ruthenicum* (Apiaceae); E GUO QIAN HU; Russian Hogfennel\*. Isolated compounds: 17028.
- T4771 *Peucedanum* sp. (Apiaceae). Isolated compounds: 1960.
- T4772 *Peucedanum stenocarpum* (Apiaceae); XIA GUO QIAN HU; Narrowfruit Hogfennel\*. Isolated compounds: 2833, 17028.
- T4773 *Peucedanum terebinthaceum* (Apiaceae); SHI FANG FENG; Terebinthaceous Hogfennel. Used part: root. TCM Effects: To dissipate wind and clear heat, downbear *qi* and disperse phlegm. TCM Indications: Common cold, cough, phlegm asthma, head wind dizziness. Isolated compounds: 13571.
- T4774 *Peumus boldus* (Monimiaceae); BO LU DU SHU; Boldo. Isolated compounds: 2538, 11256.
- T4775 *Pfaffia paniculata* BA XI REN SHEN. Isolated compounds: 17037, 17038.
- T4776 *Phaeanthus ebracteolatus* (Annonaceae). Isolated compounds: 17039.
- T4777 *Phalaris arundinacea* (Poaceae); YI CAO; Reed Canary-grass. Used part: whole herb. TCM Effects: To regulate menstruation and check discharge. TCM Indications: Menstrual disorder, red and white vaginal discharge. Isolated compounds: 6370, 8971, 9646.
- T4778 *Phallus impudicus* (Phallaceae); BAI GUI BI; Stinking Polecat, Wood Witch. Used part: sporocarp. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp pain. Isolated compounds: 17090.
- T4779 *Pharbitis nil* (Convolvulaceae); QIAN NIU ZI; Lobedleaf Pharbitis Seed. Equivalent plant: *Pharbitis purpurea*. Used part: seed. TCM Effects: To drain water and free stool, disperse accumulation and kill worms. TCM Indications: Edema distention fullness, inhibited urine and stool, phlegm-rheum and accumulation-gathering, *qi* counterflow with cough and asthma, abdominal pain due to worm accumulation, ascariasis, taeniasis. Isolated compounds: 3477, 6765, 8095, 8372, 8373, 8377, 11582, 13257, 15597, 16808, 16884, 17043, 17044.
- T4780 *Pharbitis purpurea* (Convolvulaceae); YUAN YE QIAN NIU ZI; Roundleaf Pharbitis Seed. Used part: seed. TCM Effects: See *Pharbitis nil*. TCM Indications: See *Pharbitis nil*. Isolated compounds: 8372, 8373, 8374, 8377.  
*Phaseolus angularis* = *Vigna angularis*
- T4781 *Phaseolus coccineus* (Fabaceae); DUO HUA CAI DOU; Scarlet Runner Bean. Isolated compounds: 13439.
- T4782 *Phaseolus multiflorus* (Fabaceae); HONG HUA CAI DOU; Runner Bean. Isolated compounds: 15708, 17045.
- T4783 *Phaseolus* sp. (Fabaceae). Isolated compounds: 1048.
- T4784 *Phaseolus* spp. (Fabaceae). Isolated compounds: 17047.
- T4785 *Phaseolus vulgaris* (Fabaceae); BAI FAN DOU; Kidney Bean. Used part: seed. TCM Effects: To enrich and nourish, resolve heat, disinhibit urine, disperse swelling. TCM Indications: Summerheat-heat vexation and thirst, edema, beriberi. Isolated compounds: 618, 3040, 3594, 4451, 5010, 5027, 7384, 8012, 8753, 11551, 12083, 12714, 12718, 16781, 17027, 17048, 17049, 17425, 17913, 19238, 19239, 20129, 20369.
- T4786 *Phasianus colchicus* (Phasianidae); ZHI; Common Pheasant. Used part: meat. TCM Effects: To supplement center and boost *qi*, engender liquid and allay thirst. TCM Indications: Spleen vacuity diarrhea, distention fullness in chest and abdomen, diabetes mellitus, frequent urination, phlegm asthma, fistula. Isolated compounds: 13504, 15949.
- T4787 *Phellinus igniarius* (Polyporaceae); SANG HUANG; *Phellinus igniarius*. Used part: sporocarp. TCM Effects: To stanch bleeding, quicken blood, transform rheum, check diarrhea. TCM Indications: Flooding, blood strangury, prolapse of rectum with bleeding, vaginal discharge, amenorrhea. Isolated compounds: 700, 2887, 5763, 6075, 6201, 7250, 9567, 9815, 11081, 11413, 15954, 17059, 17060, 17061, 17062, 17063, 17064, 17968, 20566.
- T4788 *Phellinus linteus* (Polyporaceae); LIE TI MU CENG KONG JUN. Isolated compounds: 9561.
- T4789 *Phellodendron amurense* (Rutaceae); HUANG BAI; Amur Corktree. Equivalent plant: *Phellodendron chinense*, *Phellodendron chinense* var. *Glabriusculum*, *Phellodendron amurense* var. *wilsonii*. Used part: bark. TCM Effects: To drain fire, dispel damp and resolve toxin. TCM Indications: Damp-heat dysentery, tuberculosis, epidemic meningitis, acute conjunctivitis, trachoma, fever, abdominal pain, diarrhea, suppurative hematochezia, tenesmus, jaundice, yellow thick foul leukorrhagia, swelling pain in knees and feet, urinary tract infection, boil, sore, ulcer, eczema, mouth sore, hemorrhoids, burns, scalds, exuberance of fire with tidal fever, tidal fever with night sweat, emission. Isolated compounds: 1091, 2303, 3040, 3070, 4969, 4971, 9428, 11851, 12226, 13374, 13716, 15598, 15761, 15882, 15883, 15884, 16555, 17053, 17057, 17058, 17065, 17066, 17078, 19983.
- T4790 *Phellodendron amurense* var. *wilsonii* (Rutaceae); TAI WAN HUANG BO; Taiwan Corktree\*. Used part: bark. TCM Effects: See *Phellodendron amurense*. TCM Indications: See *Phellodendron amurense*. Isolated compounds: 874, 1091, 1764, 1935, 5063, 9815, 9818, 10195, 11642, 12020, 12847, 13097, 14205, 14254, 14443, 14652, 14673, 15448, 16257, 16399, 17052, 17053, 17067, 17068, 17069, 17072, 17073, 17076, 18317, 19542, 19627, 19784, 19983, 20034, 21266, 21634, 22195, 22332.
- T4791 *Phellodendron chinense* (Rutaceae); HUANG PI SHU; Chinese Corktree. Used part: bark. TCM Effects: See *Phellodendron amurense*. TCM Indications: See *Phellodendron amurense*. Isolated compounds: 2303, 13374, 15598, 15599, 16555, 17065, 17070, 17071, 17075, 17480.
- T4792 *Phellodendron chinense* var. *glabriusculum* (Rutaceae); TU YE HUANG PI SHU; Glabrousleaf Chinese Corktree. Used part: bark. TCM Effects: See *Phellodendron amurense*. TCM Indications: See *Phellodendron amurense*. Isolated compounds: 4122, 13374, 17065, 19983, 21077.
- T4793 *Phellodendron japonicum* (Rutaceae); RI BEN HUANG BAI; Japan

- Corktree\*. Isolated compounds: 315, 481, 663, 874, 1091, 2224, 2887, 3723, 3936, 4135, 4189, 6954, 7951, 8983, 9815, 9818, 13097, 14141, 14205, 14254, 14652, 17053, 17066, 17074, 18317, 19081, 19540, 19542, 19983, 22195, 22332.
- T4794 *Phellodendron sachalinense* (Rutaceae); KU YE DAO HUANG BAI; Sachaline Corktree\*. Isolated compounds: 17078.
- T4795 *Phellodendron* spp. (Rutaceae). Isolated compounds: 15761.
- T4796 *Pheretima aspergillum*; *Allolobophora caliginosa trapezoides* (Megascolecidae;Lumbricidae); QIU YIN; Earthworm. Used part: body. TCM Effects: To clear heat, calm liver, calm asthma, free network vessels, lower blood pressure. TCM Indications: Ardent fever and manic agitation, fright wind and convulsion, wind-heat headache, red eyes, wind stroke with hemiplegia, chronic bronchitis, asthma, bronchial asthma, hypertension, throat impediment, pain in joints, gum hemorrhage, urinary stoppage, scrofula, epidemic parotitis, sore. Isolated compounds: 3585, 9067, 9070, 10913, 22756.
- T4797 *Phillyrea latifolia* (Oleaceae); KUO YE OU NV ZFEN; Tree Phyllirea. Used part: leaf. TCM Effects: To promote contraction, disinhibit urine. <sup>[5509]</sup> TCM Indications: Headache. <sup>[5509]</sup> Isolated compounds: 17145, 18792, 20569.
- T4798 *Philonotis fontana* (Bartramiaceae); ZE XIAN. Used part: plant body. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling pain in throat, common cold, cough, swelling welling abscess and sore and boil, burns and scalds. Isolated compounds: 5692, 17147.
- T4799 *Philydrum lanuginosum* (Philydraceae); TIAN CONG; Woolly Philydrum. Used part: whole herb. TCM Effects: To clear heat and transform damp, resolve toxin. TCM Indications: Edema, heat impediment, toxin swelling of sores, scab and lichen, beriberi, foot rot. Isolated compounds: 2843, 11659, 19087, 20562.
- T4800 *Phlegmariusus fordii* (Huperziaceae); HUA NAN MA WEI SHAN; Fordi Phlegmariusus. Used part: whole herb. TCM Effects: To dispel wind and free network vessels, disperse swelling and relieve pain, clear heat and resolve toxin. TCM Indications: Swelling pain in joints, numbness in limbs, knocks and falls, cough and asthma, heat strangury, poisonous snake bite. Isolated compounds: 7879, 17154, 17155, 17156, 17157, 17158.
- T4801 *Phlegmariusus phlegmaria* [Syn. *Lycopodium phlegmaria*] (Huperziaceae); MA WEI SHAN; Slender Phlegmariusus. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, knocks and falls, fever and sore pharynx, edema, urticaria. Isolated compounds: 13188, 13193, 13220, 13221, 17148, 17149, 17150, 17151, 17152, 17153, 19770.
- T4802 *Phleum pratense* (Poaceae); TI MU CAO; Timothy. Used part: whole herb. TCM Indications: Indigestion, diarrhea, dysentery, dribbling pain of urination. Isolated compounds: 7768.
- T4803 *Phlogacanthus curviflorus* (Acanthaceae); HUO YAN HUA; Curvedflower Phlogacanthus. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, interrupt malaria. TCM Indications: Heat toxin swollen welling abscess, malaria. Isolated compounds: 85, 2331, 4680, 13098, 17159, 17160, 17161, 17162, 17163, 19983, 20556.
- T4804 *Phlojodicarpus sibiricus* (Apiaceae); ZHANG GUO QIN; Siberian Phlojodicarpus. Used part: root. TCM Effects: See *Angelica sinensis*. TCM Indications: See *Angelica sinensis*. Isolated compounds: 5707, 22552.
- T4805 *Phlojodicarpus* sp. (Apiaceae). Isolated compounds: 22552.
- T4806 *Phlomis aurea* (Lamiaceae); JIN HUANG CAO SU; Goldenyellow Jerusalem sage\*. Isolated compounds: 2279, 6998, 10085, 17167.
- T4807 *Phlomis brunneogaleata* (Lamiaceae); ZONG KUI CAO SU. Isolated compounds: 580, 2683, 2920, 2924, 3166, 3551, 3609, 3674, 7925, 9750, 11128, 11195, 12916, 18221.
- T4808 *Phlomis grandiflora* var. *grandiflora* (Lamiaceae); DA HUA CAO SU; Largeflower Jerusalem sage. Isolated compounds: 17164.
- T4809 *Phlomis lunariifolia* (Lamiaceae); XIN YUE XING YE CAO SU. Isolated compounds: 13074, 13075, 13138.
- T4810 *Phlomis mongolica* (Lamiaceae); MENG GU CAO SU; Mongolian Jerusalem sage. Used part: root or whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Rheumatic arthritis, common cold, knocks and falls, vacuity and fever. Isolated compounds: 511, 6997, 19782.
- T4811 *Phlomis pungens* (Lamiaceae); CI CAO SU; Pungent Jerusalem sage\*. Isolated compounds: 8289.  
*Phlomis rotata* = *Lamiophlomis rotata*
- T4812 *Phlomis spinidens* (Lamiaceae). Isolated compounds: 17165, 17166.
- T4813 *Phlomis tuberosa* (Lamiaceae); KUAI JING CAO SU; Tuberosroot Jerusalem sage. Used part: whole herb or root. TCM Effects: To resolve toxin and disperse swelling, quicken blood and regulate menstruation. TCM Indications: Menstrual disorder, syphilis, swelling of sores. Isolated compounds: 1494, 2887, 2906, 2918.
- T4814 *Phlomis umbrosa* (Lamiaceae); CAO SU; Jerusalem sage. Used part: whole herb with root. TCM Effects: To dispel wind and transform phlegm, disinhibit damp and eliminate impediment, dispel phlegm, resolve toxin, disperse swelling. TCM Indications: Common cold, cough and abundant phlegm, wind-damp impediment pain, knocks and falls, swelling and toxin of sore and welling abscess. Isolated compounds: 8597, 10494, 19574.
- T4815 *Phoebe chemensii* (Lauraceae); CHE SHI NAN; Chemens Phoebe\*. Isolated compounds: 13631.
- T4816 *Phoebe cinnamomifolia* (Lauraceae); YU GUO XIAO YE NAN; Cinnamomi-leaf Phoebe\*. Isolated compounds: 16414.
- T4817 *Phoebe mollicella* (Lauraceae). Isolated compounds: 21246.
- T4818 *Phoebe nanmu* (Lauraceae); NAN MU; Nanmu. Used part: wood branchlet-leaf. TCM Effects: To harmonize center and downbear counterflow, check vomiting and diarrhea, disinhibit water and disperse edema. TCM Indications: Vomiting and diarrhea with cramp, edema. Isolated compounds: 16396.
- T4819 *Phoenix canariensis* (Arecaceae); ZHEN KUI; Canary Island Date-palm. Isolated compounds: 21589.
- T4820 *Phoenix dactylifera* (Arecaceae); WU LOU ZI; Phoenix Date. Used part: fruit. TCM Effects: To boost *qi* and supplement vacuity, disperse food and transform phlegm. TCM Indications: Cough with phlegm, vacuity detriment. Isolated compounds: 2923, 3585, 7387, 7819, 13100.
- T4821 *Pholidota articulata* (Orchidaceae); JIE JING SHI XIAN TAO; Articulate Pholidota. Used part: whole herb. TCM Effects: To enrich

- yin and boost *qi*, dissipate stasis and disperse swelling. TCM Indications: Lung vacuity cough, prolapse of uterus, dizziness, headache, emission, leukorrhea, swelling toxin of welling abscess and sore, knocks and falls, fracture with wound sinew. Isolated compounds: 7811.
- T4822 *Pholidota rubra* (Orchidaceae); HONG SHI XIAN TAO; Rubi Pholidota\*. Isolated compounds: 17176.
- T4823 *Pholidota yunnanensis* (Orchidaceae); YUN NAN SHI XIAN TAO; Yunnan Pholidota. Used part: Pseudobulb or whole herb. TCM Effects: To moisten lung and relieve cough, dissipate stasis and relieve pain, clear heat and disinhibit damp. TCM Indications: Tuberculosis and hemoptysis, lung heat cough, chest and rib-side pain, stomachache, swelling toxin of welling abscess and sore, wind-damp pain. Isolated compounds: 4519, 4529, 17175, 17196, 17197, 17198, 17199, 17200, 17201.
- T4824 *Phoma lingam* JING DIAN MEI. Isolated compounds: 17177, 17178, 17179, 17180, 17604, 17605, 17606, 17607, 17608.
- T4825 *Phormium tenax* (Agavaceae); XIN XI LAN MA; New Zealand Flax. Isolated compounds: 7736, 11355.
- T4826 *Photinia lactiflora* (Rosaceae); MAO HUA SHI NAN; Hairyflower Photinia\*. Isolated compounds: 1935.
- T4827 *Photinia parvifolia* (Rosaceae); XIAO YE SHI NAN; Small-leaf Photinia\*. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain. TCM Indications: jaundice (icterus, ICT), mammary welling abscess, toothache. Isolated compounds: 6250, 8624, 9023, 9024, 10014, 11726.
- T4828 *Photinia serrulata* (Rosaceae); SHI NAN; Chinese Photinia. Used part: tender branch-leaf. TCM Effects: To dispel wind-damp, relieve itch, strengthen sinews and bones, boost liver and kidney. TCM Indications: Wind-damp impediment pain, head wind headache, wind papules [=rubella], weakness in legs and knees, kidney vacuity lumbar pain, impotence with emission. Isolated compounds: 16050, 22270.
- T4829 *Phragmites communis* (Poaceae); LU GEN; Common Reed Rhizome. Used part: rhizome. TCM Effects: To clear heat and engender liquid, eliminate vexation, check vomiting, disinhibit urine. TCM Indications: Febrile diseases with vexation and thirst, stomach heat vomiting, lung heat cough, pulmonary welling abscess, heat strangury with inhibited pain. Isolated compounds: 3907, 3925, 18834, 21589, 22554.
- T4830 *Phryma leptostachya* (Phrymataceae); LAO PO ZI ZHEN XIAN; Lopseed. Used part: herb or root. TCM Effects: To resolve toxin and kill worms. TCM Indications: Scab sore, yellow-water sore, sore toxin. Isolated compounds: 12680, 17203.
- T4831 *Phtheirospermum japonicum* [Syn. *Gerardia japonica*] (Scrophulariaceae); SONG HAO; Japanese Phtheirospermum. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Jaundice, edema, wind-heat common cold, mouth sore, nasitis, swelling toxin of sore and boil. Isolated compounds: 12725, 17513.
- T4832 *Phyllanthus acuminatus* (Euphorbiaceae); JIAN YE YE XIA ZHU; Sharpleaf Leafflower\*. Isolated compounds: 11978, 17216, 17217, 17218, 17219.
- T4833 *Phyllanthus discoides* (Euphorbiaceae); PAN ZHUANG YE XIA ZHU; Discoid Leafflower\*. Isolated compounds: 19639.
- T4834 *Phyllanthus emblica* (Euphorbiaceae); AN MO LE; Emblic Leafflower. Used part: fruit. TCM Effects: To relieve cough and transform phlegm, engender liquid and allay thirst, resolve toxin. TCM Indications: Common cold with fever, cough, throat pain, diphtheria, enteritis, diarrhea, eczema, heat vexation and thirst. Isolated compounds: 3176, 3490, 3491, 3492, 3493, 4055, 5517, 5518, 5519, 6239, 6730, 6819, 6853, 6921, 7402, 8030, 8096, 8098, 8108, 8109, 8311, 9502, 13098, 13420, 13423, 15007, 15008, 15009, 15010, 15011, 15012, 15013, 15014, 15015, 15016, 15017, 15362, 17171, 17205, 17206, 17207, 17208, 17209, 17210, 17211, 17212, 17213, 17898, 17899, 18203, 18228, 20969, 21053.
- T4835 *Phyllanthus emblica* (Euphorbiaceae); YOU GAN GEN; Emblic Leafflower Root. Used part: root. TCM Effects: To clear heat and disinhibit damp, resolve toxin and dissipate binds. TCM Indications: Diarrhea, dysentery, jaundice, scrofula, eczema of skin, centipede bite. Isolated compounds: 13098.
- T4836 *Phyllanthus emblica* (Euphorbiaceae); YOU GAN MU PI; Emblic Leafflower Bark. Used part: bark. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin. TCM Indications: Mouth sore, clove sore, hemorrhoids, scrotal eczema, bleeding due to external injury. Isolated compounds: 3490, 3493, 4055, 5519, 8095, 8108, 13098.
- T4837 *Phyllanthus emblica* (Euphorbiaceae); YOU GAN YE; Emblic Leafflower Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, disinhibit damp and disperse swelling. TCM Indications: Mouth sore, clove sore, eczema, dermatitis, edema, hypertension, poisonous snake bite, knocks and falls. Isolated compounds: 1065, 1764, 3490, 3493, 4055, 5519, 6923, 7278, 7279, 7282, 7285, 8095, 8108, 11642, 12020, 12082, 13098, 14200, 14345, 15063, 15184, 15279, 15280, 15281, 16836, 18003, 18317, 18411, 19087, 21053, 21054, 22078.
- T4838 *Phyllanthus flexuosus* (Euphorbiaceae); LUO E YE XIA ZHU; Flexuose Leafflower\*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp. TCM Indications: Allergic dermatitis, infantile night crying, snake bite, wind-damp. Isolated compounds: 2331, 13094, 13098.
- T4839 *Phyllanthus myrtifolius* (Euphorbiaceae); YIN DU SI LI LAN KA YE XIA ZHU; Indian-Sri-Lankan Leafflower\*. Isolated compounds: 18662.
- T4840 *Phyllanthus niruri* (Euphorbiaceae); ZHU ZI CAO; Nirur Leafflower\*. Used part: whole herb. TCM Effects: To clear heat, disinhibit damp, transform phlegm and resolve toxin. TCM Indications: Jaundice, diarrhea, dysentery, heat strangury, stone strangury, edema, phlegm cough, red eyes with gall, poisonous snake bite. Isolated compounds: 15622, 15623, 15624, 15625, 15626, 15627, 17215, 17231, 18624.
- T4841 *Phyllanthus piscatorum* (Euphorbiaceae); YU FU YE XIA ZHU; Fisherman Leafflower\*. Isolated compounds: 11978, 17478.
- T4842 *Phyllanthus reticulatus* (Euphorbiaceae); LONG YAN JING; Reticulate Leafflower\*. Used part: root, stem-leaf. TCM Effects: To dispel wind, disinhibit damp and quicken blood. TCM Indications: Pain in joints due to rheumatism, hepatitis, nephritis, enteritis, dysentery, knocks and falls. Isolated compounds: 18265.
- T4843 *Phyllanthus urinaria* (Euphorbiaceae); YE XIA ZHU; Common

- Leafflower. Used part: whole herb with root. TCM Effects: To clear heat and calm liver, disinhibit water and resolve toxin. TCM Indications: Cough, enteritis, dysentery, infective hepatitis, nephritis with edema, urinary tract infection, child *gan* accumulation, acute conjunctivitis nephelium, mouth sore, head sore, innominate toxin swelling. Isolated compounds: 4055, 5052, 5282, 8095, 12020, 14160, 17223, 17224, 18317, 19087, 21956, 22257, 22258.
- T4844 *Phyllostachys edulis* (Poaceae); MENG ZONG ZHU; Edible Bamboo. Isolated compounds: 17229, 17230.
- T4845 *Physalis alkekengi* (Solanaceae); SUAN JIANG; Japanese-lantern. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit pharynx and larynx, disinhibit urine and free stool. TCM Indications: Acute tonsillitis, swelling pain in throat, laryngeal infection in children, lung heat cough, jaundice, dysentery, edema, dribbling urination, fecal stoppage, yellow-water sore, eczema, erysipelas. Isolated compounds: 4293, 17239, 17240, 17241, 17242, 21372.
- T4846 *Physalis alkekengi* var. *franchetii* (Solanaceae); GUA JIN DENG; Franchet Groundcherry. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Heat cough, throat pain, jaundice, dysentery, edema, clove sore, erysipelas. Isolated compounds: 12488, 17243, 17244, 17245, 17246, 21372.
- T4847 *Physalis alkekengi* var. *franchetii* (Solanaceae); GUA JIN DENG GEN; Franchet Groundcherry Root. Used part: root. TCM Effects: To clear heat and disinhibit water. TCM Indications: Malaria, jaundice, mounting *qi*. Isolated compounds: 17238.
- T4848 *Physalis angulata* (Solanaceae); KU ZHI; Cutleaf Groundcherry. Used part: whole herb. TCM Effects: To clear heat, disinhibit urine, resolve toxin, disperse swelling. TCM Indications: Common cold, lung heat cough, swelling pain in throat, gum swelling and pain, damp-heat jaundice, dysentery, edema, heat strangury, heaven-borne sore, clove sore. Isolated compounds: 17240.
- T4849 *Physalis chenopodifolia* (Solanaceae). Isolated compounds: 17232, 17233, 17234, 17235, 17236.
- T4850 *Physalis ixocarpa* (Solanaceae); NIAN XING GUO SHI SUAN JIANG. Isolated compounds: 11804.
- T4851 *Physalis minima* (Solanaceae); TIAN PAO ZI; Little Groundcherry. Used part: whole herb or fruit. TCM Effects: To percolate damp and kill worms. TCM Indications: Jaundice, inhibited urination, chronic cough and asthma, *gan* disease, scrofula, heaven-borne sore, damp sore. Isolated compounds: 7187, 22716, 22717.
- T4852 *Physalis peruviana* (Solanaceae); DENG LONG CAO; Peruvian Groundcherry. Used part: whole herb. TCM Effects: To clear heat and move *qi*, disperse swelling and relieve pain. TCM Indications: Common cold, epidemic parotitis, throat pain, cough, abdominal distention, mounting *qi*, heaven-borne sore. Isolated compounds: 1563, 1567, 6731, 7214, 8637, 16858, 16995, 18390, 18391.
- T4853 *Physalis philadelphica* (Solanaceae); FEI CHENG SUAN JIANG; Philadelphia Groundcherry\*. Isolated compounds: 1391, 1392, 1451, 1452, 1453, 1454, 1455, 1456, 3568, 5657, 5671, 5672, 10827, 11804, 21834, 22705, 22715.
- T4854 *Physalis pubescens* (Solanaceae); KU ZHI; Downy Groundcherry. Used part: herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Common cold, lung heat cough, swelling pain in throat, gum swelling, damp-heat jaundice, dysentery, edema, heat strangury, heaven-borne sore, clove sore. Isolated compounds: 17238.
- T4855 *Physeter catodon* (Physeteridae); LONG XIAN XIANG; Ammbergris. Used part: dried secretion in intestines of sperm whales. TCM Effects: To transform phlegm and calm asthma, move *qi* and dissipate binds, disinhibit water and free strangury. TCM Indications: *Qi* counterflow with cough and asthma, oppression in chest and *qi* bind, concretion conglomeration accumulation and gathering, pain in heart and abdomen, clouded spirit, strangury syndrome. Isolated compounds: 21046.
- T4856 *Physeter catodon* (Physeteridae); MO XIANG JING; Cachalot. Isolated compounds: 1026.
- T4857 *Physochlaina alaica* (Solanaceae); YI PAO NANG CAO; Winged Physochlaina\*. Isolated compounds: 2218.
- T4858 *Physochlaina infundibularis* (Solanaceae); LOU DOU PAO NANG CAO; Funneled Physochlaina. Used part: root. TCM Effects: To dispel phlegm, relieve cough and calm asthma. TCM Indications: Cough and asthma with abundant phlegm. Isolated compounds: 2001.
- T4859 *Physochlaina physaloides* (Solanaceae); PAO NANG CAO; Common Physochlaina. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, dispel damp and kill worms (herb), warm center and supplement vacuity, quiet spirit and settle asthma (root). TCM Indications: Otitis media, nasosinusitis, swelling pain in throat, swelling toxin of sore and welling abscess, headache (herb), vacuity cold diarrhea, taxation damage, cough of phlegm asthma, disquieted heart spirit (root). Isolated compounds: 4417, 15416.
- T4860 *Physostigma venenosum* (Fabaceae); DU BIAN DOU; Deadly Calabarbean. Isolated compounds: 7379, 7380, 7381, 17253, 20369. *Phytolacca acinosa* = *Phytolacca esculenta*
- T4861 *Phytolacca americana* [Syn. *Phytolacca decandra*] (Phytolaccaceae); MEI SHANG LU; American Pokeweed. Used part: root. TCM Effects: See *Phytolacca esculenta*. TCM Indications: See *Phytolacca esculenta*. Isolated compounds: 266, 1034, 1035, 1036, 2322, 7368, 7370, 7374, 8750, 11209, 11210, 11211, 14132, 16050, 16299, 16569, 16570, 17266, 17267, 17268, 17269, 17270, 17271, 17770, 18322, 20168, 22768, 22822. *Phytolacca decandra* = *Phytolacca americana*
- T4862 *Phytolacca dioica* (Phytolaccaceae); A GEN TING SHANG LU; Ombutree Pokeberry. Isolated compounds: 16093.
- T4863 *Phytolacca dodecandra* (Phytolaccaceae); SHI ER RUI SHANG LU; Decapitil Pokeweed\*. Isolated compounds: 2179, 12621, 16044.
- T4864 *Phytolacca esculenta* [Syn. *Phytolacca acinosa*] (Phytolaccaceae); SHANG LU; Indian Pokeweed. Equivalent plant: *Phytolacca americana*. Used part: root. TCM Effects: To expel water and disperse swelling, disinhibit urine and free stool, resolve toxin and dissipate binds. TCM Indications: Edema distention fullness, urinary and fecal stoppage, swelling toxin of welling abscess and sore. Isolated compounds: 471, 545, 546, 547, 548, 7025, 7368, 7369, 7370, 7371, 7372, 7373, 7374, 9568, 11421, 11812.
- T4865 *Phytolacca icosandra* (Phytolaccaceae); ER SHI RUI SHANG LU; Icosandrous Pokeweed\*. Isolated compounds: 19333, 19334, 19335,

- 19336, 19337, 19338, 19339, 19340, 19341.
- T4866 *Phytolacca octandra* (Phytolaccaceae); AO ZHOU SHANG LU; Octapistil Pokeweed\*. Isolated compounds: 22903.
- T4867 *Phytolacca polyandra* (Phytolaccaceae); DUO XIONG RUI SHANG LU; Polyandrous Pokeweed. Isolated compounds: 4533.
- T4868 *Phytolacca* spp. (Phytolaccaceae). Isolated compounds: 12642, 17267.
- T4869 *Picea abies* (Pinaceae); OU ZHOU YUN SHAN; Common Spruce. Isolated compounds: 4140, 11673, 17278.
- T4870 *Picea glehnii* (Pinaceae); SA HA LIN YUN SHAN; Saghalin Spruce. Isolated compounds: 10583, 17283, 17409, 18643.
- T4871 *Picea jezoensis* (Pinaceae); RI BEN YU LIN SONG; Yeddo Spruce. Isolated compounds: 7145, 7166, 7169, 10702, 14091, 17409.
- T4872 *Picea jezoensis* var. *jezoensis* (Pinaceae); YU LIN YUN SHAN; Yeddo Spruce. Isolated compounds: 7167, 14090.
- T4873 *Picea koraiensis* (Pinaceae); HONG PI YUN SHAN; Korean Spruce. Used part: Branch-leaf and bark. TCM Effects: To expel wind and eliminate damp. TCM Indications: Wind-damp impediment pain. Isolated compounds: 5763.
- T4874 *Picea morrisonicola* (Pinaceae); TAI WAN YUN SHAN; Taiwan Spruce. Isolated compounds: 271, 16307, 17275, 17276, 17277.
- T4875 *Picea obovata* (Pinaceae); XI BO LI YA YUN SHAN; Siberian Spruce. Isolated compounds: 11314, 15360.
- T4876 *Picea sitchensis* (Pinaceae); XI TE KA YUN SHAN; Sitka Spruce. Isolated compounds: 17456.
- T4877 *Picea* sp. (Pinaceae). Isolated compounds: 1951, 3194, 13594, 15555.
- T4878 *Picea* spp. (Pinaceae). Isolated compounds: 17287.
- Picrasma ailanthoides* = *Picrasma quassioides*
- T4879 *Picrasma crenata* (Simaroubaceae); YUAN CHI KU MU; Crenate Quassia-wood\*. Isolated compounds: 3096, 3158.
- T4880 *Picrasma excelsa* (Simaroubaceae); YA MAI JIA KU MU; Jamaica Quassia-wood. Isolated compounds: 15549, 15561.
- T4881 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (Simaroubaceae); KU MU; Indian Quassia-wood. Used part: wood. TCM Effects: To clear heat and resolve toxin, dry damp and kill worms. TCM Indications: Infection of upper respiratory tract, pneumonia, acute gastroenteritis, dysentery, sore and boil, scab and lichen, eczema, burns and scalds, infection of biliary tract, poisonous insect stings. Isolated compounds: 344, 3096, 3156, 3158, 7908, 12334, 12335, 15454, 15542, 15546, 15547, 15552, 15554, 15555, 15561, 17327, 18299.
- T4882 *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (Simaroubaceae); KU SHU PI; Indian Quassia-wood Bark. Used part: bark. TCM Effects: To clear heat and disinhibit damp, resolve toxin and kill worms. TCM Indications: Bacillary dysentery, infection of biliary tract, suppurative infection, scab and lichen, eczema, snake bite. Isolated compounds: 3096, 3156, 3158, 3159, 3160, 3161, 5418, 6152, 6257, 6297, 7433, 7459, 7898, 10479, 10584, 10770, 12332, 12333, 12334, 12335, 12373, 14211, 14218, 14520, 15454, 15542, 15543, 15544, 15545, 15546, 15547, 15548, 15550, 15551, 15552, 15553, 15554, 15555, 15556, 15557, 15558, 15559, 15560, 15561, 17298, 17299, 17300, 17301, 17302, 17303, 17305, 17306, 17307, 17308, 17309, 17310, 17311, 17312, 17313, 17314, 17315, 17316, 17317, 17318, 17319, 17320, 17321, 17322, 17323, 17324, 17325, 17326, 17327, 18299, 19900, 21407, 22516.
- T4883 *Picrasma* sp. (Simaroubaceae). Isolated compounds: 15454.
- T4884 *Picria felterrae* (Scrophulariaceae); KU XUAN SHEN; Common Bitterfigwort. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Wind-heat common cold, swelling pain in throat, mumps, swollen boil, diarrhea and dysentery, hemorrhoids, eczema, poisonous snake bites, knocks and falls. Isolated compounds: 4883, 9517, 17288, 17289, 17290, 17291, 17292, 17293, 17294, 17295, 21985.
- T4885 *Picris kamschatica* (Asteraceae); KAN CHA JIA MAO LIAN CAI; Kamchatka Oxtongue. Isolated compounds: 6143, 10012.
- T4886 *Picrodendron baccatum* JIANG GUO KU SHU. Isolated compounds: 17332, 17333, 17334, 17335, 17336.
- T4887 *Picrorhiza kurroa* (Scrophulariaceae); HU HUANG LIAN; Picrorhiza. Equivalent plant: *Picrorhiza scrophulariaeflora*. Used part: rhizome. TCM Effects: To lower vacuity heat, eliminate gan fever, clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Steaming bone tidal fever due to yin vacuity, night sweating, child gan accumulation, indigestion, abdominal distention and emaciation, dysentery, fever, gastrointestinal damp-heat diarrhea, hemorrhoids. Isolated compounds: 117, 1162, 1826, 1827, 5763, 7768, 9476, 9477, 12376, 13504, 14871, 16821, 16853, 17287, 17344, 17345, 17346, 22341, 22415.
- T4888 *Picrorhiza scrophulariiflora* (Scrophulariaceae); XI ZANG HU HUANG LIAN; Figwortflower Picrorhiza. Used part: rhizome. TCM Effects: See *Picrorhiza kurroa*. TCM Indications: See *Picrorhiza kurroa*. Isolated compounds: 1162, 2004, 3306, 3695, 6081, 7768, 7773, 9347, 10442, 13504, 17344, 17345, 17510, 17511, 17287, 17483, 17484, 17485, 19572, 19573, 22332.
- T4889 *Pieris formosa* (Ericaceae); MEI LI MA ZUI MU; Taiwan Pieris\*. Isolated compounds: 17353, 17354, 17355, 17356, 17357.
- T4890 *Pieris japonica* (Ericaceae); RI BEN MA ZUI MU; Japanese Pieris. Used part: leaf. TCM Effects: To kill worms. TCM Indications: Scab sore. Isolated compounds: 1848, 1849, 1850, 8994, 17170.
- T4891 *Pilocarpus jaborandi* (Rutaceae); MAO GUO YUN XIANG. Isolated compounds: 17360.
- T4892 *Pimelea prostrata* (Thymelaeaceae); PING WO DAO HUA; Prostrate Rice-flower\*. Isolated compounds: 17958.
- T4893 *Pimelea simplex* (Thymelaeaceae); DAN ZHI DAO HUA; Simplex Rice-flower\*. Isolated compounds: 19902.
- T4894 *Pimenta dioica* (Myrtaceae); DUO XIANG GUO; Allspice. Isolated compounds: 3559, 7521.
- T4895 *Pimpinella anisum* (Apiaceae); HUI QIN; Anise. Isolated compounds: 1184, 1185, 1186, 1282, 4234, 5172, 7389, 7522, 9025, 9026, 9027, 9513, 9740, 9784, 9916, 10454, 10631, 10632, 10633, 10634, 10635, 14059, 14420, 14421, 14422, 14423, 14424, 14425, 14426, 14427, 14476, 14735.
- T4896 *Pimpinella aurea* (Apiaceae). Isolated compounds: 14603.
- T4897 *Pimpinella corymbosa* (Apiaceae). Isolated compounds: 14029, 17925.
- T4898 *Pimpinella isaurica* (Apiaceae). Isolated compounds: 14028, 14030, 14079, 17924, 17926.
- T4899 *Pimpinella magna* (Apiaceae); DA HUI QIN; Big Anise\*. Isolated

- compounds: 11249, 17375.
- T4900 *Pimpinella saxifraga* (Apiaceae); HU ER CAO YE HUI QIN; Burnet-saxifrage. Isolated compounds: 11249, 17375.
- T4901 *Pimpinella* sp. (Apiaceae). Isolated compounds: 22195.
- T4902 *Pimpinella thelungiana* (Apiaceae); YANG HONG SHAN; Thellung Pimpinella. Used part: root or whole herb. TCM Effects: To boost *qi* and fortify spleen, nourish heart and quiet spirit, relieve cough and dispel phlegm. TCM Indications: Kersan disease, palpitation and shortness of breath, cough. Isolated compounds: 7406, 7407, 14003, 16895, 16896, 21308, 21309.
- T4903 *Pinellia pedatisecta* (Araceae); ZHANG YE BAN XIA; Pedate Pinellia. Used part: tuber. TCM Effects: See *Arisaema consanguineum*. TCM Indications: See *Arisaema consanguineum*. Isolated compounds: 618, 4463, 4464, 4510, 4526, 7334, 10520, 10913, 11631, 14752, 14780, 14802, 16759, 16760, 17095, 17906, 17907, 19983, 22237, 22329.
- T4904 *Pinellia ternata* (Araceae); BAN XIA; Ternate Pinellia. Used part: tuber. TCM Effects: To eliminate damp and resolve cold phlegm, downbear counterflow and check vomiting, disperse glomus and dissipate binds. TCM Indications: Cough and asthma with abundant phlegm, vomiting nausea, glomus in chest, dizziness, headache, vexation and agitation in night, goiters with phlegm node, swelling toxin of welling abscess and flat abscess. Isolated compounds: 832, 1047, 1673, 1886, 2458, 3589, 3988, 4680, 5763, 6815, 8672, 8817, 9071, 9380, 9569, 9608, 13823, 14225, 14334, 15981, 16835, 16862, 17093, 17905, 17968, 19759, 19983, 19987, 21342, 21662, 22169, 22324.
- T4905 *Pinus aristata* (Pinaceae); CI GUO SONG; Bristlecone Pine. Isolated compounds: 3600.
- T4906 *Pinus armandii* (Pinaceae); HUA SHAN SONG; Armand Pine. Used part: leaf. TCM Effects: See *Pinus massoniana*. TCM Indications: See *Pinus massoniana*. Isolated compounds: 16316.
- T4907 *Pinus armandii* var. *masteriana* (Pinaceae); TAI WAN GUO SONG; Masters Pine. Isolated compounds: 17422.
- T4908 *Pinus bungeana* (Pinaceae); BAI PI SONG; Lacebark Pine. Used part: cone. TCM Effects: To dispel phlegm, relieve cough, calm asthma. TCM Indications: Chronic trachitis, asthma, cough and shortness of breath, abundant phlegm. Isolated compounds: 12843.
- T4909 *Pinus cembra* (Pinaceae); RUI SHI SHI SONG; Arolla Pine. Isolated compounds: 17403.
- T4910 *Pinus excelsa* (Pinaceae); QIAO GUI; Bhutan Pine. Isolated compounds: 3600.
- T4911 *Pinus kesiya* (Pinaceae); KA XI YA SONG; Khasya Pine. Isolated compounds: 17056.
- T4912 *Pinus koraiensis* (Pinaceae); HAI SONG ZI; Korean Pine Seed. Used part: seed. TCM Effects: To moisten dryness, nourish blood, dispel wind. TCM Indications: Dry cough due to lung dryness, vacuity constipation, joints wind, wind impediment. Isolated compounds: 711, 3194, 3385, 6293, 6482, 6937, 11314, 12455, 12843, 14285, 14548, 15332, 15735, 15736, 16555, 17390, 17426.
- T4913 *Pinus koraiensis* (Pinaceae); HONG SONG; Korean Pine. Isolated compounds: 17422.
- T4914 *Pinus laricio* (Pinaceae); KE XI JIA SONG; Corsican Pine. Isolated compounds: 7768.
- T4915 *Pinus maritime* (Pinaceae). Isolated compounds: 5699.
- T4916 *Pinus massoniana* (Pinaceae); MA WEI SONG YE; Masson Pine Leaf. Equivalent plant: *Pinus armandii*. Used part: leaf. TCM Effects: To dispel wind and dry damp, kill worms and relieve itch, quicken blood and quiet spirit. TCM Indications: Wind-damp impediment pain, beriberi, damp sore, lichen, wind papule itching, knocks and falls, neurasthenia, chronic nephritis, hypertension, prevention of influenza and encephalitis B. Isolated compounds: 10996, 13582, 13583, 13584, 13585, 13586, 13587, 13588, 17376.
- T4917 *Pinus massoniana* (Pinaceae); SONG XIANG; Colophony. Used part: residue left after distillation of turpentine oil from crude oleo-resin of various spp. of *Pinus*. TCM Effects: To dispel wind and dry damp, expel pus and draw out toxin, engender flesh and relieve pain. TCM Indications: Malign sores with welling abscess and flat abscess, scrofula, fistula, scab and lichen, bald white scalp sore, leprosy, impediment, incised wound, sprain, leukorrhea, thromboangitis obliterans (Buerger's disease), clove sore, hemorrhoids, itchy skin. Isolated compounds: 10, 15333, 16572.
- T4918 *Pinus monticola* (Pinaceae); JIA ZHOU SHAN SONG; Californian Mountain Pine. Isolated compounds: 3600.
- T4919 *Pinus palustris* (Pinaceae); CHANG YE SONG; Long-leaved Pine. Isolated compounds: 11600, 12955, 15805, 15806.
- T4920 *Pinus radiata* (Pinaceae); FU SHE SONG; Monterey Pine. Isolated compounds: 3767, 7751, 15663, 17055, 17888.
- T4921 *Pinus resinosa* (Pinaceae); DUO ZHI SONG; Red Pine. Isolated compounds: 9740.
- T4922 *Pinus rigida* (Pinaceae); GANG SONG; Northern Pitch Pine. Isolated compounds: 18641.
- T4923 *Pinus sibirica* (Pinaceae); XI BO LI YA HONG SONG; Siberian Stone Pine. Isolated compounds: 11314, 17422, 18643, 18650.
- T4924 *Pinus* sp. (Pinaceae). Isolated compounds: 1074, 1282, 5694, 12955, 15555, 17409, 17420, 17421, 18003.
- T4925 *Pinus* spp. (Pinaceae). Isolated compounds: 17399.
- T4926 *Pinus sylvestris* (Pinaceae); OU ZHOU CHI SONG; Scotch Pine. Isolated compounds: 1169, 7385, 21022.
- T4927 *Pinus taeda* (Pinaceae); TAI DA SONG; Loblolly Pine, Old Field Pine. Isolated compounds: 1655, 17888, 17890.
- T4928 *Piper aduncum* (Piperaceae); GOU ZHUANG HU JIAO; Hooked Pepper\*. Isolated compounds: 1343, 6193, 6383, 17430, 17431, 17432.
- T4929 *Piper aequale* (Piperaceae); TE LI NI DA HU JIAO; Trinidad Pepper\*. Isolated compounds: 5644, 6423, 14380.
- T4930 *Piper* aff. *pedicellatum* (Piperaceae). Isolated compounds: 2563.
- T4931 *Piper angustifolium* (Piperaceae); XIA YE HU JIAO; Matico Pepper. Isolated compounds: 1520, 1835.
- T4932 *Piper arboreum* (Piperaceae); QIAO MU HU JIAO; Arboreous Pepper\*. Isolated compounds: 1612, 16388.
- T4933 *Piper attenuatum* (Piperaceae); LUAN YE HU JIAO; Ovateleaf Pepper. Isolated compounds: 17463, 17466.
- T4934 *Piper aurantiacum* (Piperaceae). Isolated compounds: 17449.
- T4935 *Piper banksii* (Piperaceae); BAN KE HU JIAO; Bank Pepper\*. Isolated compounds: 6745.

- T4936 *Piper bavinum* (Piperaceae); XIAN MAI JU; Glandularnerve Pepper. Isolated compounds: 22628.
- T4937 *Piper betle* (Piperaceae); JU JIANG YE; Betel Pepper Leaf. Used part: leaf. TCM Effects: To course wind and dissipate cold, move *qi* and transform phlegm, resolve toxin and disperse swelling, dry damp and resolve itch. TCM Indications: Wind-cold cough, asthma, pertussis, distending pain in stomach duct, edema, wound swelling from knocks and falls, wind-damp bone pain, toxin swelling of sores, burns and scalds, wind toxin and beriberi, scab and *lai*, eczema titillation. Isolated compounds: 955, 2850, 3231, 3486, 3488, 7521, 7523.
- T4938 *Piper boehmeriaefolium* (Piperaceae); ZHU YE JU; Falsenettleleaf Pepper. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold, dispel damp and free network vessels, move *qi* and relieve pain. TCM Indications: Common cold due to wind-cold, wind-damp impediment pain, stomachache, menstrual disorder [=menoxenia], knocks and falls, fracture. Isolated compounds: 15725, 17463, 17464, 17465, 17466.
- T4939 *Piper brachystachyum* (Piperaceae); DUAN SUI HU JIAO; Shortspike Pepper\*. Isolated compounds: 2575, 2576, 2577, 17436.
- T4940 *Piper cenocladum* (Piperaceae). Isolated compounds: 3386, 5259, 17472.
- T4941 *Piper chaba* (Piperaceae). Isolated compounds: 4961, 11273, 11281, 14678, 16384, 17440, 17441, 17442, 17443, 17451, 17461, 18658.
- T4942 *Piper clarkii* (Piperaceae). Isolated compounds: 17447.
- T4943 *Piper crassinervium* (Piperaceae); CU YE MAI HU JIAO; Grossnerve Pepper\*. Isolated compounds: 5859, 5860, 6041, 15279, 19172.
- T4944 *Piper cubeba* (Piperaceae); BI CHENG QIE; Cubeba Pepper. Used part: fruit. TCM Effects: To warm center and dissipate cold, move *qi* and relieve pain, warm kidney. TCM Indications: Stomach cold with retching counterflow, distention fullness, cold pain in stomach duct and abdomen, rumbling intestines and diarrhea, cold mounting with abdominal pain, cold-damp dribbling urination and turbid urine. Isolated compounds: 1834, 1840, 2357, 3761, 3762, 3851, 4304, 4305, 4306, 4307, 4308, 4309, 4310, 5543, 5561, 5572, 7114, 7400, 9343, 9471, 9949, 13391, 13640, 13898, 14264, 16340, 17447, 17448, 21345, 21928, 22989.
- T4945 *Piper elongatum* (Piperaceae); CHANG HU JIAO. Isolated compounds: 2835, 17427, 17428.  
*Piper futokadsura* = *Piper kadsura*
- T4946 *Piper guineense* (Piperaceae); JI NEI YA HU JIAO; Ashanti Pepper. Isolated compounds: 5572, 16387, 17451.
- T4947 *Piper hamiltonii* (Piperaceae). Isolated compounds: 17463.
- T4948 *Piper hancei* (Piperaceae); SHAN JU; Hance Pepper. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood and disperse swelling, move *qi* and relieve pain, transform stagnation and relieve pain. TCM Indications: Wind-cold-damp impediment, stomachache, dysmenorrhea, knocks and falls, wind-cold cough, mounting *qi*. Isolated compounds: 2760, 8035, 8040, 9208, 9209, 9210, 9211, 22628.
- T4949 *Piper hispidum* (Piperaceae); YING MAO HU JIAO; Hispid Pepper\*. Isolated compounds: 11280, 14020, 17438.
- T4950 *Piper kadsura* [Syn. *Piper futokadsura*] (Piperaceae); HAI FENG TENG; Kadsura Pepper. Used part: stem. TCM Effects: To dispel wind-damp, free channels and network vessels, relieve pain due to impediment. TCM Indications: Wind-cold-damp impediment, aching sinews in limb joints, hypertonicity of sinews and vessels. Isolated compounds: 592, 1840, 3517, 5135, 6745, 8035, 8036, 8037, 8038, 8039, 8040, 8041, 8086, 8088, 8093, 11269, 12005, 12006, 12007, 12008, 12009, 12010, 12013, 13293, 13295, 17265, 17460, 19983, 20369, 22060, 22383, 23030.
- T4951 *Piper laetispicum* (Piperaceae); DA YE JU; Largeleaf Piper\*. Used part: whole herb. TCM Effects: To quicken blood, disperse swelling, relieve pain. TCM Indications: Knocks and falls, static blood swelling pain. Isolated compounds: 12449.
- T4952 *Piper lhotzkyanum* (Piperaceae). Isolated compounds: 12157.
- T4953 *Piper longum* (Piperaceae); BI BA; Long Pepper. Used part: fruit-spike. TCM Effects: To warm center and dissipate cold, precipitate *qi* and relieve pain. TCM Indications: Cold pain in stomach duct and abdomen, vomiting, diarrhea, headache, toothache, deep-source nasal congestion, coronary heart disease, angina pectoris. Isolated compounds: 2284, 9083, 9485, 11269, 12574, 17450, 17451, 17461, 17471, 17472, 19777, 20523, 21078, 22227.
- T4954 *Piper longum* (Piperaceae); BI BA GEN; Long Pepper Root. Used part: root. TCM Effects: To warm center and move *qi*, downbear counterflow and disperse food, dissipate cold and relieve pain. TCM Indications: Taxation damage, genital sweating, node swelling, cold *qi* retching, distention fullness in heart and abdomen, food accumulation, cold mounting, infertility due to uterus cold, lumbus kidney cold. Isolated compounds: 14791, 17429, 17451, 17461, 17463, 17464, 17465, 17466, 17472.
- T4955 *Piper methysticum* (Piperaceae); KA WA HU JIAO; Kava Pepper. Isolated compounds: 2043, 4936, 5677, 7188, 12184, 13915, 14820, 17462, 22882.
- T4956 *Piper mullesua* (Piperaceae); DUAN JU; Globular Pepper. Used part: whole plant. TCM Effects: To expel wind and dissipate cold, dissipate stasis and relieve pain, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, numbness in limbs, externally contracted wind-cold, cough and asthma, cold pain in stomach duct and abdomen, knocks and falls, menstrual disorder, dysmenorrhea, postpartum abdominal pain, toothache, swelling pain of sore and boil, scalds, snake or insect bites. Isolated compounds: 15318, 15319.
- T4957 *Piper nigrum* (Piperaceae); HU JIAO; Black Pepper. Used part: fruit. TCM Effects: To warm center and dissipate cold, precipitate *qi*, disperse phlegm. TCM Indications: Vomiting with stomach cold, abdominal pain and diarrhea, inappetence, convulsion, epilepsy and profuse phlegm. Isolated compounds: 3487, 4288, 6465, 11269, 11270, 11271, 11272, 11274, 11282, 11283, 13723, 13724, 13726, 13727, 13770, 15446, 16306, 16318, 16319, 16325, 16382, 16383, 16384, 16385, 16386, 16387, 16388, 16389, 16390, 16391, 16392, 16393, 16405, 16406, 17401, 17434, 17435, 17436, 17437, 17438, 17438, 17439, 17444, 17445, 17449, 17451, 17451, 17456, 17468, 17469, 17470, 17473, 17474, 18657, 19371, 19378, 19788, 20991.
- T4958 *Piper nove-hollandae* (Piperaceae); XIN HE LAN HU JIAO; Novel-Holland Pepper\*. Isolated compounds: 6193.
- T4959 *Piper peepuloides* (Piperaceae). Isolated compounds: 17424.



- T4960 *Piper peltatum* (Piperaceae); DUN YE HU JIAO; Peltateleaf Pepper\*. Isolated compounds: 6379, 15505.
- T4961 *Piper polysyphorum* (Piperaceae); ZHANG YE HU JIAO; Camphortreeleaf Pepper. Isolated compounds: 8040, 17688, 22528, 22628.
- T4962 *Piper puberulum* (Piperaceae); MAO JU; Hairy Pepper. Used part: whole herb. TCM Effects: To dispel wind and dissipate cold and eliminate damp, move *qi* and quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, wind-cold headache, pain in stomach duct and abdomen, mounting *qi* (hernia), menstrual pain, painful swelling from knocks and falls. Isolated compounds: 22628.
- T4963 *Piper regnelli* (Piperaceae). Isolated compounds: 10056, 10088, 14367, 14503.
- T4964 *Piper retrofractum* (Piperaceae); CHANG GUO BI BA; Petrofracted Pepper. Used part: fruit. TCM Effects: To warm center and fortify stomach, dispel cold and relieve pain. TCM Indications: Stomach cold pain, distention fullness in stomach duct. Isolated compounds: 2576, 17444, 18657, 18659, 18660, 21907.
- T4965 *Piper sarmentosum* (Piperaceae); JIA JU; Sarmentose Pepper. Used part: stem-leaf or whole herb. TCM Effects: To dispel wind and dissipate cold, move *qi* and relieve pain, quicken network vessels, disperse swelling. TCM Indications: Wind-cold cough, wind-damp impediment pain, distention fullness in stomach duct, diarrhea and dysentery, postpartum foot edema, knocks and falls. Isolated compounds: 957, 1832.
- T4966 *Piper sarmentosum* (Piperaceae); JIA JU ZI; Sarmentose Pepper Spike. Used part: fruit spike. TCM Effects: To warm center and dissipate cold, move *qi* and relieve pain, transform damp and disperse swelling. TCM Indications: Distending pain in stomach duct, cold-damp diarrhea, wind-damp impediment pain, mounting *qi*, toothache, edema. Isolated compounds: 14382, 17130, 19368, 19369, 19370, 19371, 19378.
- T4967 *Piper solmsianum* (Piperaceae). Isolated compounds: 6348, 8979, 14384.
- T4968 *Piper* spp. (Piperaceae); *Piper* spp. Isolated compounds: 10792.
- T4969 *Piper sulvaticum* (Piperaceae); CHANG BING HU JIAO; Longstalk Pepper\*. Isolated compounds: 17472.
- T4970 *Piper taiwanense* (Piperaceae); TAI WAN HU JIAO; Taiwan Pepper\*. Isolated compounds: 955, 1695, 2891, 3408, 3694, 3723, 6216, 6466, 7521, 10416, 17463, 17464, 17465, 17467, 22615.
- T4971 *Piper trichostachyon* (Piperaceae); MAO SUI HU JIAO; Hairspike Pepper\*. Isolated compounds: 4536, 17435.
- T4972 *Piper tuberculatum* (Piperaceae); LIU TU HU JIAO; Tuberculate Pepper\*. Isolated compounds: 1612, 5695, 16388, 17439, 21904, 21908.
- T4973 *Piper umbellatum* (Piperaceae); SAN XING HU JIAO; Umbellate Pepper\*. Isolated compounds: 6379, 15505.
- T4974 *Piper wallichii* [Syn. *Piper wallichii* var. *hupehense*] (Piperaceae); SHI NAN TENG. Used part: stem-leaf or whole herb. TCM Effects: To dispel wind-damp, strengthen lumbus and knees, supplement kidney and invigorate *yang*, relieve cough and calm asthma, quicken blood and relieve pain. TCM Indications: Wind-cold-damp impediment, aching in lumbus and knees, impotence, cough and asthma, dysmenorrhea, painful swelling from knocks and falls. Isolated compounds: 22628.  
*Piper wallichii* var. *hupehense* = *Piper wallichii*  
*Piptanthus mongolicus* = *Ammopiptanthus mongolicus*
- T4975 *Piptanthus nanus* (Fabaceae); XIAO SHA DONG QING; Small *Piptanthus*\*. Used part: stem-leaf. TCM Effects: See *Ammopiptanthus mongolicus*. TCM Indications: See *Ammopiptanthus mongolicus*. Isolated compounds: 16206.
- T4976 *Piptanthus nepalensis* (Fabaceae); HUANG HUA MU; Greenleaf *Piptanthus*, Evergreen Laburnum. Used part: seed. TCM Effects: To clear liver and brighten eyes, moisten intestines and free stool. TCM Indications: Headache due to externally contracted wind-heat, conjunctivitis, hypertension, chronic constipation. Isolated compounds: 4604, 8278, 8282, 20099.
- T4977 *Piscidia erythrina* YA MAI JIA DU YU DOU; *Piscidia erythrina*. Isolated compounds: 17479, 17481, 17482.
- T4978 *Pisolithus tinctorius* [Syn. *Lycoperdon capitatum*; *Scleroderma tinctorium*] (Sclerodermataceae); DOU BAO JUN; Dye-maker's False Puffball. Used part: sporocarp. TCM Effects: To stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Stomach and esophagus hemorrhage, bleeding due to external injury, frostbite flowing water and pus. Isolated compounds: 15717, 17492.
- T4979 *Pistacia chinensis* (Anacardiaceae); HUANG LIAN YA; Chinese Pistache. Used part: leaf and bud. TCM Effects: To clear summerheat, engender liquid, resolve toxin, disinhibit damp. TCM Indications: Summerheat-heat thirst, swelling pain in throat, oral ulcer, vomiting and dysentery, strangury syndrome, innominate toxin swelling, sore and papules. Isolated compounds: 5613, 5614, 5699, 7802, 8095.
- T4980 *Pistacia lentiscus* (Anacardiaceae); XIANG HUANG LIAN MU; Mastic-tree. Isolated compounds: 17055.
- T4981 *Pistacia terebinthus* (Anacardiaceae); RU DU XIANG; Turpentine Tree. Isolated compounds: 6502, 10363, 13591, 14979.
- T4982 *Pistacia vera* (Anacardiaceae); A YUE HUN ZI; Common Pistache. Used part: fruit. TCM Effects: To warm kidney, warm spleen. TCM Indications: Kidney vacuity lumbar cold, impotence, spleen vacuity cold dysentery. Isolated compounds: 4439.
- T4983 *Pisum sativum* (Fabaceae); WAN DOU; Garden Pea. Used part: seed. TCM Effects: To harmonize center and precipitate *qi*, free milk and disinhibit water, resolve toxin. TCM Indications: Cholera cramp, beriberi with edema, diabetes mellitus, vomiting of sour matter, abdominal distention and diarrhea, scant breast milk, swollen welling abscess. Isolated compounds: 36, 2845, 7996, 8377, 9620, 10165, 12097, 15708, 17477, 17493, 17494, 17495, 17913, 18281, 18398, 19432, 19982, 21662, 22466, 22782, 22815.
- T4984 *Pisum* sp. (Fabaceae). Isolated compounds: 1048.
- T4985 *Pithecolobium dulce* (Fabaceae); NIU TI DOU; Guamachil Apea-earring. Used part: leaf. TCM Effects: To disperse swelling and dispel damp. Isolated compounds: 20169.
- T4986 *Pithomyces chartarum*. Isolated compounds: 20234.
- T4987 *Pittosporum tobira* (Pittosporaceae); HAI TONG; Japanese Pittosporum. Used part: fruit. TCM Indications: mounting pain. Isolated compounds: 13955, 13956, 13957.
- T4988 *Pityrogramma triangularis* (Hemionitidaceae); SAN JIAO FEN YE JUE; Goldback Fern. Isolated compounds: 9423, 21711.

- T4989 *Plagiochasma intermedium* (Grimaldiaceae); WU WEN ZI BEI TAI; Intermediate Plagiochasma. Isolated compounds: 7426.
- T4990 *Plagiochasma rupestre* (Grimaldiaceae); ZI BEI TAI; Argentine Liverwort. Isolated compounds: 19069.
- T4991 *Plagiochila acanthophylla* ssp. *japonica* (Plagiochilaceae); RI BEN DUO CI YU TAI. Isolated compounds: 17500.
- T4992 *Plagiochila asplenioides* (Plagiochilaceae); TIE JIAO JUE YU TAI. Isolated compounds: 1754, 2406, 2407, 6957, 15139, 17498, 17499, 17503, 19679.
- T4993 *Plagiochila carringtonii* (Plagiochilaceae). Isolated compounds: 17496, 17497.
- T4994 *Plagiochila deltoidea* (Plagiochilaceae). Isolated compounds: 7194, 9923, 18915.
- T4995 *Plagiochila rutilans* (Plagiochilaceae). Isolated compounds: 6382, 7461, 7479, 10389, 13917, 14031, 14032, 14076, 14077.
- T4996 *Plagiochila siophila* (Plagiochilaceae). Isolated compounds: 17500.
- T4997 *Plagiogyria dunnii* (Plagiogyriaceae); DAO YE LIU ZU JUE; Dunn's Plagiogyria. Isolated compounds: 17502.
- T4998 *Plagiogyria euphlebica* (Plagiogyriaceae); HUA ZHONG LIU ZU JUE; Fine-nerved Plagiogyria. Used part: rhizome or whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Influenza. Isolated compounds: 17501.
- T4999 *Plagiogyria matsumureana* (Plagiogyriaceae). Isolated compounds: 17501, 17502.
- T5000 *Plagiogyria stenoptera* (Plagiogyriaceae); ER XING LIU ZU JUE; Auriform Plagiogyria. Used part: rhizome or whole herb. TCM Effects: To clear heat and resolve toxin, effuse exterior and relieve cough. TCM Indications: Common cold with headache, cough. Isolated compounds: 17501.
- T5001 *Planchonia grandis* (Sapotaceae); GAO DA SHAN LAN. Isolated compounds: 12057, 12058, 12079.
- T5002 *Plantago asiatica* (Plantaginaceae); CHE QIAN; Asiatic Plantain. Equivalent plant: *Plantago major*, *Plantago depressa*. Used part: whole herb. TCM Effects: To clear heat and disinhibit urine, cool blood, resolve toxin. TCM Indications: Heat bind in bladder, inhibited urination [=dysuria], strangury-turbidity and vaginal discharge, summerheat-damp diarrhea, bloody urine (hematuria), spontaneous external bleeding, swelling toxin of welling abscess and sore. Isolated compounds: 580, 617, 2004, 7426, 9331, 9363, 9617, 10351, 11195, 11529, 12725, 16050, 17505, 17505, 17506, 17507, 17508, 17509, 17510, 17511, 17512, 18219, 18526, 19983, 20255, 20369, 20446, 22270.
- T5003 *Plantago cornuti* (Plantaginaceae); JIAO ZHUANG CHE QIAN; Cornuted Plantain\*. Isolated compounds: 250.
- T5004 *Plantago depressa* (Plantaginaceae); PING CHE QIAN; Depressed Plantain. Used part: whole herb. TCM Effects: See *Plantago asiatica*. TCM Indications: See *Plantago asiatica*. Isolated compounds: 617, 2004, 3052, 16050, 22270.
- T5005 *Plantago hostifolia* (Plantaginaceae); YU ZAN YE CHE QIAN; Jadehairpin-leaf Plantain\*. Isolated compounds: 17510.
- T5006 *Plantago lanceolata* (Plantaginaceae); CHANG YE CHE QIAN; Buckhorn Plantain. Isolated compounds: 580, 2004, 5277, 5278, 12577, 12725, 13580, 17510, 18219.
- T5007 *Plantago major* (Plantaginaceae); DA CHE QIAN; Rippleseed Plantain. Used part: whole herb. TCM Effects: See *Plantago asiatica*. TCM Indications: See *Plantago asiatica*. Isolated compounds: 250, 580, 1892, 2004, 2102, 2106, 3040, 3551, 3674, 3695, 4135, 7768, 7996, 8081, 8307, 9486, 9818, 10351, 11805, 12891, 12952, 13137, 13406, 13656, 15203, 15363, 16050, 17506, 17513, 18219, 19187, 19587, 19983, 20369, 20566, 22170, 22270.
- T5008 *Platanus* sp. (Platanaceae). Isolated compounds: 5283, 5613.
- T5009 *Platanus* spp. (Platanaceae). Isolated compounds: 17399.
- T5010 *Platycarya strobilacea* (Juglandaceae); HUA XIANG SHU YE; Dyetree Leaf. Used part: leaf. TCM Effects: To resolve toxin and cure sores, kill worms and relieve itch. TCM Indications: Swelling toxin of sore and welling abscess, purulence due to bone welling abscess, intractable lichen, scrotal eczema, tinea capitis. Isolated compounds: 6757, 8095, 11903, 20389.  
*Platyclusus orientalis* = *Thuja orientalis*
- T5011 *Platycodon grandiflorum* (Campanulaceae); JIE GENG; Balloonflower. Used part: root. TCM Effects: To diffuse lung, dispel phlegm, disinhibit throat, expel pus. TCM Indications: Cough with profuse phlegm, swelling pain in throat, pulmonary welling abscess with hacking of pus and blood, fullness in chest and rib-side pain, dysentery, dribbling urinary block. Isolated compounds: 487, 488, 2331, 4799, 4800, 8711, 14468, 14549, 14604, 14681, 17529, 17530, 17531, 17532, 17533, 17534, 17535, 17536, 17537, 17538, 17539, 17540, 17541, 17542, 17543, 17544, 17545, 17628, 17629, 17630, 20168, 20169.
- T5012 *Platypodia granulosa*. Isolated compounds: 19431.
- T5013 *Platystemon* spp. Isolated compounds: 3498.
- T5014 *Plectranthus nummularius* (Lamiaceae); YUAN BAN XIANG CHA CAI; Nummulate Rabdosia\*. Isolated compounds: 16680, 16681, 17553, 17554.  
*Plectranthus striatus* = *Isodon lophanthoides*
- T5015 *Pleiocarpa mutica* (Apocynaceae); DUO GUO SHU. Isolated compounds: 12268.
- T5016 *Pleiocarpa pycnantha* var. *tubicina* (Apocynaceae); CU SHENG HUA DUO GUO SHU. Isolated compounds: 12268.
- T5017 *Pleiocarpa tubicina* (Apocynaceae); LA BA ZHUANG DUO GUO SHU. Isolated compounds: 12120, 12268.
- T5018 *Pleuropterus ciliinervis* (Polygonaceae); MAO MAI LIAO. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, cool blood, quicken blood. TCM Indications: infection of upper respiratory tract, tonsillitis, acute bacillary dysentery, acute enteritis, infection of urinary system, various hemorrhage, knocks and falls, menstrual disorder, wind-damp impediment pain, heat toxin sores, burns. Isolated compounds: 13250, 13253, 17283, 17285, 17352, 17559, 18643.
- T5019 *Pleurospermum govianum* var. *bicolor* (Apiaceae); SHUANG SE SUO ZI QIN; Twocoloured Pleurospermum. Isolated compounds: 17763.
- T5020 *Pleurospermum lindleyanum* (Apiaceae); TIAN SHAN LING ZI QIN; Lindley Pleurospermum. Isolated compounds: 10216.
- T5021 *Pleurospermum rivulorum* (Apiaceae); YUN NAN QIANG HUO; Yunnan Pleurospermum. Used part: root. TCM Effects: To dispel wind and eliminate damp, free network vessels and relieve pain. TCM

- Indications:** Wind-cold common cold, wind-cold-damp impediment, hypertonicity of sinews and vessels, headache, pain in stomach duct and abdomen. **Isolated compounds:** 8326, 9420, 11001, 11445, 13571, 22774, 22775.
- T5022 *Pleurotus eryngii* (Pleurotaceae). **Isolated compounds:** 192, 5884, 5885, 6898, 6900, 6905, 7251, 21729.
- T5023 *Plocamium cartilagineum* (Plocamiaceae); RUAN GU HAI TOU HONG. **Isolated compounds:** 17650, 17651, 17652, 17653.
- T5024 *Plocamium corallorrhiza* (Plocamiaceae); SHAN HU GEN HAI TOU HONG. **Isolated compounds:** 2619, 2625, 17563, 17564, 17565, 21545.
- T5025 *Pluchea sericea* (Asteraceae); JUAN MAO KUO BAO JU; Sericeous Pluchea\*. **Isolated compounds:** 260, 10529.
- T5026 *Plumbagella micrantha* (Plumbaginaceae); JI WA CAO; Littleflower Plumbagella. **Used part:** herb. **TCM Effects:** To kill worms and relieve itch, decay wart and mole. **TCM Indications:** Neurodermatitis, psoriasis, tinea capitis, goose-foot wind, foot lichen, wart. **Isolated compounds:** 17568.
- T5027 *Plumbago europaea* (Plumbaginaceae); OU ZHOU LAN MO LI; European Leadwort\*. **Isolated compounds:** 17568.
- T5028 *Plumbago indica* (Plumbaginaceae); ZI XUE HUA; Indian Leadwort. **Used part:** Stem-leaf or flower. **TCM Effects:** To break blood and free menstruation, disperse swelling and relieve pain, dispel wind and kill worms. **TCM Indications:** Amenorrhea, dysmenorrhea, wind-damp impediment pain, sprain from knocks and falls, swelling toxin of welling abscess and sore, scab and lichen. **Isolated compounds:** 17568.
- T5029 *Plumbago zeylanica* (Plumbaginaceae); BAI HUA DAN; Whiteflower Leadwort. **Used part:** whole herb and root. **TCM Effects:** To dispel wind and eliminate damp, move *qi* and quicken blood, resolve toxin and disperse swelling. **TCM Indications:** Wind-damp impediment pain, liver spleen enlargement, amenorrhea due to blood stasis, sprain from knocks and falls, swollen welling abscess and scrofula, scab and lichen with itching, poisonous snake bite. **Isolated compounds:** 2402, 3541, 3569, 8712, 8713, 11790, 17567, 17568.
- T5030 *Plumeria bicolor* (Apocynaceae); SHUANG SE JI DAN HUA; Twocoloured Frangipani\*. **Isolated compounds:** 523, 10760.
- T5031 *Plumeria obtusa* (Apocynaceae); DUN XING JI DAN HUA; Obtuse Frangipani\*. **Isolated compounds:** 3468, 3469, 3470, 3471, 15911, 22964.
- T5032 *Plumeria rubra* (Apocynaceae); HONG JI DAN HUA; Frangipani. **Isolated compounds:** 17571.
- T5033 *Poa sphondylodes* (Lamiaceae); LONG XU CAO; Hard Bluegrass. **Used part:** aerial parts. **TCM Effects:** To clear heat and resolve toxin, disinhibit urine and free strangury. **TCM Indications:** Dribbling and inhibited voidings of urination, yellow-water sore. **Isolated compounds:** 1113, 1823, 7759, 7951, 8789.
- T5034 *Podanthus mitiqui* (Compositae); MI TI BING HUA JU. **Isolated compounds:** 16278.
- T5035 *Podanthus ovatifolius* (Compositae); BING HUA JU. **Isolated compounds:** 16278.
- T5036 *Podocarpus andina* (Podocarpaceae); ZHI LI LUO HAN SONG; Chile Podocarpus\*. **Isolated compounds:** 17586.
- T5037 *Podocarpus elongatu* (Podocarpaceae); HAO WANG JIAO LUO HAN SONG; Cape of Good Hope Podocarpus. **Isolated compounds:** 2379.
- T5038 *Podocarpus ferrugineu* (Podocarpaceae); XIN XI LAN LUO HAN SONG; New Zealand Podocarpus\*. **Isolated compounds:** 18971.
- T5039 *Podocarpus gracilior* (Podocarpaceae); XI LUO HAN SONG; Musengerra Podocarpus. **Isolated compounds:** 17591.
- T5040 *Podocarpus hallii* (Podocarpaceae); HA SHI LUO HAN SONG; Hall Podocarpus\*. **Isolated compounds:** 9196, 9197, 15231.
- T5041 *Podocarpus imbricatus* (Podocarpaceae); JI MAO SONG; Imbricate Podocarpus. **Isolated compounds:** 4289, 6679, 9543, 9818, 15668, 17588, 18864, 18866.
- T5042 *Podocarpus macrophyllus* (Podocarpaceae); LUO HAN SONG SHI; Longleaf Podocarpus Seed. Equivalent plant: *Podocarpus macrophyllus* var. *maki*. **Used part:** seed and floral receptacle. **TCM Effects:** To move *qi* and relieve pain, warm center and supplement blood. **TCM Indications:** Blood vacuity, withered-yellow facial complexion, pain in heart and stomach. **Isolated compounds:** 2850, 9543, 11113, 11114, 11115, 11116, 11117, 11118, 11119, 11128, 13411, 15231, 15233, 15234, 17700.
- T5043 *Podocarpus macrophyllus* (Podocarpaceae); LUO HAN SONG YE; Longleaf Podocarpus Leaf. Equivalent plant: *Podocarpus macrophyllus* var. *maki*. **Used part:** branch-leaf. **TCM Effects:** To stanch bleeding. **TCM Indications:** Blood ejection, hemoptysis. **Isolated compounds:** 3185, 6679, 9543, 12176, 12620, 13317, 13410, 13411, 13412, 15373, 17588, 17589, 17596, 17700, 21476.
- T5044 *Podocarpus macrophyllus* var. *maki* (Podocarpaceae); DUAN YE LUO HAN SONG SHI; Chinese Podocarpus Seed. **Used part:** seed and floral receptacle. **TCM Effects:** See *Podocarpus macrophyllus*. **TCM Indications:** See *Podocarpus macrophyllus*. **Isolated compounds:** 2850, 17700.
- T5045 *Podocarpus macrophyllus* var. *maki* (Podocarpaceae); DUAN YE LUO HAN SONG YE; Chinese Podocarpus Leaf. **Used part:** branch-leaf. **TCM Effects:** See *Podocarpus macrophyllus*. **TCM Indications:** See *Podocarpus macrophyllus*. **Isolated compounds:** 17700.
- T5046 *Podocarpus montanus* (Podocarpaceae); SHAN DI LUO HAN SONG; Mountain Podocarpus\*. **Isolated compounds:** 1030.  
*Podocarpus nagi* = *Myrica nagi*
- T5047 *Podocarpus nakaii* (Podocarpaceae); TAI WAN LUO HAN SONG; Nakai Podocarpus. **Isolated compounds:** 17699, 17700, 17701, 17702.
- T5048 *Podocarpus neriifolius* (Podocarpaceae); BAI RI QING; Thitmin. **Isolated compounds:** 17590.
- T5049 *Podocarpus nivalis* (Podocarpaceae); GAO SHAN LUO HAN SONG; Alpine Totara. **Isolated compounds:** 15231.
- T5050 *Podocarpus nubigenus* (Podocarpaceae); YUN WU LUO HAN SONG; Manio. **Isolated compounds:** 15231.
- T5051 *Podocarpus philippinensis* (Podocarpaceae); FEI LV BIN LUO HAN SONG; Philippine Podocarpus. **Isolated compounds:** 15229.
- T5052 *Podocarpus polystachyus* (Podocarpaceae); DUO SUI LUO HAN SONG SHI; Manyspike Podocarpus Seed. **Isolated compounds:** 15229.
- T5053 *Podocarpus purdieana* (Podocarpaceae); PU ER DI LUO HAN SONG; Purdie Podocarpus\*. **Isolated compounds:** 15231.
- T5054 *Podocarpus* sp. (Podocarpaceae). **Isolated compounds:** 15233, 17583, 18003.

- T5055 *Podocarpus spicatus* (Podocarpaceae); SUI HUA LUO HAN SONG; Matai. Isolated compounds: 13594.
- T5056 *Podolepis longipedata*. Isolated compounds: 16409.
- T5057 *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimense*; *Sinopodophyllum emodii*] (Berberidaceae); TAO ER QI; Common Sinopodophyllum. Used part: root and rhizome. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain, relieve cough and dispel phlegm. TCM Indications: Wind-damp impediment pain, knocks and falls, menstrual disorder, dysmenorrhea, pain in stomach duct and abdomen, cough. Isolated compounds: 1372, 4962, 5011, 5074, 5078, 5091, 5092, 5093, 5094, 11608, 14400, 17110, 17337, 17339, 17340, 17341, 17592, 17593, 17594, 17595, 19889.  
*Podophyllum emodii* var. *chinense* = *Podophyllum emodii*
- T5058 *Podophyllum peltatum* (Berberidaceae); DUN YE GUI JIU; Common Mayapple. Isolated compounds: 16793, 16794, 16795, 16796, 16797, 17337, 17347, 17592, 17593, 17594, 17595.  
*Podophyllum sikkimense* = *Podophyllum emodii*
- T5059 *Pogostemon cablin* [Syn. *Mentha cablin*] (Lamiaceae); GUANG HUO XIANG; Cablin Potchouli. Used part: aerial parts. TCM Effects: To transform damp aromatically, increase appetite and check vomiting, effuse exterior and resolve summerheat. TCM Indications: Summerheat-damp lassitude, oppression in chest, vomiting diarrhea with abdominal pain, deep-source nasal congestion and headache. Isolated compounds: 928, 1476, 1485, 1492, 2222, 2943, 3241, 3242, 3693, 4875, 6741, 6928, 7521, 7730, 9031, 9032, 9033, 9041, 9042, 9088, 9727, 9728, 9729, 14111, 14177, 16092, 16498, 16704, 16706, 16707, 16711, 16712, 16929, 17601, 17602, 18679, 19793, 22311.
- T5060 *Polanisia dodecandra* (Capparidaceae); SHI ER RUI CHOU SHI CAI; Dodecapistil Spiderflower\*. Isolated compounds: 17603.
- T5061 *Polianthes tuberosa* (Amaryllidaceae); WAN XIANG YU; Tuberose. Used part: root. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling toxin of welling abscess and sore. Isolated compounds: 696, 1570, 1571, 3553, 3584, 8661, 9254, 9255, 9256, 17611, 17612, 17613, 17614, 17615, 17616, 21383, 21385, 21387, 22286, 22826.
- T5062 *Pollia endiviifolia* (Commelinaceae). Isolated compounds: 16984.
- T5063 *Polyalthia acuminata* (Annonaceae). Isolated compounds: 15711.
- T5064 *Polyalthia cheliensis* (Annonaceae); JING HONG AN LUO; Jinghong Greenstar. Isolated compounds: 246.
- T5065 *Polyalthia longifolia* (Annonaceae); CHANG YE AN LUO; India Greenstar. Isolated compounds: 12714, 17619.
- T5066 *Polyalthia longifolia* var. *pendula* (Annonaceae); BIAN ZHONG CHANG YE AN LUO; Indian Greenstar Variety\*. Isolated compounds: 917, 11750, 12257, 16799, 16800, 16802, 20372.
- T5067 *Polyalthia nemoralis* (Annonaceae); LING SHUI AN LUO; Nemicolous Greenstar\*. Used part: root. TCM Effects: To fortify spleen and boost stomach, supplement kidney and secure essence. TCM Indications: Center vacuity with stomachache, inappetence, kidney vacuity and emission. Isolated compounds: 23002.
- T5068 *Polyalthia suberosa* (Annonaceae); AN LUO; Suberous Greenstar. Isolated compounds: 12116.
- T5069 *Polycarpon prostratum* (Caryophyllaceae); DUO JIA CAO; Manyseed. Isolated compounds: 17959, 17960, 17961, 17962.
- T5070 *Polygala amarella* (Polygalaceae); KU WEI YUAN ZHI; Bitter Milkwort\*. Isolated compounds: 20940, 20941, 20942, 20943, 20944, 20946, 20947, 20948, 20949, 20950, 20951, 20952, 20953, 20954, 20957, 20958.
- T5071 *Polygala arillata* (Polygalaceae); HUANG HUA YUAN ZHI; Yellowflower Milkwort. Used part: root. TCM Effects: To dispel phlegm and eliminate damp, fortify spleen and supplement vacuity, quiet heart and quicken blood. TCM Indications: Cough with profuse phlegm, wind-damp impediment pain, dribbling pain of urination, edema, beriberi, hepatitis, tuberculosis, postpartum vacuity weakness, inappetence, child *gan* accumulation, insomnia and frequent dreaming, menstrual disorder, knocks and falls. Isolated compounds: 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 6009, 6031, 10423, 17636, 18606, 20369, 20372.  
*Polygala aureocauda* = *Polygala fallax*
- T5072 *Polygala caudata* (Polygalaceae); SHUI HUANG YANG MU; Caudate Milkwort. Used part: root. TCM Effects: To clear heat and disinhibit damp, relieve cough and transform phlegm. TCM Indications: Swelling pain in throat, damp-heat jaundice, bronchitis. Isolated compounds: 4143, 17621.
- T5073 *Polygala chinensis* [Syn. *Polygala glomerata*] (Polygalaceae); DA JIN NIU CAO; Chinese Milkwort. Used part: whole herb with root. TCM Effects: To dispel phlegm, disperse accumulation, dissipate stasis, resolve toxin. TCM Indications: Cough and sore pharynx, child *gan* accumulation, knocks and falls, scrofula, swollen welling abscess, poisonous snake bite. Isolated compounds: 1622, 1623, 3530, 3531, 3532, 3540, 8582, 8583, 8584, 8585, 8586, 8587, 9323, 12082, 15184, 20445.
- T5074 *Polygala emodi* (Polygalaceae); XI MA LA YA YUAN ZHI; Himalayan Milkwort\*. Isolated compounds: 5074.
- T5075 *Polygala fallax* [Syn. *Polygala aureocauda*] (Polygalaceae); JIA HUANG HUA YUAN ZHI; Faste Yellowflower Milkwort\*. Used part: root or stem-leaf. TCM Effects: To supplement vacuity and fortify spleen, free network vessels and dissipate stasis. TCM Indications: Taxation fatigue and hypodynamia, prolapse of uterus, child *gan* accumulation, spleen vacuity edema, sparse vaginal discharge, wind-damp impediment pain, lumbago, menstrual disorder, dysmenorrhea, knocks and falls. Isolated compounds: 6009, 6031, 7711, 7712, 7713, 10044, 10422, 16109, 17637, 17638.
- T5076 *Polygala fruticosa* (Polygalaceae); GUAN MU YUAN ZHI; Shrubby Milkwort\*. Isolated compounds: 7973.  
*Polygala glomerata* = *Polygala chinensis*
- T5077 *Polygala macradenia* (Polygalaceae); DA XIAN YUAN ZHI; Macradenous Milkwort\*. Isolated compounds: 5074.
- T5078 *Polygala nitida* (Polygalaceae); GUANG LIANG YUAN ZHI; Shining Milkwort\*. Isolated compounds: 18609, 18610.
- T5079 *Polygala paenea* (Polygalaceae); PEI NI YUAN ZHI; Paene Milkwort\*. Isolated compounds: 5074.
- T5080 *Polygala peltatum* (Polygalaceae); ZU YE CAO; Peltate Milkwort\*. Isolated compounds: 5074.
- T5081 *Polygala polygama* (Polygalaceae); KU YUAN ZHI; Racemed Milkwort. Isolated compounds: 5093.

- T5082 *Polygala reinii* (Polygalaceae); SHI YE CAO; Reini Milkwort\*. Isolated compounds: 18603, 18604, 18605, 18606, 18607, 18608, 18611, 18612.
- T5083 *Polygala sabulosa* (Polygalaceae); SHA DI YUAN ZHI; Sandland Milkwort\*. Isolated compounds: 13919, 14014, 14015, 14018, 14019, 14021, 17840, 17976.
- T5084 *Polygala senega* (Polygalaceae); MEI YUAN ZHI; Senega Snakeroot. Isolated compounds: 16104, 19715, 19724, 19725, 19726, 19727, 19728, 19729, 20168.
- T5085 *Polygala senega* var. *latifolia* (Polygalaceae); KUAN YE MEI YUAN ZHI; Broadleaf Milkwort\*. Isolated compounds: 19716, 19717, 19718, 19719, 19720, 19721, 19722, 19723.
- T5086 *Polygala sibirica* (Polygalaceae); XI BO LI YA YUAN ZHI; Siberian Milkwort. Used part: root. TCM Effects: See *Polygala tenuifolia*. TCM Indications: See *Polygala tenuifolia*. Isolated compounds: 1682, 1683, 12468, 17631, 19855, 19856, 19857, 19863, 19864, 19865, 19866.
- T5087 *Polygala telephioides* (Polygalaceae); XIAO HUA YUAN ZHI; Smallflower Milkwort. Used part: whole herb with root. TCM Effects: To dispel phlegm, relieve cough, dissipate stasis, resolve toxin. TCM Indications: Cough, cough with inhibited phlegm, knocks and falls, menstrual disorder, swelling toxin of welling abscess and sore, poisonous snake bites. Isolated compounds: 20907, 20908, 20909.
- T5088 *Polygala tenuifolia* (Polygalaceae); YUAN ZHI; Thinleaf Milkwort. Equivalent plant: *Polygala sibirica*. Used part: root. TCM Effects: To quiet heart and spirit, dispel phlegm and open orifices, resolve toxin and disperse swelling. TCM Indications: Pharyngitis, disquieted heart spirit, fright palpitation and insomnia, amnesia, fright epilepsy, cough with profuse phlegm, effusion of back from welling abscess and flat abscess, painful swollen breast. Isolated compounds: 402, 3156, 3158, 5842, 6011, 6165, 6299, 8743, 9234, 10045, 10756, 10804, 14320, 15752, 16103, 16104, 16105, 16108, 16874, 16968, 17632, 17633, 17634, 17635, 17636, 20939, 20940, 20941, 20942, 20943, 20944, 20945, 20955, 20956, 20957, 20958, 20959, 20960, 20961, 20962, 21902.
- T5089 *Polygala vulgaris* (Polygalaceae); PU TONG YUAN ZHI; Common Milkwort\*. Isolated compounds: 3573, 6164, 6213, 19916.
- T5090 *Polygala wattersii* (Polygalaceae); CHANG MAO ZI YUAN ZHI; Longhair Milkwort. Used part: root or leaf. TCM Effects: To resolve toxin, dissipate stasis. TCM Indications: Mammary welling abscess, innominate toxin swelling, knocks and falls. Isolated compounds: 22639, 22640, 22641, 22642, 22643, 22644, 22645, 22646, 22647, 22648.
- T5091 *Polygonatum cyrtonema* [Syn. *Polygonatum multiflorum*] (Liliaceae); DUO HUA HUANG JING; Manyflower Solomonseal. Used part: rhizome. TCM Effects: See *Polygonatum sibiricum*. TCM Indications: See *Polygonatum sibiricum*. Isolated compounds: 2057, 5350, 5351, 9620.
- T5092 *Polygonatum kingianum* (Liliaceae); DIAN HUANG JING; King Solomonseal. Used part: rhizome. TCM Effects: See *Polygonatum sibiricum*. TCM Indications: See *Polygonatum sibiricum*. Isolated compounds: 7413, 11544, 12228.  
*Polygonatum multiflorum* = *Polygonatum cyrtonema*
- T5093 *Polygonatum odoratum* [Syn. *Polygonatum officinale*] (Liliaceae); YU ZHU; Fragrant Solomonseal. Equivalent plant: *Polygonatum prattii*. Used part: rhizome. TCM Effects: To nourish *yin* and moisten dryness, engender liquid and allay thirst. TCM Indications: Lung stomach *yin* damage, dry cough, dry throat, diabetes mellitus due to internal heat. Isolated compounds: 2057, 4005, 10134, 17624, 17625, 17626, 17627, 22650.  
*Polygonatum officinale* = *Polygonatum odoratum*
- T5094 *Polygonatum prattii* (Liliaceae); KANG DING YU ZHU; Pratt Solomonseal. Used part: rhizome. TCM Effects: See *Polygonatum odoratum*. TCM Indications: See *Polygonatum odoratum*. Isolated compounds: 17768.
- T5095 *Polygonatum sibiricum* (Liliaceae); HUANG JING; Siberian Solomonseal. Equivalent plant: *Polygonatum kingianum*, *Polygonatum cyrtonema*. Used part: rhizome. TCM Effects: To nourish *yin* and moisten lung, supplement spleen and boost *qi*, enrich kidney and replenish essence. TCM Indications: *Yin* vacuity taxation cough, lung heat dry cough, fatigue hypodynamia due to spleen vacuity, reduced food intake with dry mouth, diabetes mellitus, limp aching lumbus and knees due to kidney *yin* vacuity, impotence and emission, tinnitus and dim vision, premature graying in beard and hair, vacuity and marked emaciation, wind *lai* lichen. Isolated compounds: 5896, 13507, 15450, 17676, 17677, 17678, 17679, 17680, 17681.
- T5096 *Polygonatum zanlanscianense* (Liliaceae); HU BEI HUANG JING; Hubei Landpick. Isolated compounds: 6437, 8968, 10374, 11555, 11556, 16670, 17643, 17644, 17645, 17646, 17654.
- T5097 *Polygonum amphibium* (Polygonaceae); LIANG QI LIAO; Amphibious Knotweed. Used part: herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Edema in lower limb, dysentery, hematuria, tidal fever, vacuity and profuse sweating, clove sore, innominate toxin swelling. Isolated compounds: 2039.
- T5098 *Polygonum aviculare* (Polygonaceae); BIAN XU; Common Knotgrass. Used part: dried aerial parts. TCM Effects: To disinhibit urine and free strangury, kill worms, relieve itch. TCM Indications: Urethritis, lithiasis, chyluria, dysentery, parotitis, heat strangury, short voidings of reddish urine, dripping with inhibited pain, eczema, pudendal itch, vaginal discharge, ascariasis. Isolated compounds: 2039, 2040, 2887, 3551, 8095, 15181, 18317, 18411, 18680, 19542.
- T5099 *Polygonum bistorta* (Polygonaceae); QUAN SHEN; Bistort. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, disperse swelling, stanch bleeding. TCM Indications: Red dysentery, heat diarrhea, lung heat cough, swollen welling abscess, scrofula, mouth sore, tongue sores, blood ejection, spontaneous external bleeding, bleeding from hemorrhoids, poisonous snake bite. Isolated compounds: 5519, 6853, 8095, 8109.
- T5100 *Polygonum chinense* (Polygonaceae); HUO TAN MU CAO; Chinese Knotweed. Used part: herb. TCM Effects: To clear heat and disinhibit damp, cool blood and resolve toxin, calm liver and brighten eyes, soothe sinews and quicken blood. TCM Indications: Diarrhea, dysentery, swelling pain in throat, diphtheria, lung heat cough, pertussis, hepatitis, vaginal discharge, swollen welling abscess, otitis media, eczema, dizziness and tinnitus, corneal nephelium, knocks and falls. Isolated compounds: 12062, 19794.

- T5101 *Polygonum cuspidatum* (Polygonaceae); HU ZHANG; Japanese Fleeceflower. Used part: rhizome. TCM Effects: To lower cholesterol, quicken blood and dissipate stasis, dispel wind and free network vessels, clear heat and disinhibit damp, resolve toxin. TCM Indications: Hyperlipemia, impediment pain in joints, damp-heat jaundice, toxic jaundice, child jaundice, amenorrhea, hepatitis, appendicitis, candida vaginitis, concretion and conglomeration, cough with profuse phlegm, burns and scalds, knocks and falls, swelling toxin of welling abscess and sore. Isolated compounds: 1362, 1363, 1367, 1476, 3308, 3315, 3615, 3674, 3765, 5762, 5763, 5964, 6087, 6360, 6776, 6778, 7710, 8095, 8622, 9043, 10419, 10432, 11483, 13254, 13832, 17247, 17251, 17283, 18317, 18407, 18411, 18416, 18417, 18643, 18759, 21157, 21453, 22060.
- T5102 *Polygonum cuspidatum* (Polygonaceae); HU ZHANG YE; Japanese Fleeceflower Leaf. Used part: leaf. TCM Effects: To dispel wind-damp, resolve heat toxin. TCM Indications: Painful joints due to rheumatism, snake bite, lacquer sore. Isolated compounds: 2039, 3766, 10887, 11642, 13419, 18411, 19087, 20715.  
*Polygonum cymosum* = *Fagopyrum cymosum*  
*Polygonum flaccidum* = *Polygonum hydropiper* var. *flaccidum*
- T5103 *Polygonum hydropiper* (Polygonaceae); LIAO SHI; Red-knees Fruit. Used part: fruit. TCM Effects: To transform damp and disinhibit water, break stasis and dissipate binds, resolve toxin. TCM Indications: Vomiting diarrhea with abdominal pain, edema, inhibited urination [=dysuria], concretion and accumulation with glomus distention, swollen welling abscess and sores, scrofula. Isolated compounds: 11403, 17642.
- T5104 *Polygonum hydropiper* (Polygonaceae); SHUI LIAO; Red-knees. Used part: herb. TCM Effects: To move stagnation and transform damp, stanch bleeding and dissipate stasis, dispel wind and relieve itch, resolve toxin. TCM Indications: Damp-stagnation obstructing internally, diarrhea, dysentery, enteritis, child *gan* accumulation, flooding and spotting, amenorrhea due to blood stasis, dysmenorrhea, knocks and falls, wind-damp impediment pain, hematochezia, bleeding due to external injury, itchy skin, eczema, wind papules, foot lichen, swollen welling abscess, poisonous snake bite. Isolated compounds: 3971, 9737, 11403, 11609, 11610, 16884, 16990, 16991, 17640, 17641, 17647, 17648, 17649, 18281, 18399, 18411, 20659, 22310, 22638.
- T5105 *Polygonum hydropiper* var. *flaccidum* [Syn. *Polygonum flaccidum*] (Polygonaceae); LA LIAO; Flaccid Knotweed. Used part: whole herb. TCM Effects: To resolve toxin, eliminate damp, dissipate stasis, stanch bleeding. TCM Indications: Dysentery, diarrhea, nipple moth, malaria, wind-damp impediment pain, painful swelling from knocks and falls, flooding and spotting [=metrorrhagia and metrostaxis], swollen welling abscess and clove sores, scrofula, poisonous snake bites, eczema, foot lichen. Isolated compounds: 16991, 17647.
- T5106 *Polygonum lapathifolium* (Polygonaceae); YU LIAO; Dockleaved Knotweed. Used part: whole herb. TCM Effects: To resolve toxin, eliminate damp, quicken blood. TCM Indications: Swelling pain of sores, scrofula, diarrhea, dysentery, eczema, *gan* accumulation, wind-damp impediment pain, knocks and falls, menstrual disorder. Isolated compounds: 1187, 9737, 12049, 12504, 12505, 12506, 12507, 12508, 13653, 14017, 18360, 22309, 22330.
- T5107 *Polygonum multiflorum* (Polygonaceae); HE SHOU WU; Tuber Fleeceflower. Used part: tuberoid. TCM Effects: To lower cholesterol, enrich *yin* and nourish blood, moisten intestines and free stool, interrupt malaria, dispel wind, resolve toxin. TCM Indications: Backache, neurasthenia, hyperlipemia, neurosis, insomnia, dizziness due to anemia, palpitation, limp aching lumbus and knees due to liver kidney *yin* vacuity, premature graying in beard and hair, tinnitus, emission, intestinal dry and constipation, enduring malaria, wind papule itching, sore and welling abscess, scrofula, hemorrhoids. Isolated compounds: 3598, 3615, 5863, 6776, 7788, 9043, 13833, 17247, 17283, 17639, 17877, 18416, 18643, 18759, 19983, 21154, 21156, 21157, 21159.
- T5108 *Polygonum multiflorum* (Polygonaceae); YE JIAO TENG; Tuber Fleeceflower Stem. Used part: stem. TCM Effects: To nourish heart and quiet spirit, dispel wind and free network vessels. TCM Indications: Insomnia, frequent dreaming, anemia and generalized pain, muscle numbness, wind-damp impediment pain, wind papule itching. Isolated compounds: 17247, 18416.
- T5109 *Polygonum nodosum* (Polygonaceae); JIE LIAO; Pale Persicaria. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding, quicken blood and dissipate stasis. TCM Indications: Swelling of sores, *yin* flat abscess, scrofula, poisonous snake bite, toothache, summerheat stroke, dysentery, knocks and falls, bleeding due to external injury. Isolated compounds: 12049, 17399, 18360.
- T5110 *Polygonum orientale* (Polygonaceae); HONG CAO; Prince's-feather. Used part: herb. TCM Effects: To dispel wind and eliminate damp, clear heat and resolve toxin, quicken blood, interrupt malaria. TCM Indications: Infections, rheumatic arthritis, malaria, mounting *qi*, beriberi, swelling of sores. Isolated compounds: 9616, 16196, 17515.
- T5111 *Polygonum perfoliatum* (Polygonaceae); GANG BAN GUI GEN; Perfoliate Knotweed Root. Used part: root. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Mouth-level nape sore, hemorrhoids and fistulas. Isolated compounds: 6776, 11014.
- T5112 *Polygonum perigrinatoris* (Polygonaceae); NI A LUO. Used part: rhizome. TCM Effects: To astringe intestines and check dysentery. TCM Indications: Dysentery, diarrhea. Isolated compounds: 16925.
- T5113 *Polygonum persicaria* (Polygonaceae); TAO YE LIAO; Spring Knotweed. Used part: herb. TCM Effects: To effuse sweat and remove damp, disperse food, kill worms. TCM Indications: Wind-cold common cold, wind-cold-damp impediment, food damage diarrhea, intestinal parasitic disease. Isolated compounds: 11642, 16884, 18281.
- T5114 *Polygonum polystachyum* (Polygonaceae); DUO SUI LIAO; Many-spike Knotweed. Used part: herb. TCM Effects: To clear heat and resolve toxin, dispel wind and disinhibit damp. TCM Indications: Dysentery, diarrhea, child indigestion, wind-damp impediment pain, knocks and falls. Isolated compounds: 2039, 11642, 18317, 18342, 18411, 18674.
- T5115 *Polygonum sibiricum* [Syn. *Persicaria sibirica*] (Polygonaceae); XI BO LI YA LIAO [yn; Siberian Knotweed\*]. Used part: rhizome. TCM Effects: To course wind and clear heat, disinhibit water and disperse edema. TCM Indications: Red eyes with gall, damp itchy skin, edema, ascites (hydroperitoneum). Isolated compounds: 15450.

- T5116 *Polygonum* sp. (Polygonaceae). Isolated compounds: 19087.
- T5117 *Polygonum* spp. (Polygonaceae). Isolated compounds: 17399.
- T5118 *Polygonum suffultum* (Fabaceae); HONG SAN QI; Ovateleaf Knotweed. Used part: rhizome. TCM Effects: To stanch bleeding and relieve pain, quicken blood and regulate menstruation, clear heat and eliminate damp. TCM Indications: Painful wound from knocks and falls, bleeding due to external injury, blood ejection, hematochezia, flooding and spotting, red and white vaginal discharge, damp-heat dysentery, welling abscess. Isolated compounds: 19987.
- T5119 *Polygonum thunbergii* (Polygonaceae); SHUI MA TIAO; Thunberg Knotweed. Used part: herb. TCM Effects: To dispel wind and clear heat, quicken blood and relieve pain. TCM Indications: Headache due to externally contracted wind-heat, cough, sand, dysentery, painful wound from knocks and falls, tuberculosis and hemoptysis. Isolated compounds: 4446, 13240, 16990, 18411.
- T5120 *Polygonum tinctorium* (Polygonaceae); LIAO LAN GUO; Indigoplant Fruit. Used part: fruit. TCM Effects: To clear heat, cool blood, resolve toxin. TCM Indications: Warm disease ardent fever, blood ejection, spontaneous external bleeding, macular eruption, swelling pain in throat, swollen boil, innominate toxin swelling, bee sting, insect bites. Isolated compounds: 18287, 22059.
- T5121 *Polygonum tinctorium* (Polygonaceae); LIAO LAN YE; Indigoplant Leaf. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, cool blood and disperse macula. TCM Indications: Warm disease fever, macular eruption and papules, blood ejection, spontaneous external bleeding, throat impediment, heat dysentery, jaundice, erysipelas, epidemic parotitis, mouth sore, swollen welling abscess. Isolated compounds: 11014, 11023, 11024, 18287, 21799.
- T5122 *Polygonum viscosum* (Polygonaceae); ZHAN MAO LIAO; Viscidhairy Knotweed. Used part: branch-leaf. TCM Effects: To rectify *qi* and remove damp, fortify stomach and disperse food. TCM Indications: Stomach *qi* pain, indigestion, child *gan* accumulation, wind-damp pain. Isolated compounds: 6147, 18353, 22535.
- T5123 *Polypodium glycyrrhiza* (Polypodiaceae); TIAN GEN DUO ZU JUE; Sweetroot Polypody\*. Isolated compounds: 17663.
- T5124 *Polypodium niponicum* (Polypodiaceae); SHUI LONG GU; Japanese Polypody. Used part: rhizome. TCM Effects: To clear heat and disinhibit damp, quicken blood and free network vessels. TCM Indications: Opacity of urine, diarrhea, strangury, wind-damp impediment pain, knocks and falls. Isolated compounds: 3773, 4468, 4503, 4885, 6678, 6679, 7758, 7978, 9638, 9639, 9641, 9642, 10066, 14355, 14434, 15064, 15065, 15066, 15067, 15729, 15730, 15731, 15732, 16029, 16030, 16037, 16038, 16251, 16426, 17584, 17585, 17618, 19767, 20698, 20709.  
*Polypodium punctatum* = *Hypolepis punctata*
- T5125 *Polypodium* spp. (Polypodiaceae). Isolated compounds: 15064.
- T5126 *Polypodium virginianum* (Polypodiaceae); DONG BEI DUO ZU JUE; North-east Polypody\*. Used part: rhizome. TCM Effects: See *Polypodium vulgare*. TCM Indications: See *Polypodium vulgare*. Isolated compounds: 15729, 15730, 19767.
- T5127 *Polypodium vulgare* (Polypodiaceae); DUO ZU JUE; Common Polypody. Equivalent plant: *Polypodium virginianum*. Used part: rhizome. TCM Effects: To clear heat, resolve toxin and disinhibit damp. TCM Indications: Damp-heat strangury pain, wind-damp-heat impediment, swollen welling abscess, sore and boil, wind papule itching, knocks and falls. Isolated compounds: 3551, 6678, 9638, 9642, 10062, 12999, 13419, 14235, 15729, 15730, 16116, 17660, 17662, 17663.  
*Polyporus cinnabarinus* = *Trametes cinnabarina*
- T5128 *Polyporus ellisii* (Polyporaceae); AI LI SI DUO KONG JUN; Ellisii Porous Agaric\*. Isolated compounds: 3421, 6904, 20154.  
*Polyporus fomentarius* = *Fomes fomentarius*  
*Polyporus pinicola* = *Fomitopsis pinicola*
- T5129 *Polyporus umbellatus* (Polyporaceae); ZHU LING; Popyporus Agaric. Used part: sclerotium. TCM Effects: To disinhibit water and percolate damp, anticancer. TCM Indications: Inhibited urination, edema, ascites, carcinoma of lung, carcinoma of esophagus, diarrhea, strangury-turbidity, vaginal discharge. Isolated compounds: 7247, 7250, 17665, 17666, 17667, 17668, 17669, 17670, 17671.
- T5130 *Polyscias amplifolia* (Araliaceae); DA YE NAN YANG SHEN; Bigleaf Polyscias\*. Isolated compounds: 8054, 8065, 17622, 17623.
- T5131 *Polyscias murrayi* (Araliaceae); MO LEI NAN YANG SHEN; Murri Polyscias\*. Isolated compounds: 6091, 10638, 17169.
- T5132 *Polystichum fauriei* (Aspidiaceae); FU RUI ER JUE; Faurie Shield Fern\*. Isolated compounds: 17660.
- T5133 *Polytrichum commune* (Polytrichaceae); JIN FA XIAN; Common Gold-hair Moss\*. Used part: frond. TCM Effects: To enrich *yin* and clear heat, cool blood and stanch bleeding. TCM Indications: Steaming bone tidal fever due to *yin* vacuity, night sweating, tuberculosis with cough, blood ejection due to blood heat, spontaneous external bleeding, hemoptysis, hematochezia, flooding and spotting. Isolated compounds: 14806.
- T5134 *Polytrichum ohioense* (Polytrichaceae); DUO XING JIN FA XIAN; Polymorphism Gold-hair Moss\*. Isolated compounds: 16019, 16020, 16021, 16022, 16023.
- T5135 *Polytrichum pollidisetum* (Polytrichaceae); CANG MAO JIN FA XUAN; Dark-hair Gold-hair Moss\*. Isolated compounds: 16548, 16549.
- T5136 *Pometia ridleyi* (Sapindaceae); LI DE LI FAN LONG YAN; Ridley Pometia\*. Isolated compounds: 17689, 17690, 17691, 17692, 17693, 17694.
- T5137 *Poncirus trifoliata* (Rutaceae); GOU JU; Trifoliolate-orange. Used part: unripe fruit. TCM Effects: To break *qi* and dissipate binds, course liver and resolve depression. TCM Indications: Binding depression of liver *qi*, mammary consumption, mounting *qi*, *qi* stagnation, distention fullness in stomach duct and abdomen, pain in stomach duct, constipation, prolapse of uterus, prolapse of rectum. Isolated compounds: 933, 1497, 3241, 3242, 9458, 11611, 15286, 15882, 17705, 19784, 20002, 22775.
- T5138 *Poncirus trifoliata* (Rutaceae); GOU JU HE; Trifoliolate-orange Seed. Used part: seed. TCM Effects: To stanch bleeding. TCM Indications: Incessant intestinal wind bleeding. Isolated compounds: 2010, 9419, 13846.
- T5139 *Poncirus trifoliata* (Rutaceae); GOU JU YE; Trifoliolate-orange Leaf. Used part: leaf. TCM Effects: To rectify *qi* and dispel wind, dissipate binds and disperse swelling. TCM Indications: Dysphagia-occlusion,

- stomach reflux, vomiting, globus hystericus, mounting *qi*. Isolated compounds: 1497, 17705.
- T5140 *Poncirus trifoliata* (Rutaceae); GOU JU ZHI KE; Trifoliolate-orange Unripe Fruit. Used part: unripe fruit. TCM Effects: See *Citrus aurantium*. TCM Indications: See *Citrus aurantium*. Isolated compounds: 15286.
- T5141 *Poncirus trifoliata* (Rutaceae); GOU JU ZHI SHI; Trifoliolate-orange Young Fruit. Used part: young fruit. TCM Effects: See *Citrus aurantium*. TCM Indications: See *Citrus aurantium*. Isolated compounds: 9420, 14796, 15286, 15404, 17704.
- T5142 *Poncirus trifoliata* (Rutaceae); ZHI GEN PI; Trifoliolate-orange Root-bark. Used part: root cortex. TCM Effects: To constrain blood, relieve pain. TCM Indications: Toothache, hemorrhoids, hematochezia. Isolated compounds: 5134, 19784.
- T5143 *Pongamia pinnata* (Fabaceae); SHUI LIU DOU; Poongaoil Pongamia. Used part: seed. TCM Effects: To dispel wind and eliminate damp, resolve toxin and kill worms. TCM Indications: Scab and *lai*, lichen, suppurative sore. Isolated compounds: 1408, 1409, 1410, 1413, 2334, 2857, 3071, 3072, 3335, 5962, 6228, 6245, 6246, 6247, 8124, 10029, 10407, 12163, 13097, 13098, 13908, 14074, 14075, 15950, 17398, 17708, 17709, 17710, 17711, 17712, 17714, 17715, 17716, 17753, 20280, 20372, 21916.
- T5144 *Populus adenopoda* (Salicaceae); XIANG YE YANG; Chinese Aspen. Used part: root cortex, bark or leaf. TCM Effects: To dispel wind and relieve pain, quicken blood and free network vessels. TCM Indications: Wind-damp impediment pain, paralysis in limbs, decayed toothache, static blood pain due to injury. Isolated compounds: 19184, 19192.
- T5145 *Populus alba* (Salicaceae); YIN BAI YANG; White Aspen. Used part: leaf. TCM Effects: To relieve cough and calm asthma, clear heat and resolve phlegm. TCM Indications: Cough and asthma. Isolated compounds: 3600, 19184, 19192.
- T5146 *Populus alba* var. *pyramidalis* (Salicaceae); XIN JIANG YANG; Sinkiang Poplar\*. Isolated compounds: 3600, 19184, 19192.
- T5147 *Populus balsamifera* (Salicaceae); ZHI YANG; Balsam Poplar. Isolated compounds: 115, 2414.
- T5148 *Populus beijingensis* (Salicaceae); BEI JING YANG; Beijing Poplar. Isolated compounds: 3600, 19184, 19192.
- T5149 *Populus canadensis* (Salicaceae); JIA YANG; Canada Poplar. Equivalent plant: *Populus cathayana*. Used part: male inflorescence. TCM Effects: To clear heat and resolve toxin, transform damp and check dysentery. TCM Indications: Bacteriogenic dysentery, enteritis. Isolated compounds: 3600, 19184.
- T5150 *Populus cathayana* (Salicaceae); QING YANG; Green Poplar. Used part: male inflorescence. TCM Effects: See *Populus canadensis*. TCM Indications: See *Populus canadensis*. Isolated compounds: 19184, 19192.
- T5151 *Populus davidiana* (Salicaceae); SHAN YANG; Wild poplar. Used part: bark. TCM Effects: To dispel wind and quicken blood, clear heat and disinhibit damp, expel worms. TCM Indications: Wind impediment, beriberi, static blood from knocks and falls, dysentery, lung heat cough, mouth sore, toothache, dribbling urination, ascariasis. Isolated compounds: 165, 3600, 19184, 19192, 20899.
- T5152 *Populus heterophylla* (Salicaceae); YI YE YANG; Swamp Cottonwood. Isolated compounds: 21508.
- T5153 *Populus hopeiensis* (Salicaceae); HE BEI YANG; Hebei Poplar. Isolated compounds: 19184, 19192.
- T5154 *Populus koreana* (Salicaceae); XIANG YANG; Korea Poplar. Isolated compounds: 19184, 19192.
- T5155 *Populus lasiocarpa* (Salicaceae); DA YE YANG; Bigleaf Poplar. Isolated compounds: 19184.
- T5156 *Populus nigra* var. *thevestina* (Salicaceae); JIAN GAN YANG; Arrowshaft Poplar. Used part: bark or leaf. TCM Effects: To dispel wind and eliminate damp, cool blood and resolve toxin. TCM Indications: Wind-damp impediment pain, leg *qi* with edema, hepatitis, dysentery, burns and scalds, scab and lichen with bald sores. Isolated compounds: 19184.
- T5157 *Populus pseudo-simonii* (Salicaceae); XIAO QING YANG; False Simon Poplar. Used part: bark. TCM Effects: To resolve toxin. TCM Indications: Stubborn lichen with sore toxin. Isolated compounds: 3600, 19184, 19192.
- T5158 *Populus simonii* (Salicaceae); XIAO YE YANG; Simon Poplar. Used part: bark. TCM Effects: To dispel wind and quicken blood, clear heat and disinhibit damp. TCM Indications: Wind-damp impediment pattern, painful swelling from knocks and falls, lung heat cough, dribbling urination, mouth sore, toothache, dysentery, leg *qi*, ascariasis. Isolated compounds: 19184.
- T5159 *Populus* sp. (Salicaceae). Isolated compounds: 3600, 3695, 17828, 19184, 20556.
- T5160 *Populus* spp. (Salicaceae). Isolated compounds: 2890, 17720.
- T5161 *Populus tomentosa* (Salicaceae); MAO BAI YANG; Chinese White Poplar. Used part: bark or twig. TCM Effects: To clear heat and disinhibit damp, relieve cough and transform phlegm. TCM Indications: Hepatitis, dysentery, strangury-turbidity, cough of phlegm asthma. Isolated compounds: 1485, 3600, 17720, 19184, 19192, 21510.
- T5162 *Populus tremula* (Salicaceae); OU ZHOU SHAN YANG; Aspen. Isolated compounds: 21508.
- T5163 *Populus tremuloides* (Salicaceae); CHAN YANG; American Aspen. Isolated compounds: 2284, 17089, 21508, 21510.
- T5164 *Populus trichocarpa* (Salicaceae); MAO GUO YANG; Black Cottonwood. Isolated compounds: 21557.
- T5165 *Populus ussuriensis* (Salicaceae); DA QING YANG; Ussuri Poplar. Isolated compounds: 19184, 19192.
- T5166 *Populus xiaohei* (Salicaceae); XIAO HEI YANG; Slamm Black Poplar. Isolated compounds: 3600, 19184, 19192.
- T5167 *Porana racemosa* (Convolvulaceae); FEI E TENG; Racemose Porana. Used part: whole herb or root. TCM Effects: To resolve exterior, move *qi*, quicken blood, resolve toxin. TCM Indications: Common cold due to wind-cold, food stagnation abdominal distention, innominate toxin swelling. Isolated compounds: 11132.
- T5168 *Porella acutifolia* ssp. *tosana* (Porellaceae); SHANG ZUO JIAN YE GUANG E TAI. Isolated compounds: 600, 601, 2352, 2429, 2430, 2431, 2432, 2433, 2434, 6741, 7089, 10650, 10651, 16407, 16979, 22311.
- T5169 *Poria cocos* (Polyporaceae); FU LING; Indian Bread. Used part: sclerotium. TCM Effects: To disinhibit water and percolate damp,



- fortify spleen and quiet heart. TCM Indications: Neurasthenia, disquieted heart spirit, fright palpitation and insomnia, insomnia, pelvic inflammation, edema, scant urine with edema, phlegm-rheum dizziness, reduced food intake due to spleen vacuity, sloppy stool and diarrhea, chronic diarrhea. Isolated compounds: 478, 617, 1112, 3140, 3589, 4874, 4909, 4978, 6544, 6674, 6889, 7250, 9486, 9758, 9823, 10070, 10311, 12569, 16496, 16497, 17387, 17664, 17722, 17723, 17724, 17725, 17726, 17727, 17728, 21502, 22108, 22109, 22218.
- T5170 *Porphyra* sp. (Bangiaceae). Isolated compounds: 16345.
- T5171 *Porphyra tenera* (Bangiaceae); ZI CAI; Laver. Used part: thalospore. TCM Effects: To transform phlegm and soften hardness, clear heat and disinhibit urine. TCM Indications: Goiter and tuberculosis, beriberi, edema, strangury, swelling pain in throat, cough, diarrhea. Isolated compounds: 3237, 6721, 8011, 12900, 12901, 13126, 15528, 16884, 20998.
- T5172 *Portulaca grandiflora* (Portulacaceae); DA HUA MA CHI XIAN; Largeflower Purslane. Used part: herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding and dissipate stasis. TCM Indications: Swelling pain in throat, sore and boil, eczema, painful swelling from knocks and falls, burns and scalds, bleeding due to external injury. Isolated compounds: 2319, 2320, 2322, 9662, 11018, 11250, 11252, 17733, 17734, 17735, 17736, 17737, 17738, 17739, 17740.
- T5173 *Portulaca oleracea* (Portulacaceae); MA CHI XIAN; Purslane. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Heat toxin blood dysentery, acute bacillary dysentery, pertussis, enteritis, appendicitis, swollen welling abscess and clove sores, eczema, erysipelas, bleeding, postpartum bleeding, hematochezia, bleeding from hemorrhoids, flooding and spotting, ascariasis, ancylostomiasis, snake or insect bites. Isolated compounds: 6558, 6559, 11250, 11252, 15708, 16074, 16075, 16076, 16077, 16078.
- T5174 *Portulaca pilosa* (Portulacaceae); MAO MA CHI XIAN; Pilose Purslane\*. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin. TCM Indications: Damp-heat dysentery, sore and boil. Isolated compounds: 11250, 11252, 17364, 17365, 22624.
- T5175 *Potamogeton lucens* (Potamogetonaceae); GUANG YE YAN ZI CAI; Glabrousleaf Pondweed. Isolated compounds: 8680, 8700, 10546.
- T5176 *Potamogeton natans* (Potamogetonaceae); FU YE YAN ZI CAI; Floatingleaf Pondweed. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel damp and disinhibit water. TCM Indications: Red eyes with gall, swelling toxin of sore and welling abscess, jaundice, edema, bleeding from hemorrhoids, ascariasis. Isolated compounds: 187, 5875, 5876, 7183, 7184, 10087, 11699, 17742, 18815.
- T5177 *Potamogeton pectinatus* (Potamogetonaceae); BI CHI YAN ZI CAI; Fennelleaf Pondweed. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Lung heat cough, sore and boil. Isolated compounds: 7049, 7161, 8641, 10298, 12409, 14405, 14408.
- T5178 *Potamogeton perfoliatus* (Potamogetonaceae); SUAN SHUI CAO; Thorowort Pondweed. Used part: whole herb. TCM Effects: To dispel wind and disinhibit damp. TCM Indications: Eczema, itchy skin. Isolated compounds: 13126, 15477, 22520.
- T5179 *Potentilla anserina* (Rosaceae); E RONG WEI LING CAI; Silverweed Cinquefoil. Used part: tuberoid. TCM Effects: To supplement *qi* and blood, fortify spleen and stomach, engender liquid and allay thirst. TCM Indications: Blood vacuity during convalescence, *gan* accumulation, edema, spleen vacuity diarrhea, wind-damp impediment pain. Isolated compounds: 6853.
- T5180 *Potentilla atrosanguinea* (Rosaceae); AN HONG WEI LING CAI; Darksanguine Cinquefoil\*. Isolated compounds: 4446.
- T5181 *Potentilla chinensis* (Rosaceae); WEI LING CAI; Chinese Cinquefoil. Used part: whole herb with root. TCM Effects: To cool blood and check dysentery, clear heat and resolve toxin. TCM Indications: Red dysentery and abdominal pain, enduring dysentery, bleeding hemorrhoids, swelling toxin of sore and welling abscess. Isolated compounds: 8095, 12020, 18317, 22270.
- T5182 *Potentilla discolor* (Rosaceae); FAN BAI CAO; Discolor Cinquefoil. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding. TCM Indications: Cough and asthma due to lung heat, diarrhea dysentery, malaria, hacking of blood, blood ejection, bloody stool, flooding and spotting [=metrorrhagia and metrostaxis], swelling toxin of welling abscess and sore, scrofula. Isolated compounds: 13374.
- T5183 *Potentilla griffithii* var. *velutina* (Rosaceae); CHANG ROU MAO WEI LING CAI; Velutinous Cinquefoil. Used part: root. TCM Effects: To rectify *qi* and disperse food, promote contraction and stanch bleeding, clear heat and quicken blood. TCM Indications: Food accumulation stomachache, gastric ulcer, duodenal ulcer, child *gan* accumulation, dysentery, incessant postpartum bleeding, infant fright wind, facial paralysis. Isolated compounds: 21392.
- T5184 *Potentilla kleiniana* (Rosaceae); SHE HAN WEI LING CAI; Klein Cinquefoil. Used part: whole herb with root. TCM Effects: To clear heat and settle fright, interrupt malaria, relieve cough and transform phlegm, quicken blood and resolve toxin. TCM Indications: Ardent fever with fright wind, malaria, lung heat cough, pertussis, dysentery, toxin swelling of sores, swelling pain in throat, wind-fire toothache, zoster, red eyes with gall, snake or insect bites, rheumatism numbness, knocks and falls, menstrual disorder, bleeding due to external injury. Isolated compounds: 759, 17750.
- T5185 *Potentilla multifida* (Rosaceae); DUO LIE WEI LING CAI; Many-cleft Cinquefoil. Used part: whole herb with root. TCM Effects: To stanch bleeding, disinhibit damp heat, kill worms. TCM Indications: Bleeding due to external injury, flooding and spotting [=metrorrhagia and metrostaxis], hepatitis, oxyuria disease. Isolated compounds: 10943, 22617.
- T5186 *Potentilla reptans* var. *sericophylla* (Rosaceae); JIN JIN BANG; Sericeous Cinquefoil. Used part: root. TCM Effects: To engender liquid and allay thirst, enrich *yin* and remove heat. TCM Indications: Vacuity taxation with fever, vacuity asthma, febrile diseases fluid damage, thirst with dry throat, turbid vaginal discharge. Isolated compounds: 18347.
- T5187 *Potentilla* spp. (Rosaceae). Isolated compounds: 16765.
- T5188 *Potentilla viscosa* (Rosaceae); NIAN WEI LING CAI; Viscose

- Cinquefoil\*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, promote contraction and stem desertion. TCM Indications: Enteritis, dysentery, pneumonia, prolapse of uterus. Isolated compounds: 17884.
- T5189 *Pothos chinensis* (Araceae); SHI GAN ZI; Chinese Pothos. Used part: whole herb. TCM Effects: To move *qi* and relieve pain, disperse accumulation, dispel wind-damp, dissipate stasis and resolve toxin. TCM Indications: *Qi* pain in heart and stomach, mounting *qi*, child *gan* accumulation, food accumulation distention and fullness, swollen liver and spleen due to bilharziosis, wind-damp impediment pain, beriberi, knocks and falls, fracture, otitis media, nasosinusitis. Isolated compounds: 20444.
- T5190 *Prana discifera* DA PENG TENG; Disciform Prana\*. Isolated compounds: 3279.
- T5191 *Prangos pabularia* (Apiaceae); SHUAN CHI QIN; Common Prangos. Isolated compounds: 933, 9419, 13453, 16261, 16457, 16485, 16486, 16487, 17028.
- T5192 *Prangos tschimganica* (Apiaceae). Isolated compounds: 22064, 22065, 22066.
- T5193 *Pratia nummularia* (Campanulaceae); TONG CHUI YU DAI CAO; Common Pratia. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood, resolve toxin. TCM Indications: Wind-damp pain, knocks and falls, menstrual disorder [=menoxenia], red eyes with gall, mammary welling abscess, innominate toxin swelling. Isolated compounds: 12941, 12942, 12943, 17766, 17767.  
*Premna herbacea* = *Pygmaepremna herbacea*
- T5194 *Premna microphylla* (Verbenaceae); DOU FU CHAI; Japanese Premna. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Malaria, diarrhea, dysentery, drunkenness, swollen welling abscess, clove sore, erysipelas, snake or insect bites, bleeding due to external injury. Isolated compounds: 21578.
- T5195 *Premna subscandens* (Verbenaceae); PAN YUAN CHOU HUANG JING; Climbing Premna. Isolated compounds: 17814, 17815, 17816, 17817, 17818, 17819, 17820, 17821.
- T5196 *Prenanthes acerifolia* (Asteraceae); QI YE PAN GUO JU; Rattlesnakeroot. Isolated compounds: 17822.
- T5197 *Primula auricula* (Primulaceae); ER ZHUANG BAO CHUN HUA; Auricula. Isolated compounds: 16532.
- T5198 *Primula elatior* (Primulaceae); GAO BAO CHUN; Oxlip. Isolated compounds: 17857, 17859, 22607.
- T5199 *Primula malacoides* (Primulaceae); BAO CHUN HUA; Fairy Primrose. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Lung heat cough, red swollen in throat, oral ulcer, gum swelling and pain, liver fire and red eyes, swollen welling abscess, sore and boil. Isolated compounds: 7334.
- T5200 *Primula mistassinica* (Primulaceae); JIA NA DA BAO CHUN; Mistassini Primrose. Isolated compounds: 17853.
- T5201 *Primula modesta* (Primulaceae); CHANG BAI SHAN BAO CHUN; Changpai Mountains Primrose. Isolated compounds: 17853.
- T5202 *Primula obconica* (Primulaceae); E BAO CHUN; Top Primrose. Used part: root. TCM Effects: To resolve liquor toxin, settle pain. Isolated compounds: 17857.  
*Primula officinalis* = *Primula veris*
- T5203 *Primula pulverulenta* (Primulaceae); YIN FEN BAO CHUN; Pulverulent Primrose. Isolated compounds: 7819.
- T5204 *Primula veris* [Syn. *Primula officinalis*] (Primulaceae); HUANG HUA JIU LUN CAO; Official Primrose\*. Isolated compounds: 6225, 6226, 10023, 14016.
- T5205 *Primula viscosa* (Primulaceae); NIAN BAO CHUN; Viscid Primrose\*. Isolated compounds: 16532.
- T5206 *Prinostemma aspera* . Isolated compounds: 17862.
- T5207 *Prismatomeris tetrandra* (Rubiaceae); NAN SHAN HUA; Furstamen Prismatomeris. Used part: root. TCM Effects: To cool blood and stanch bleeding, disinherit damp and abate jaundice, dissipate stasis and strengthen sinews. TCM Indications: Gum hemorrhage, anemia, hepatitis, rheumatic arthritis, knocks and falls, urinary tract infection. Isolated compounds: 5836, 10032, 10800.
- T5208 *Pristimera indica* (Hippocrateaceae); BIAN SHUO TENG; Indian Pristimera. Isolated compounds: 17862.
- T5209 *Pronephrium simplex* [Syn. *Meniscium simplex*] (Thelypteridaceae); DAN YE XIN YUE JUE; Simple Pronephrium. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Swelling pain in throat, dysentery, poisonous snake bites. Isolated compounds: 17880.
- T5210 *Prosopis juliflora* (Fabaceae); MU DOU SHU; Algarroba. Isolated compounds: 11943, 16364, 19621.
- T5211 *Prosopis* spp. (Fabaceae). Isolated compounds: 22581.
- T5212 *Protea mellifera* (Proteaceae); MI PU LUO TI YA MU; Sugar Bush. Isolated compounds: 9740.
- T5213 *Protorhus thouvenotii* (Anacardiaceae). Isolated compounds: 9388, 21337, 21338.
- T5214 *Prunella vulgaris* (Lamiaceae); XIA KU CAO; Common Selfheal. Used part: spike. TCM Effects: To clear fire, brighten eyes, dissipate binds, disperse swelling. TCM Indications: Red eyes with gall, eyeball night pain, headache and dizziness, scrofula, goiter and tuberculosis, mammary welling abscess, thyroid enlargement, scrofula, hyperplasia of mammary glands, hypertension. Isolated compounds: 1733, 3674, 4680, 7751, 9616, 10334, 10350, 10887, 13137, 14158, 14306, 14307, 14398, 14512, 14634, 14783, 14784, 14785, 14786, 14787, 14788, 14803, 15539, 15540, 16036, 16050, 16905, 18006, 18007, 19758, 20349, 20366, 21764, 22264, 22270, 22621, 22622.
- T5215 *Prunus amygdalus* (Rosaceae); BA DAN XING REN; Amygdalate Apricot Seed. Used part: seed. TCM Effects: To moisten lung and suppress cough, transform phlegm and precipitate *qi*. TCM Indications: Vacuity taxation cough, fullness and oppression in heart and abdomen. Isolated compounds: 1102, 1764, 2222, 5699, 7278, 9717.
- T5216 *Prunus armeniaca* (Rosaceae); XING REN; Apricot Seed. Equivalent plant: *Prunus armeniaca* var. *ansu*. Used part: bitter seed. TCM Effects: To downbear *qi* and transform phlegm, relieve cough and calm asthma, moisten intestines and free stool. TCM Indications: Cough, asthma and fullness due to external contraction cough, intestinal dry and constipation. Isolated compounds: 1102, 1102, 1598, 3760, 4550, 4817, 4835, 6540, 6820, 6821, 6822, 7821, 9486, 11123, 12849, 12891, 12893, 13478, 15203, 15692, 16561, 18000, 19039, 20280, 20995, 20998.
- T5217 *Prunus armeniaca* (Rosaceae); XING SHU GEN; Apricot Root. Used

- part: root. TCM Effects: To resolve toxin. TCM Indications: Poisoning from almonds. Isolated compounds: 2063.
- T5218 *Prunus armeniaca* (Rosaceae); XING ZI; Apricot. Used part: fruit. TCM Effects: To moisten lung and settle asthma, engender liquid and allay thirst. TCM Indications: Lung heat dry cough, fluid damage and thirst. Isolated compounds: 3761, 7072, 9523, 14186, 15971, 17090, 22615.
- T5219 *Prunus armeniaca* var. *ansu* (Rosaceae); SHAN XING REN; Ansu Apricot Seed. Used part: bitter seed. TCM Effects: See *Prunus armeniaca*. TCM Indications: See *Prunus armeniaca*. Isolated compounds: 1102, 1102, 9512, 9519, 12849, 20995, 20998.
- T5220 *Prunus davidiana* (Rosaceae); SHAN TAO JING BAI PI; David Peach Bast. Used part: bast. TCM Effects: See *Prunus persica*. TCM Indications: See *Prunus persica*. Isolated compounds: 1764, 14768, 15279, 16992, 16993.
- T5221 *Prunus davidiana* (Rosaceae); SHAN TAO ZHI; David Peach Juvenile Branch. Used part: branchlet. TCM Effects: See *Prunus persica*. TCM Indications: See *Prunus persica*. Isolated compounds: 15279.
- T5222 *Prunus domestica* (Rosaceae); YANG LI; Garden Plum. Isolated compounds: 7821, 15477.
- T5223 *Prunus humilis* [Syn. *Cerasus humilis*] (Rosaceae); OU LI REN; Chinese Dwarf Cherry Seed. Used part: ripe seed. TCM Effects: See *Prunus japonica*. TCM Indications: See *Prunus japonica*. Isolated compounds: 15069, 15072.
- T5224 *Prunus japonica* [Syn. *Cerasus japonica*] (Rosaceae); YU LI REN; Dwarf Flowering Cherry Seed. Equivalent plant: *Prunus humilis*, *Prunus japonica* var. *nakaii*. Used part: ripe seed. TCM Effects: To moisten dryness and lubricate intestines, precipitate *qi*, disinhibit water. TCM Indications: Desiccation of liquid and intestine dryness, food accumulation and *qi* stagnation, abdominal distention and constipation, edema, beriberi, inhibited urination. Isolated compounds: 1102, 9717, 12018, 15068, 15069, 15072.
- T5225 *Prunus japonica* var. *nakaii* (Rosaceae); CHANG GENG YU LI REN; Longpedicel Chinese Buscherry Seed. Used part: ripe seed. TCM Effects: See *Prunus japonica*. TCM Indications: See *Prunus japonica*. Isolated compounds: 15069, 15072.
- T5226 *Prunus mume* (Rosaceae); BAI MEI HUA; Japanese Apricot Flower. Used part: bud. TCM Effects: To soothe liver, harmonize stomach and transform phlegm. TCM Indications: Globus hystericus, liver stomach *qi* pain, inappetence, dizziness, scrofula. Isolated compounds: 466, 497, 2222, 2276, 2278, 3489, 3551, 7525, 11666, 17265, 18004, 18005, 18351, 18378, 18390, 19087.
- T5227 *Prunus mume* (Rosaceae); MEI HE REN; Japanese Apricot Kernel. Used part: kernel. TCM Effects: To clear summerheat, brighten eyes, eliminate vexation. TCM Indications: Summerheat-heat and cholera, heat vexation, blurred vision. Isolated compounds: 1102.
- T5228 *Prunus mume* (Rosaceae); WU MEI; Japanese Apricot. Used part: unripe fruit. TCM Effects: To constrain lung and relieve cough, astringe intestines and check diarrhea, stanch bleeding, engender liquid, quiet roundworm, close sores. TCM Indications: Enduring cough, chronic diarrhea and dysentery, hematuria, hematochezia, flooding and spotting, vacuity heat with vexation and thirst, roundworm reversal with abdominal pain, outcrop of sore and welling abscess. Isolated compounds: 1102, 3766, 9717, 13419, 15279, 17328.
- T5229 *Prunus persica* (Rosaceae); TAO; Peach. Used part: fruit. TCM Effects: To engender liquid, moisten intestines, quicken blood, disperse accumulation. TCM Indications: Scant fluid and thirst, intestinal dry and constipation, amenorrhea, accumulation-gathering. Isolated compounds: 1102, 3318, 15068, 15069, 15477, 18003, 21143, 21171, 22217.
- T5230 *Prunus persica* (Rosaceae); TAO GEN; Peach Root. Used part: root. TCM Effects: To clear heat and disinhibit damp, quicken blood and relieve pain, disperse swollen welling abscess. TCM Indications: Jaundice, sand *qi* abdominal pain, lumbago, taxation damage due to knocks and falls, wind-damp impediment pain, amenorrhea, blood ejection, spontaneous external bleeding, swollen welling abscess, hemorrhoids. Isolated compounds: 6864, 9457.
- T5231 *Prunus persica* (Rosaceae); TAO HUA; Peach Flower. Equivalent plant: SHAN TAO HUA. Used part: flower. TCM Effects: To disinhibit water and free stool, quicken blood and transform stasis. TCM Indications: Inhibited urination, edema, phlegm-rheum, sand strangury, stone strangury, beriberi, constipation, concretion and conglomeration, amenorrhea, mania and withdrawal, sore and papules. Isolated compounds: 15069, 15279, 21634.
- T5232 *Prunus persica* (Rosaceae); TAO JING BAI PI; Peach Bast. Equivalent plant: *Prunus davidiana*. Used part: bast. TCM Effects: To clear heat and disinhibit damp, resolve toxin, kill worms. TCM Indications: Edema, sand *qi* abdominal pain, lung heat asthma and oppression, welling abscess and flat abscess, scrofula, damp sore. Isolated compounds: 1764, 14768, 15279, 16992, 16993.
- T5233 *Prunus persica* (Rosaceae); TAO REN; Peach Kernel. Used part: seed. TCM Effects: To quicken blood and dispel stasis, moisten intestines and free stool. TCM Indications: Amenorrhea, dysmenorrhea, concretion and conglomeration, lump glomus, knocks and falls, intestinal dry and constipation. Isolated compounds: 1102, 3308, 14448.
- T5234 *Prunus persica* (Rosaceae); TAO YE; Peach Leaf. Used part: leaf. TCM Effects: To dispel wind and clear heat, dry damp and resolve toxin, kill worms. TCM Indications: Externally contracted wind evil, head wind, headache, wind impediment, eczema, swollen welling abscess and sores, lichen sore, malaria, trichomoniasis. Isolated compounds: 15279, 18421.
- T5235 *Prunus persica* (Rosaceae); TAO ZHI; Peach Juvenile Branch. Equivalent plant: *Prunus davidiana*. Used part: branchlet. TCM Effects: To quicken blood and free network vessels, resolve toxin, kill worms. TCM Indications: Pain in heart and abdomen, invisible worm sores. Isolated compounds: 1764, 15279, 16992, 16993, 19191.
- T5236 *Prunus pseudocerasus* (Rosaceae); YING TAO; Falsesour Cherry. Used part: fruit. TCM Effects: To supplement spleen and boost kidney. TCM Indications: Paralysis, spleen vacuity diarrhea, kidney vacuity and emission, pain in lumbus and legs, numbness in limbs. Isolated compounds: 8289, 9717, 19174.
- T5237 *Prunus puddun* (Rosaceae); PU DUN LI; Puddun Plum\*. Isolated compounds: 18001.
- T5238 *Prunus salicina* (Rosaceae); LI HE REN; Japanese Plum Kernel. Used part: seed. TCM Effects: To dispel stasis, disinhibit water, moisten

- intestines. **TCM Indications:** Knocks and falls, blood stasis swelling and pain, ascites, beriberi, intestinal dry and constipation. **Isolated compounds:** 1102.
- T5239 *Prunus salicina* (Rosaceae); LI ZI; Japanese Plum. **Used part:** fruit. **TCM Effects:** To clear heat, engender liquid, disperse accumulation. **TCM Indications:** Vacuity taxation with steaming bone, diabetes mellitus, food accumulation. **Isolated compounds:** 1048, 1102, 22492.
- T5240 *Prunus serotina* (Rosaceae); YE HEI YING; Wild Rum-cherry. **Isolated compounds:** 4135, 19542.
- T5241 *Prunus serrulata* var. *spontanea* (Rosaceae); YE SHENG SHAN YING TAO. **Isolated compounds:** 18007, 21865.
- T5242 *Prunus* sp. (Rosaceae). **Isolated compounds:** 8278, 13126, 17403.
- T5243 *Prunus* spp. (Rosaceae). **Isolated compounds:** 17399.
- T5244 *Prunus tomentosa* (Rosaceae); SHAN YING TAO; Downy Cherry. **Used part:** fruit. **TCM Effects:** To fortify spleen, boost *qi*, secure essence. **TCM Indications:** Food stagnation and diarrhea, constipation, beriberi, emission. **Isolated compounds:** 3308, 18411, 21436.
- T5245 *Prunus verecunda* (Rosaceae); WEI RUI LI; Verecun Plum\*. **Isolated compounds:** 18001.
- T5246 *Prunus yedoensis* (Rosaceae); RI BEN YING HUA; Tokyo Cherry. **Isolated compounds:** 15279, 19173.
- T5247 *Przewalskia tangutica* (Solanaceae); MA NIAO PAO; Tangut Przewalskia. **Used part:** root and seed. **TCM Effects:** To resolve spasm and relieve pain, disperse swelling. **TCM Indications:** Stomachache, cholecystitis, acute gastroenteritis, chronic gastroenteritis, innominate toxin swelling. **Isolated compounds:** 10872.
- T5248 *Psacalium peltatum* (Asteraceae); DUN ZHUANG LI JU; Matarique (in Mexico). **Used part:** root. **TCM Indications:** wind-damp (rheumatis)<sup>[5509]</sup>. **Isolated compounds:** 16792.
- T5249 *Psammaphysilla purpurea* ZI SHA ROU HAI MIAN; Sponge *Psammaphysilla purpurea*. **Isolated compounds:** 18212, 18213.
- T5250 *Psammosilene tunicoides* (Caryophyllaceae); JIN TIE SUO; Tuniclike *Psammosilene*. **Used part:** root. **TCM Effects:** To dissipate stasis and settle pain, stanch bleeding, disperse welling abscess and expel pus. **TCM Indications:** Knocks and falls, wind-damp pain, stomachache, welling abscess and boil, bleeding due to external injury. **Isolated compounds:** 4462, 4463, 4464, 4534, 8057, 8058, 8073, 8074, 8075, 14401, 18014, 18015, 18418.
- T5251 *Pseudoceratina purpurea*. **Isolated compounds:** 110.
- T5252 *Pseudodrynaria coronans* (Polypodiaceae); CHUAN SHI JIAN; Rock-ginger Fern. **Used part:** rhizome. **TCM Effects:** See *Drynaria fortunei*. **TCM Indications:** See *Drynaria fortunei*. **Isolated compounds:** 9642.
- T5253 *Pseudoelephantopus spicatus* (Asteraceae); JIA DI DAN CAO; Spicate Pseudoelephantopus. **Isolated compounds:** 4203.
- T5254 *Pseudognaphalium cheiranthifolium*. **Isolated compounds:** 7015.
- T5255 *Pseudognaphalium heterotrichium*. **Isolated compounds:** 7015.
- T5256 *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (Pinaceae); TU JING PI; Chinese Golden Larch. **Used part:** root cortex and bark near root. **TCM Effects:** To dispel wind and eliminate damp, kill worms and relieve itch. **TCM Indications:** Scab and lichen, eczema, neurodermatitis. **Isolated compounds:** 489, 4769, 4770, 6104, 14702, 14703, 18031, 18032, 18033, 18034, 18035, 18036, 18037, 18038, 18039, 18040, 18041, 18042, 18043, 18044, 18045, 18046, 18047, 18048, 18049.
- Pseudolarix kaempferi* = *Pseudolarix amabilis*
- T5257 *Pseudophegopteris bukoensis* (Thelypteridaceae). **Isolated compounds:** 17974.
- T5258 *Pseudophegopteris hirtirachis* (Thelypteridaceae). **Isolated compounds:** 17974.
- T5259 *Pseudophegopteris subaurita* (Thelypteridaceae); GUANG NANG ZI BING JUE; Long-eared *Pseudophegopteris*. **Isolated compounds:** 17974.
- T5260 *Pseudostellaria heterophylla* (Caryophyllaceae); YI YE JIA FAN LV; Heterophylla Falsestarwort. **Used part:** root. **TCM Effects:** To boost *qi* and fortify spleen, moisten lung and engender liquid. **TCM Indications:** Spleen vacuity and fatigued body, inappetence, weakness during convalescence, *qi* and *yin* vacuity, thirst due to spontaneous sweating, dry cough due to lung dryness. **Isolated compounds:** 1526, 1673, 9569, 14870, 18064, 18065, 18066, 18067, 18068, 18069.
- T5261 *Pseudotsuga sinensis* (Pinaceae); HUANG SHAN; China Douglas Fir. **Isolated compounds:** 10481, 21134.
- T5262 *Pseuduvaria* spp. (Annonaceae). **Isolated compounds:** 15751.
- T5263 *Psidium anchusifolia*. **Isolated compounds:** 6372, 21204.
- T5264 *Psidium dentata*. **Isolated compounds:** 11569.
- T5265 *Psidium guajava* (Myrtaceae); FAN SHI LIU GAN; Guava Unripe Fruit. **Used part:** unripe fruit. **TCM Effects:** To promote contraction and check drain, stanch bleeding. **TCM Indications:** Chronic dysentery, flooding and spotting. **Isolated compounds:** 2039, 3301, 3303, 8095, 9043, 12714, 18837, 20910.
- T5266 *Psidium guajava* (Myrtaceae); FAN SHI LIU PI; Guava Bark. **Used part:** bark. **TCM Effects:** To promote astriction, check diarrhea, close sores. **TCM Indications:** Damp toxin of scab sore, toothache, sore and boil in children. **Isolated compounds:** 1083, 1736, 3296, 12714, 13125.
- T5267 *Psidium guajava* (Myrtaceae); FAN SHI LIU YE; Guava Leaf. **Used part:** leaf. **TCM Effects:** To dry damp and fortify spleen, clear heat and resolve toxin. **TCM Indications:** Dysentery, food accumulation abdominal distention, gingiva painful swelling, wind-damp impediment pain, eczema shank sore, swelling toxin of clove sore, painful swelling from knocks and falls, bleeding due to external injury, snake or insect bites. **Isolated compounds:** 1083, 2039, 7521, 9043, 9073, 9074, 12714, 18378, 20389.
- T5268 *Psidium guajava* (Myrtaceae); FAN SHI LIU ZI; Guava Seed. **Used part:** seed. **TCM Effects:** To relieve pain, arrest diarrhea. **TCM Indications:** Abdominal pain, diarrhea. **Isolated compounds:** 6284, 6285.
- T5269 *Psilotum nudum* (Psilotaceae); SHI SHUA BA; Nude Fern. **Used part:** whole herb. **TCM Effects:** To dispel wind and eliminate damp, quicken blood and stanch bleeding. **TCM Indications:** Wind-damp impediment pain, wind papules, amenorrhea, blood ejection, knocks and falls. **Isolated compounds:** 1031, 1032, 1033, 18084, 18085.
- T5270 *Psoralea corylifolia* (Fabaceae); BU GU ZHI; Malaytea Scurfpea. **Used part:** fruit. **TCM Effects:** To supplement kidney and invigorate *yang*, accept *qi* and calm asthma, warm spleen and check diarrhea. **TCM Indications:** Fracture, osteomalacia, osteoporosis, kidney *yang* vacuity, cold pain in lumbus and knees, impotence and emission,

- frequent urination, enuresis, kidney *qi* insecurity, vacuity asthma, spleen-kidney vacuity, chronic diarrhea, white patch wind, alopecia areata, psoriasis. Isolated compounds: 1191, 2081, 2123, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 4107, 4108, 4109, 4110, 4680, 6537, 11248, 11345, 11557, 11632, 15203, 15341, 15342, 18086, 18087, 18088, 18089, 20081, 20280, 20369, 21537, 22774.
- T5271 *Psoralea drupacea* (Fabaceae); HE GUO ZHUANG BU GU ZHI; Drupaceous Scurfpea\*. Isolated compounds: 2081.
- T5272 *Psorospermum febrifugum* (Clusiaceae); PU SUO MU. TCM Effects: To resolve heat, resolve toxin, free stool<sup>[5509]</sup>. TCM Indications: Constipation, numbing wind (leprosy)<sup>[5509]</sup>. Isolated compounds: 18091, 22551.
- T5273 *Psorothamnus junceus* (Fabaceae); DENG XIN DAI ER DOU. Isolated compounds: 18092.
- T5274 *Psychotria beccaroides* (Rubiaceae); BI CHUAN JIU JIE MU. Isolated compounds: 18094.
- T5275 *Psychotria forsteriana* (Rubiaceae); FU SI TE JIU JIE; Forster Ninenode\*. Isolated compounds: 18295, 18296.
- T5276 *Psychotria leiocarpa* (Rubiaceae); PING HUA GUO JIU JE; Leio-fruit Ninenode\*. Isolated compounds: 8746.
- T5277 *Psychotria oleoides* (Rubiaceae); YOU GAN LAN JIU JIE; Olive Ninenode\*. Isolated compounds: 18093.
- T5278 *Psychotria rostrata* (Rubiaceae); HUI ZHUANG JIU JIE; Rostral Ninenode\*. Isolated compounds: 18296.
- T5279 *Psychotria serpens* (Rubiaceae); MAN JIU JIE; Creeping Ninenode. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, disperse swelling and relieve pain. TCM Indications: Pain in joints due to rheumatism, deadlimb, taxation damage in lumbar muscle, sciatica, multiple swollen welling abscess, bone tuberculosis, knocks and falls, fracture, poisonous snake bite. Isolated compounds: 14144, 20369.
- T5280 *Ptaeroxylon obliquum* (Ptaeroxylaceae). Isolated compounds: 14125, 18097.
- T5281 *Ptelea* sp. (Rutaceae). Isolated compounds: 15645.
- T5282 *Ptelea trifoliata* (Rutaceae); YU JU; Common Hoptree. Isolated compounds: 13904, 14446, 14705, 15348, 18102.
- T5283 *Pteridium aquilinum* (Pteridaceae); OU ZHOU JUE; Bracken. Isolated compounds: 6678, 18000, 18099, 18100, 18101, 18124, 18150, 18151.
- T5284 *Pteridium aquilinum* var. *latiusculum* (Pteridaceae); JUE; Eastern Bracken Fern. Used part: tender leaf. TCM Effects: To clear heat and disperse damp, downbear *qi* and transform phlegm, stanch bleeding. TCM Indications: Common cold with fever, jaundice, dysentery, vaginal discharge, dysphagia-occlusion, tuberculosis and hemoptysis, intestinal wind bleeding, wind-damp impediment pain. Isolated compounds: 490, 2267, 11013, 11351, 16565, 16566, 16567, 17700, 17703, 18098, 18112, 18116, 18117, 18118, 18119, 18120, 18121, 18122, 18131, 18132, 18133, 18134, 18135, 18136, 18137, 18138, 18145, 18146, 18147, 18149, 18161, 18162.
- T5285 *Pteridophyllum* spp. Isolated compounds: 3498.
- T5286 *Pteris bella* (Pteridaceae); CHANG BING FENG WEI JUE; Pretty Brake. Isolated compounds: 18155.
- T5287 *Pteris cretica* (Pteridaceae); DA YE JING KOU BIAN CAO; Cretan Brake. Isolated compounds: 18154.
- T5288 *Pteris cretica* var. *nervosa* [Syn. *Pteris nervosa*] (Pteridaceae); FENG WEI JUE; Nervous Brake. Used part: whole herb. TCM Effects: To clear heat and disperse damp, stanch bleeding and engender flesh, resolve toxin and disperse swelling. TCM Indications: Diarrhea, dysentery, jaundice, strangury syndrome, edema, coughing of blood, hematuria, hematochezia, bleeding knife wound, painful swelling from knocks and falls, sore and welling abscess, burns and scalds. Isolated compounds: 18098, 18154.
- T5289 *Pteris dactylina* (Pteridaceae); JIN JI WEI; Figuerleaved Brake. Used part: whole herb or rhizome. TCM Effects: To clear heat and resolve toxin, disperse damp and transform damp, settle fright. TCM Indications: Dysentery, diarrhea, mumps, lymphadenitis, leukorrhea, edema, infant fright wind, rabid dog bite. Isolated compounds: 18150, 18152.
- T5290 *Pteris fauriei* [Syn. *Pteris fauriei* var. *minor*] (Pteridaceae); JIN CHAI FENG WEI JUE; Faurie's Brake. Used part: leaf. TCM Effects: To clear heat and disperse damp, dispel wind and settle fright, close sores and stanch bleeding. TCM Indications: Dysentery, diarrhea, jaundice, infant fright wind, bleeding due to external injury, burns and scalds. Isolated compounds: 18126, 18127, 18128, 18129, 18130, 18158, 18159.  
*Pteris fauriei* var. *minor* = *Pteris fauriei*
- T5291 *Pteris inaequalis* (Pteridaceae); BIAN YI FENG WEI JUE; Unequal Brake. Isolated compounds: 18126, 18127.
- T5292 *Pteris kiuschiensis* (Pteridaceae); PING YU FENG WEI JUE; Kiushu Brake. Isolated compounds: 18155, 18156.
- T5293 *Pteris linearis* (Pteridaceae); XIAN YU FENG WEI JUE; Linear Brake. Isolated compounds: 18155.
- T5294 *Pteris livida* (Pteridaceae). Isolated compounds: 18154.
- T5295 *Pteris multifida* (Pteridaceae); FENG WEI CAO; Chinese Brake. Used part: whole herb or rhizome. TCM Effects: To clear heat and disperse damp, resolve toxin and disperse swelling, cool blood and stanch bleeding. TCM Indications: Dysentery, diarrhea, strangury-turbidity, vaginal discharge, jaundice, swelling toxin of clove sore, throat impediment with nipple moth, scrofula, parotitis, mastitis, ardent fever and convulsion, snake or insect bites, blood ejection, spontaneous external bleeding, hematuria, hematochezia, bleeding due to external injury. Isolated compounds: 18139, 18150, 18154, 18289, 18290.  
*Pteris nervosa* = *Pteris cretica* var. *nervosa*
- T5296 *Pteris oshimensis* (Pteridaceae); XIE YU FENG WEI JUE; Oblique Pinna Brake. Isolated compounds: 18125, 18152.
- T5297 *Pteris plumbea* (Pteridaceae); LI BING FENG WEI JUE; Lead-coloured Brake. Used part: whole herb. TCM Effects: To clear heat and disperse damp, quicken blood and stanch bleeding. TCM Indications: Dysentery, knocks and falls, bleeding knife wound. Isolated compounds: 16849, 18107, 18108, 18109, 18110, 18111.
- T5298 *Pteris vittata* (Pteridaceae); WU GONG CAO; Chinese Brake. Used part: whole herb or rhizome. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken network vessels, resolve toxin and kill worms. TCM Indications: Wind-damp pain in sinew and bone, lumbago, numbness in limbs, hemiplegia, knocks and falls, common cold, dysentery, mammary welling abscess, sore toxin, scab sore, ascariasis, snake or insect bites. Isolated compounds: 12525.

- T5299 *Pteris wallichiana* (Pteridaceae); SAN CHA FENG WEI JUE; Wallich's Brake. Used part: whole herb. TCM Effects: To clear heat and check dysentery, settle fright, stanch bleeding. TCM Indications: Dysentery, infant fright wind, bleeding due to external injury. Isolated compounds: 18125.
- T5300 *Pterocarpus angolensis* (Fabaceae); AN GE LA ZI TAN; Angola Padauk\*. Isolated compounds: 15998, 18001.
- T5301 *Pterocarpus indicus* (Fabaceae); ZI TAN; Burmacoast Padauk. Used part: wood. TCM Effects: To dispel stasis and harmonize construction, stanch bleeding and settle pain. TCM Indications: Headache, pain in heart and abdomen, persistent flow of lochia, dribbling pain of urination, wind toxin and swollen welling abscess, incised wound and bleeding. Isolated compounds: 1240, 6290, 7883, 18103, 18104, 18163.
- T5302 *Pterocarpus marsupium* (Fabaceae); NANG ZHUANG ZI TAN; Vengai Padauk. Isolated compounds: 8620, 13579, 18105, 18106, 18115, 18164, 22476, 22477.
- T5303 *Pterocarpus officinalis* (Fabaceae); YAO YONG ZI TAN; Medicinal Padauk\*. Isolated compounds: 10877.
- T5304 *Pterocarpus osun* (Fabaceae); E SUN ZI TAN; Osun Padauk\*. Isolated compounds: 18103.
- T5305 *Pterocarpus santalinus* (Fabaceae); SI ZI TAN; Sandalwood Padauk. Isolated compounds: 2983, 5761, 8307, 9818, 10522, 10753, 13678, 18103, 18163, 19427, 19912.
- T5306 *Pterocarpus* sp. (Fabaceae). Isolated compounds: 6853, 18020.
- T5307 *Pterocarpus* spp. (Fabaceae). Isolated compounds: 3004.
- T5308 *Pterocarya stenoptera* (Juglandaceae); MA LIU YE; Chinese Wingnut. Used part: leaf. TCM Effects: To dispel wind and relieve pain, kill worms and relieve itch, resolve toxin and close sores. TCM Indications: Wind-damp impediment pain, toothache, knee joint pain, scab and lichen, eczema, trichomoniasis, scalds, wound, enduring sores, bilharziosis, cough and asthma. Isolated compounds: 19187.
- T5309 *Pterocladia tenuis* (Gelidiaceae); JI MAO CAI; Chicken-feather Vegetable\*. Used part: frond. TCM Effects: To clear heat and drain fire, soften hardness and transform phlegm. TCM Indications: Lung heat abundant phlegm dry cough, laryngitis, chronic constipation. Isolated compounds: 18281.
- T5310 *Pterospermum lanceaefolium* (Sterculiaceae); ZHAI YE BAN FENG HE; Lanceleaf Wingseedtree. Used part: leaf. TCM Effects: To quicken blood and stanch bleeding. TCM Indications: Bleeding due to external injury. Isolated compounds: 2170, 6854, 12020, 18317, 18411, 19542, 19983.
- T5311 *Pueraria calycina* (Fabaceae); HUANG MAO GE; Yellow-hairy Calyx Kudzuvine. Isolated compounds: 4604, 18180.
- T5312 *Pueraria edulis* (Fabaceae); SHI YONG GE; Edible Kudzuvine. Used part: tuberoid. TCM Effects: See *Pueraria lobata*. TCM Indications: See *Pueraria lobata*. Isolated compounds: 4604, 4606, 18180.
- T5313 *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (Fabaceae); GE GEN; Lobed Kudzuvine Root. Equivalent plant: *Pueraria thomsonii*, *Pueraria edulis*, *Pueraria omeiensis*, *Pueraria phaseoloides*. Used part: tuberoid. TCM Effects: To engender liquid, outthrust papules, upbear yang and check diarrhea. TCM Indications: Angina pectoris, hypertension, headache due to externally contracted wind-heat, rigidity of neck, thirst, diabetes mellitus, non-eruption of measles, heat dysentery, diarrhea, deafness in early stage, optic nerve atrophy, retinitis. Isolated compounds: 917, 1598, 4190, 4604, 4605, 4606, 4680, 5345, 7883, 7885, 8278, 8282, 12113, 12308, 12309, 13445, 14080, 14494, 14706, 18180, 18181, 18182, 18183, 18184, 18185, 18186, 18859, 19540, 19983, 20083, 21751, 21781, 22080.
- T5314 *Pueraria lobata* var. *thomsonii* (Fabaceae); FEN GE; Thomson Kudzuvine. Isolated compounds: 4604, 4606, 18180.
- T5315 *Pueraria mirifica* (Fabaceae); GUO YE GE; Mirifica Kudzuvine. Isolated compounds: 14883.
- T5316 *Pueraria omeiensis* (Fabaceae); E MEI GE; Omei Kudzuvine. Used part: tuberoid. TCM Effects: See *Pueraria lobata*. TCM Indications: See *Pueraria lobata*. Isolated compounds: 4604, 4606, 18180.
- T5317 *Pueraria peduncularis* (Fabaceae); YUN NAN GE TENG; Yunnan Kudzuvine. Used part: lianoid stem or root. TCM Effects: To kill worms (stem), upbear yang and resolve exterior (root). TCM Indications: Impotence, common cold (root). Isolated compounds: 4604, 6061, 6062, 7273, 8663, 8683, 18180.
- T5318 *Pueraria phaseoloides* (Fabaceae); SAN LIE YE GE; Trilobedleaf Kudzuvine. Used part: tuberoid. TCM Effects: See *Pueraria lobata*. TCM Indications: See *Pueraria lobata*. Isolated compounds: 4604, 4606, 18180.
- Pueraria pseudohirsuta* = *Pueraria lobata*
- T5319 *Pueraria* spp. (Fabaceae). Isolated compounds: 18180.
- T5320 *Pueraria thomsonii* (Fabaceae); GAN GE TENG GEN; Thomson Kudzuvine Root. Used part: tuberoid. TCM Effects: See *Pueraria lobata*. TCM Indications: See *Pueraria lobata*. Isolated compounds: 4605, 4606, 14706, 18180.
- Pueraria thunbergiana* = *Pueraria lobata*
- T5321 *Pueraria tuberosa* (Fabaceae); KUAI JING GE; Tuberos Kudzuvine\*. Isolated compounds: 20369, 22080.
- T5322 *Pulicaria wightiana* (Fabaceae); ZAO CAO; Pulicaria\*. Isolated compounds: 16741, 16742, 16743, 16744, 16745.
- T5323 *Pulsatilla campanella* (Ranunculaceae); ZHONG E BAI TOU WENG; Bellcalyx Pulsatilla. Used part: root. TCM Effects: See *Pulsatilla chinensis*. TCM Indications: See *Pulsatilla chinensis*. Isolated compounds: 12642, 12643, 18195, 18196.
- T5324 *Pulsatilla cernua* (Ranunculaceae); CHAO XIAN BAI TOU WENG; Korean Pulsatilla. Used part: root. TCM Effects: See *Pulsatilla chinensis*. TCM Indications: See *Pulsatilla chinensis*. Isolated compounds: 3433, 19316, 20369.
- T5325 *Pulsatilla chinensis* (Ranunculaceae); BAI TOU WENG; Chinese Pulsatilla. Equivalent plant: *Pulsatilla cernua*, *Pulsatilla campanella*, *Pulsatilla dahurica*. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and check diarrhea, dry damp and kill worms. TCM Indications: Amebic dysentery, nosebleed, flooding and spotting, bleeding from hemorrhoids, cold-heat warm malaria, vaginal discharge, pudendal itch, eczema, scrofula, welling abscess, painful red eyes, neurodermatitis. Isolated compounds: 266, 1178, 1179, 1180, 1181, 1182, 3340, 4431, 4680, 5951, 5952, 6106, 9260, 10674, 10675, 16295, 18191, 18192, 18193, 18194, 18545, 18686.
- T5326 *Pulsatilla dahurica* (Ranunculaceae); XING AN BAI TOU WENG; Dahurian Pulsatilla\*. Used part: root. TCM Effects: See *Pulsatilla*

- chinensis*. TCM Indications: See *Pulsatilla chinensis*. Isolated compounds: 12642, 12644.
- T5327 *Punica granatum* (Punicaceae); SHI LIU GEN; Pomegranate Root. Used part: root. TCM Effects: To kill worms, astrin角度 intestines, check discharge. TCM Indications: Ascariasis, taeniasis, chronic diarrhea, chronic dysentery, red and white vaginal discharge. Isolated compounds: 6632, 8808, 14534, 16781, 16789, 18055.
- T5328 *Punica granatum* (Punicaceae); SHI LIU PI; Pomegranate Peel. Used part: pericarp. TCM Effects: To astrin角度 intestines and check diarrhea, stanch bleeding, expel worms. TCM Indications: Chronic diarrhea, chronic dysentery, hematochezia, prolapse of rectum, flooding and spotting, leukorrhea, abdominal pain due to worm accumulation. Isolated compounds: 7951, 8095, 14534, 16789, 18200, 18201, 18202, 18204, 18205, 18206, 21177.
- T5329 *Punica granatum* (Punicaceae); SHI LIU XIN CAI; Pomegranate Heartwood. Used part: root. TCM Effects: To expel worms, astrin角度 intestines, check discharge. TCM Indications: Ascariasis, taeniasis, enduring diarrhea, enduring dysentery, red and white vaginal discharge. Isolated compounds: 5485, 6347, 8115, 14344.
- T5330 *Punica granatum* (Punicaceae); SHI LIU YE; Pomegranate Leaf. Used part: leaf. TCM Effects: To promote contraction and check drain, resolve toxin and kill worms. TCM Indications: Diarrhea, furunculosis, *lai* sore, knocks and falls. Isolated compounds: 17805.
- T5331 *Punica granatum* (Punicaceae); SHI LIU ZHONG ZI; Pomegranate Seed. Isolated compounds: 3984, 4680, 6344, 10949, 17087, 19923, 21955.
- T5332 *Punica granatum* (Punicaceae); SUAN SHI LIU; Pomegranate. Used part: fruit. TCM Effects: To allay thirst, astrin角度 intestines, stanch bleeding. TCM Indications: Diarrhea, chronic dysentery, flooding and spotting, vaginal discharge. Isolated compounds: 7387, 18203, 21576.
- T5333 *Punica granatum* cv. *nana* (Punicaceae); YUE JI SHI LIU; Dwarf Pomegranate. Isolated compounds: 7387.
- T5334 *Putoria calabrica* (Rubiaceae). Isolated compounds: 18226, 18227.
- T5335 *Putranjiva roxburghii* (Euphorbiaceae). Isolated compounds: 18229.
- T5336 *Putterlickia verrucosa* DUO ZHI PU TE MU. Isolated compounds: 15776.
- T5337 *Pycnarrhena longifolia* (Menispermaceae). Isolated compounds: 9597.
- T5338 *Pycnarrhena ozantha* (Menispermaceae). Isolated compounds: 15804.
- T5339 *Pycnoporus sanguineus* (Polyporaceae); XUE HONG SHUAN JUN. Used part: sporocarp. TCM Effects: See *Trametes cinnabarina*. TCM Indications: See *Trametes cinnabarina*. Isolated compounds: 18231.
- T5340 *Pygeum topengii* (Rosaceae); TUN XING GUO; Topeng Pygeum. Used part: bark. TCM Indications: Maybe cure prostatauxe. Isolated compounds: 4680, 6178, 7657, 7951.
- T5341 *Pygmaeopremna herbacea* [Syn. *Premna herbacea*] (Verbenaceae); QIAN JIE CAO; Herbaceous Pygmaeopremna. Used part: whole herb. TCM Effects: To quicken blood and relieve pain, dispel wind and eliminate damp, fortify spleen and disperse food. TCM Indications: Knocks and falls, wind-damp impediment pain, pain in stomach duct, indigestion, diarrhea, toxin swelling of sores. Isolated compounds: 5468, 18232, 18233, 18234, 18235, 18236.
- T5342 *Pyrenula japonica* (Pyrenulaceae); RI BEN XIAO HE YI; Asian lichen. Isolated compounds: 5993, 21810.
- T5343 *Pyrethrum* sp. (Asteraceae). Isolated compounds: 22103.
- T5344 *Pyrola atropurpurea* (Pyrolaceae); ZI BEI LU TI CAO; Purpleback Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 9594, 10887.
- T5345 *Pyrola calliantha* [Syn. *Pyrola rotundifolia* ssp. *chinensis*] (Pyrolaceae); LU XIAN CAO; Chinese Pyrola. Equivalent plant: *Pyrola decorata*, *Pyrola japonica*, *Pyrola incarnata*, *Pyrola rotundifolia*, *Pyrola atropurpurea*, *Pyrola calliantha* var. *tibetana*. Used part: whole herb. TCM Effects: To dispel wind-damp, strengthen sinews and bones, stanch bleeding. TCM Indications: Pulmonary infection, intestinal infection, urinary tract infection, infant diarrhea, acute dysentery, wind-damp impediment pain, lassitude in lumbus and knees, profuse menstruation, enduring cough. Isolated compounds: 1618, 3526, 5763, 8095, 9594, 10887, 18270, 18317, 18620.
- T5346 *Pyrola calliantha* var. *tibetana* (Pyrolaceae); XI ZANG LU TI CAO; Tibet Pyrola\*. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 9594.
- T5347 *Pyrola decorata* (Pyrolaceae); PU TONG LU TI CAO; Common Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 1935, 9594, 10887, 11642, 18270.
- T5348 *Pyrola forrestiana* (Pyrolaceae); DA LI LU TI CAO; Forrest Pyrola. Isolated compounds: 9594.
- T5349 *Pyrola incarnata* (Pyrolaceae); HONG HUA LU TI CAO; Redflower Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 3526, 9594, 10888, 11456, 17876, 17881, 17884, 17892, 17896, 22270.
- T5350 *Pyrola japonica* (Pyrolaceae); RI BEN LU TI CAO; Japanese Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 1618, 3526, 6336, 8697, 9363, 9594, 10150, 10198, 10200, 14933, 16050, 17476, 18317, 19983, 22270.
- T5351 *Pyrola rotundifolia* (Pyrolaceae); YUAN YE LU TI CAO; European Pyrola. Used part: whole herb. TCM Effects: See *Pyrola calliantha*. TCM Indications: See *Pyrola calliantha*. Isolated compounds: 1618, 9594, 11456, 18268, 18269, 18270, 18620.  
*Pyrola rotundifolia* ssp. *chinensis* = *Pyrola calliantha*
- T5352 *Pyrola rugosa* (Pyrolaceae); ZHOU YE LU TI CAO; Wrinkledleaf Pyrola. Isolated compounds: 9594, 22270.  
*Pyropolyporus fomentarius* = *Fomes fomentarius*
- T5353 *Pyrrrosia calvata* (Polypodiaceae); GUANG SHI WEI; Bald Pyrrosia. Isolated compounds: 11524, 13481.
- T5354 *Pyrrrosia davidii* (Polypodiaceae); BEI JING SHI WEI; Peking Pyrrosia Frond. Used part: leaf. TCM Effects: See *Pyrrrosia lingua*. TCM Indications: See *Pyrrrosia lingua*. Isolated compounds: 3551, 13481.
- T5355 *Pyrrrosia drakeana* (Polypodiaceae); ZHAN MAO SHI WEI; Panniform Pyrrosia. Used part: leaf. TCM Effects: See *Pyrrrosia lingua*. TCM Indications: See *Pyrrrosia lingua*. Isolated compounds: 3551, 7283.
- T5356 *Pyrrrosia gralla* (Polypodiaceae); XI NAN SHI WEI; Stilted Pyrrosia.

## Q

- Used part: leaf. TCM Effects: See *Pyrrosia lingua*. TCM Indications: See *Pyrrosia lingua*. Isolated compounds: 3551, 7283.
- T5357 *Pyrrosia lingua* (Polypodiaceae); SHI WEI; Japanese Felt Fern Frond. Equivalent plant: *Pyrrosia sheareri*, *Pyrrosia davidii*, *Pyrrosia petiolosa*. Used part: leaf. TCM Effects: To disinhibit urine and free strangury, clear heat and stanch bleeding. TCM Indications: Heat strangury, blood strangury, stone strangury, urinary stoppage, dripping with inhibited pain, blood ejection, nosebleed(epistaxis), hematuria, flooding and spotting, lung heat cough asthma, urethral stone, urinary tract infection, bleeding. Isolated compounds: 3551, 7283, 9641, 11524, 11642, 12020, 13481, 18317, 19983, 20446, 21634.
- T5358 *Pyrrosia petiolosa* (Polypodiaceae); YOU BING SHI WEI; Petioled *Pyrrosia* Frond. Used part: leaf. TCM Effects: See *Pyrrosia lingua*. TCM Indications: See *Pyrrosia lingua*. Isolated compounds: 3551, 7283, 11524, 13481.
- T5359 *Pyrrosia pseudocalvata* (Polypodiaceae); NI GUANG SHI WEI; Pseudobald *Pyrrosia*\*. Isolated compounds: 3551, 11524, 13481.
- T5360 *Pyrrosia sheareri* (Polypodiaceae); LU SHAN SHI WEI; Shearer's *Pyrrosia* Frond. Used part: leaf. TCM Effects: See *Pyrrosia lingua*. TCM Indications: See *Pyrrosia lingua*. Isolated compounds: 2887, 3551, 5763, 7283, 7996, 9641, 11524, 13481, 19983, 20446.
- T5361 *Pyrus betulaeifolia* (Rosaceae); TANG LI; Birchleaf Pear. Used part: fruit. TCM Effects: To constrain lung, astringe intestines, disperse food. TCM Indications: Cough, diarrhea, dysentery, food accumulation. Isolated compounds: 15363.
- T5362 *Pyrus bretschneideri* (Rosaceae); LI YE; Bretschneider Pear Leaf. Equivalent plant: *Pyrus pyrifolia*. Used part: leaf. TCM Effects: To soothe liver and harmonize stomach, disinhibit water and resolve toxin. TCM Indications: Cholera with vomiting and diarrhea, edema, inhibited urination, child mounting *qi*, poisoning of mushrooms. Isolated compounds: 1618, 11325, 11326.
- T5363 *Pyrus calleryana* (Rosaceae); YE LI ZHI YE; Callery Pear Branch-leaf. Used part: branchlet-leaf. TCM Effects: To clear heat and resolve toxin, moisten lung and relieve cough, move *qi* and fortify stomach. TCM Indications: Incessant vomiting and diarrhea, abdominal pain and cramp, stomach reflux vomiting. Isolated compounds: 1618, 2894, 5769, 9820, 17966, 17969, 22340.
- T5364 *Pyrus communis* (Rosaceae); XI YANG LI; Common Pear. Isolated compounds: 324, 1618, 9740, 18280.
- T5365 *Pyrus pashia* (Rosaceae); CHUAN LI GUO; Pashi Pear Fruit. Used part: fruit. TCM Effects: To disperse food and transform accumulation, dispel stasis and relieve pain. TCM Indications: Meat-type food accumulation, indigestion, diarrhea, dysmenorrhea, postpartum blood stasis abdominal pain, hypertension. Isolated compounds: 7951.
- T5366 *Pyrus pyrifolia* (Rosaceae); SHA LI YE; Sand Pear Leaf. Used part: leaf. TCM Effects: See *Pyrus bretschneideri*. TCM Indications: See *Pyrus bretschneideri*. Isolated compounds: 1618.
- T5367 *Pyrus* sp. (Rosaceae). Isolated compounds: 7729.
- T5368 *Python molurus bivittatus* (Boidae); MANG SHE; Indian Python. Used part: meat. TCM Effects: To dispel wind and quicken network vessels, kill worms and relieve itch. TCM Indications: Wind impediment, paralysis, leprosy, scab and lichen, malign sore. Isolated compounds: 20038.
- T5369 *Quassia africana* (Simaroubaceae); FEI ZHOU KU MU; African Quassia\*. Isolated compounds: 15554, 19900.
- T5370 *Quassia amara* (Simaroubaceae); MEI ZHOU KU MU; Surinam Quassia. Isolated compounds: 15454, 15549, 15561, 18298, 18299, 19900.
- T5371 *Quercus aliena* (Fagaceae); HU LI; Peking Oak. Isolated compounds: 17754.
- T5372 *Quercus dentata* (Fagaceae); HU YE; Daimyo Oak Leaf. Used part: leaf. TCM Effects: To stanch bleeding, free strangury. TCM Indications: Spontaneous external bleeding, blood ejection, hematochezia, bleeding from hemorrhoids, blood dysentery, dribbling pain of urination. Isolated compounds: 12038.
- T5373 *Quercus iberica* (Fagaceae); YI BI LI YA LI; Iberian Oak\*. Isolated compounds: 18317.
- T5374 *Quercus infectoria* (Fagaceae); MO SHI ZI; Aleppo Gall (*Galla Halepensis*). Used part: cecidium. TCM Effects: To secure *qi* and rough essence, constrain lung, stanch bleeding. TCM Indications: Diarrhea, hematochezia, emission, genital sweating, cough, hemoptysis, toothache, bleeding due to external injury, enduring sores. Isolated compounds: 8095, 16836, 20566.
- T5375 *Quercus mongolica* (Fagaceae); MENG GU LI; Mongolian Oak. Used part: leaf. TCM Effects: To clear heat and check dysentery, relieve cough, resolve toxin and disperse swelling. TCM Indications: Bacillary dysentery, child indigestion, swollen welling abscess, hemorrhoids. Isolated compounds: 7951, 8788, 9479.
- T5376 *Quercus phillyraeoides* (Fagaceae); FEI LI GUI LI; Mocketprivet-like Oak. Isolated compounds: 17144.
- T5377 *Quercus robur* (Fagaceae); OU ZHOU BAI LI; Common Oak. Isolated compounds: 18410.
- T5378 *Quercus rubra* (Fagaceae); HONG LI; Spanish Oak. Isolated compounds: 9202.
- T5379 *Quercus* sp. (Fagaceae). Isolated compounds: 3301, 3983, 7518, 19910, 20910.
- T5380 *Quercus* spp. (Fagaceae). Isolated compounds: 16765.
- T5381 *Quercus tinctoria* (Fagaceae); ZHUO SE LI; Black Oak. Isolated compounds: 18411.
- T5382 *Quillaja saponaria* (Rosaceae); ZAO PI SHU; Soapbark Tree. Isolated compounds: 18418.
- T5383 *Quisqualis fructus* (Combretaceae). Isolated compounds: 18452.
- T5384 *Quisqualis indica* (Combretaceae); SHI JUN ZI; Rangooncreeper. Used part: ripe fruit. TCM Effects: To resolve toxin and kill worms, eliminate food stagnation. TCM Indications: Ascariasis, oxyuria disease, child *gan* accumulation. Isolated compounds: 17746, 18452, 21662.
- T5385 *Quisqualis indica* (Combretaceae); SHI JUN ZI YE; Rangooncreeper Leaf. Used part: leaf. TCM Effects: To rectify *qi* and fortify spleen, resolve toxin and kill worms. TCM Indications: Child *gan* accumulation, distention fullness in stomach duct and abdomen, worm accumulation, ulcerating sore and boil. Isolated compounds: 17746, 21662.
- T5386 *Quisqualis indica* var. *villosa* (Combretaceae); MAO SHI JUN ZI;



Villous Rangoon Creeper\*. Isolated compounds: 18452.

T5387 *Quivisia papinae*. Isolated compounds: 4714, 9808, 18453.

## R

T5388 *Rabdosia adenantha* (Lamiaceae); XIAN HUA XIANG CHA CAI; Glandularflower Rabdosia. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Heat toxin sores, diarrhea, dysentery. Isolated compounds: 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 619, 621, 622, 623, 2949, 7917, 11391, 15507, 22657.

T5389 *Rabdosia coetsa* (Lamiaceae); XI ZHUI XIANG CHA CAI; Littleconical Rabdosia. Used part: aerial parts. TCM Effects: To effuse exterior and dissipate wind, transform damp and harmonize center, stanch bleeding. TCM Indications: Wind-cold common cold, vomiting, diarrhea, wind-damp numbness pain, eczema titillation, leg *qi* damp-erosion, bleeding knife wound. Isolated compounds: 3895, 3896, 3897, 18456, 18457, 18458, 18459.

T5390 *Rabdosia coetsoides* (Lamiaceae); JIA XI ZHUI XIANG CHA CAI; Falselittleconical Rabdosia. Isolated compounds: 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905.

T5391 *Rabdosia ericalyx* (Lamiaceae); MAO E XIANG CHA CAI; Hairysepal Rabdosia. Used part: leaf or root. TCM Effects: To dispel wind and eliminate damp, resolve toxin and kill worms. TCM Indications: Common cold with headache, wind-damp impediment pain, diarrhea and abdomen pain, mounting *qi* [=hernia], leg *qi*, swelling toxin of welling abscess and sore, knife wound. Isolated compounds: 6908, 6958, 7267, 7268, 7269, 7270, 7271, 7275, 13523, 13524, 13525, 13526, 13527, 13528, 13529, 13530, 13531, 13532, 13533, 13534, 13535, 13536, 13537, 13538, 13539, 13540, 13541, 13542, 18494, 18495.

T5392 *Rabdosia excisa* (Lamiaceae); WEI YE XIANG CHA CAI; Taillikeleaf Rabdosia. Isolated compounds: 7674, 7675, 7676, 7677, 7678, 7679, 7680, 7681, 7682, 7683, 7684, 9362, 12123, 12125, 18472, 18485.

*Rabdosia inflexa* = *Isodon inflexa*

*Rabdosia japonica* = *Isodon japonica*

T5393 *Rabdosia longituba* (Lamiaceae); CHANG GUAN XIANG CHA CAI; Longtube Rabdosia. Used part: root, leaf or whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain. TCM Indications: Summerheat stroke with abdominal pain, urinary tract infection, mastitis, painful wound from knocks and falls, agkistrodon bite. Isolated compounds: 11511, 12123, 12957, 12958, 12959, 12960, 12961, 12962, 12963, 12970, 12971, 12972, 12973, 12974, 12975, 12976, 12977, 15988, 18466, 18467, 18468, 18469, 18477, 18925.

*Rabdosia lophanthoides* = *Isodon lophanthoides*

T5394 *Rabdosia macrophylla* (Lamiaceae); DA YE XIANG CHA CAI; Largeleaf Rabdosia. Isolated compounds: 11392, 18483.

T5395 *Rabdosia nervosa* (Lamiaceae); XIAN MAI XIANG CHA CAI; Veined Rabdosia. Used part: whole herb. TCM Effects: To disinhibit damp and harmonize stomach, resolve toxin and close sores. TCM Indications: Acute hepatitis, indigestion, pemphigus, eczema, itchy skin, burns and scalds, poisonous snake bites. Isolated compounds: 4873, 8146, 8147, 12537, 15507, 15508, 15509, 15510, 15848, 15988,

16183, 17717, 18480, 18481, 18482.

T5396 *Rabdosia rubescens* (Lamiaceae); DONG LING CAO; Blushred Rabdosia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain, anticancer. TCM Indications: Swelling pain in throat, common cold with headache, trachitis, chronic hepatitis, pain in joints due to rheumatism, snake or insect bites, carcinoma of mammary glands, carcinoma of esophagus. Isolated compounds: 3689, 4550, 4701, 4833, 6741, 8483, 9080, 9486, 12843, 13694, 15681, 16050, 16183, 17376, 17717, 18503, 18975, 18976, 18977, 19872, 20466, 20622, 20623, 22270, 22797, 22798, 22799, 22800, 22801, 22802, 22803, 22804, 22805, 22806, 22807, 22808.

*Rabdosia rugosa* = *Isodon rugosus*

*Rabdosia sculponeata* = *Isodon sculponeata*

T5397 *Rabdosia serra* (Lamiaceae); XI HUANG CAO; Serrate Rabdosia. Equivalent plant: *Isodon lophanthoides*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp and abate jaundice, dissipate stasis and disperse swelling. TCM Indications: Damp-heat jaundice, cholecystitis, diarrhea, dysentery, swelling of sores, painful wound from knocks and falls. Isolated compounds: 193, 18484, 18485, 18486.

T5398 *Rabdosia shikokiana* (Lamiaceae); SI GUO XIANG CHA CAI; Shiko Rabdosia\*. Isolated compounds: 7202, 18460, 18487, 18488, 18489, 19811, 19813, 19814, 19815, 19816, 19817, 19818.

T5399 *Rabdosia* spp. (Lamiaceae). Isolated compounds: 9650.

T5400 *Rabdosia stracheyi* (Lamiaceae); CHANG YE XIANG CHA CAI; Longleaf Rabdosia. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and dissipate stasis. TCM Indications: Acute icterohepatitis, acute cholecystitis, edema, summerheat stroke, stasis pain from knocks and falls, mammary sore. Isolated compounds: 256.

T5401 *Rabdosia yuennanensis* (Lamiaceae); BU YU HONG; Yunnan Rabdosia. Used part: rhizome or whole herb. TCM Effects: To dispel wind and disinhibit damp, quicken blood and free menstruation, resolve toxin and disperse swelling. TCM Indications: Common cold, wind-damp bone pain, hemiplegia, food accumulation, pain in stomach duct, dysentery, jaundice, dysmenorrhea, menstrual block, flooding and spotting [=metrorrhagia and metrostaxis], scrofula, syphilis, sores, measles papules, wind papules, scab and *lai*, knocks and falls, rabid dog bite, poisonous snake bites. Isolated compounds: 18510, 18511, 18512.

T5402 *Radermachera sinica* (Bignoniaceae); CAI DOU SHU; Asia Belltree. Used part: root, leaf or fruit. TCM Effects: To clear summerheat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Fever due to summerheat damage, swollen welling abscess, fracture, poisonous insect stings. Isolated compounds: 9973, 11455, 11616, 14871, 18522.

T5403 *Radula marginata* (Radulaceae); BIAN YUAN BIAN E TAI. Isolated compounds: 2348, 2349, 16985.

T5404 *Radula perrottetii* (Radulaceae); NING BIAN E TAI. Isolated compounds: 2404, 2405, 2408, 7057, 14033, 16980, 16981, 16982, 16983, 16984, 16986, 16987, 22531, 22532.

T5405 *Ramalina paludosa* (Usneaceae); ZHAO ZE SHU HUA; Marsh

- Ramalina\*. Isolated compounds: 16571.
- T5406 *Rana limnocharis* (Ranidae); XIA MA DAN; Rice Frog Gall. Used part: gall juice. TCM Effects: To disinhibit throat and restore voice. TCM Indications: Child aphonia. Isolated compounds: 2720.
- T5407 *Rana nigromaculata*; *Rana plancyi* (Ranidae); QING WA; Pond Frog. Used part: body. TCM Effects: To disinhibit water and disperse edema, clear heat and resolve toxin, supplement vacuity. TCM Indications: Edema, ascites, jaundice, toad head scourge, child heat sore, dysentery, *gan* disease, taxation fever, postpartum vacuity weakness. Isolated compounds: 626, 2393, 3205, 4221, 4222, 7814, 9853, 11784, 18529, 18530.
- T5408 *Rana nigromaculata*; *Rana plancyi* (Ranidae); QING WA DAN; Pond Frog Gall. Used part: gall. TCM Effects: To clear heat and resolve toxin. TCM Indications: Measles papules with complicated pneumonia, throat erosion. Isolated compounds: 4031, 4583.
- T5409 *Rana temporaria chensinensis*; *Rana amurensis* (Ranidae); HA SHI MA; Dried Chinese Woodfrog. Used part: dried body. TCM Effects: To supplement lung and boost kidney, disinhibit water and disperse edema. TCM Indications: Vacuity taxation cough, child *gan* accumulation, abdominal distention with edema, swelling toxin of sore and welling abscess. Isolated compounds: 626, 18544.
- T5410 *Randia formosa* (Rubiaceae); BA NA MA SHAN SHI LIU; Taiwan Malabar Randia. Isolated compounds: 10983, 10984, 18535, 18536, 18537, 18538, 18539, 18540, 18541.
- T5411 *Randia spinosa* (Rubiaceae); SHAN SHI LIU; Malabar Randia; Sping Randia. Used part: fruit and root, leaf. TCM Effects: To dispel stasis and disperse swelling, resolve toxin, stanch bleeding. TCM Indications: Stasis swelling from knocks and falls, bleeding due to external injury, skin scabies, toxin swelling. Isolated compounds: 18542.
- T5412 *Ranunculus acris* (Ranunculaceae); CAO DI MAO GEN; Meadow Buttercup. Isolated compounds: 7821.
- T5413 *Ranunculus cantoniensis* (Ranunculaceae); ZI KOU CAO; Canton Buttercup. Used part: whole herb. TCM Effects: To clear liver and brighten eyes, resolve toxin and eliminate damp, interrupt malaria. TCM Indications: Eye screen, red eyes, jaundice, swollen welling abscess, rheumatic arthritis, malaria. Isolated compounds: 1179.
- T5414 *Ranunculus japonicus* (Ranunculaceae); MAO GEN; Japanese Buttercup. Used part: whole herb and root. TCM Effects: To abate jaundice, settle asthma, interrupt malaria, settle pain, eliminate screen. TCM Indications: Malaria, jaundice, migraine, stomachache, pain in joints due to rheumatism, crane's knee wind, swollen welling abscess, malign sore, scab and lichen, toothache, fire eye. Isolated compounds: 1178, 1179.
- T5415 *Ranunculus sceleratus* (Ranunculaceae); SHI LONG RUI; Poisonous Buttercup. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling, relieve pain, interrupt malaria. TCM Indications: Swelling toxin of welling abscess and boil, scrofula, malaria, ulcerating sore of leg. Isolated compounds: 1178, 1179, 18545.
- T5416 *Rapanea neurophylla* (Myrsinaceae); CU YE MAI MI HUA SHU; Rough-veined Rapanea\*. Isolated compounds: 6767.
- T5417 *Rapanea* sp. (Myrsinaceae). Isolated compounds: 6767.
- T5418 *Rapanea umbellata* (Myrsinaceae); SAN HUA MI HUA SHU; Umbellate Rapanea\*. Isolated compounds: 6767.
- T5419 *Raphanus sativus* (Brassicaceae); LAI FU; Garden Radish. Used part: fresh root. TCM Effects: To disperse food, precipitate *qi*, transform phlegm, stanch bleeding, allay thirst, disinhibit urine. TCM Indications: Indigestion, food accumulation distention and fullness, hyperchlorhydria, vomiting, diarrhea, dysentery, constipation, phlegm-heat cough, hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, diabetes mellitus, strangury-turbidity, sores, stasis swelling due to injury, scalds, frostbite. Isolated compounds: 7768, 8307, 14581, 16778, 16779, 16780, 16782, 16783, 16784, 17134, 18278, 18548.
- T5420 *Raphanus sativus* (Brassicaceae); LAI FU ZI; Garden Radish Seed. Used part: seed. TCM Effects: To disperse food distention, downbear *qi* and transform phlegm. TCM Indications: Food stagnation, distending pain in stomach duct, constipation, accumulation and diarrhea, phlegm congestion cough asthma. Isolated compounds: 7291, 7768, 8589, 8752, 8811, 14581, 18547, 19909, 19917, 19918.
- T5421 *Raucheria* spp. Isolated compounds: 13098.
- T5422 *Rauvolfia bahiensis* (Apocynaceae); BA XI LUO FU MU; Brazilian Devilpepper\*. Isolated compounds: 5054, 13838, 14039, 14102.
- T5423 *Rauvolfia verticillata* (Apocynaceae); LUO FU MU; Common Devilpepper. Equivalent plant: *Rauvolfia verticillata* var. *hainanensis*, *Rauvolfia latifrons*, *Rauvolfia perakensis*, *Rauvolfia vomitoria*, *Rauvolfia verticillata* f. *rubrocarpa*. Used part: root. TCM Effects: To clear heat, lower blood pressure, quiet spirit. TCM Indications: Common cold with fever, headache and generalized pain, swelling pain in throat, hypertension, dizziness, insomnia, *gan* accumulation. Isolated compounds: 783, 784, 18552, 18633, 18634, 18859, 22368.
- T5424 *Rauvolfia verticillata* (Apocynaceae); LUO FU MU JING YE; Common Devilpepper Stem and Leaf. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling, lower blood pressure. TCM Indications: Swelling pain in throat, stasis swelling from knocks and falls, poisonous snake bite, hypertension. Isolated compounds: 1680, 18859.
- T5425 *Rauvolfia verticillata* f. *rubrocarpa* (Apocynaceae); HONG GUO LUO FU MU; Redfruit Devilpepper. Used part: root. TCM Effects: See *Rauvolfia verticillata*. TCM Indications: See *Rauvolfia verticillata*. Isolated compounds: 22427.
- T5426 *Rauvolfia verticillata* var. *hainanensis* (Apocynaceae); HAI NAN LUO FU MU; Hainan Devilpepper. Used part: root. TCM Effects: See *Rauvolfia verticillata*. TCM Indications: See *Rauvolfia verticillata*. Isolated compounds: 784, 6517, 13325, 22368, 22427.
- T5427 *Rauvolfia vomitoria* (Apocynaceae); CUI TU LUO FU MU; Emetic Devilpepper. Used part: root. TCM Effects: See *Rauvolfia verticillata*. TCM Indications: See *Rauvolfia verticillata*. Isolated compounds: 784, 1002, 1680, 5248, 6204, 16909, 18210, 18303, 18551, 18556, 18557, 18558, 18623, 18630, 18633, 18635, 19386, 19763, 21055, 22921.
- T5428 *Rauvolfia yunnanensis* (Apocynaceae); YUN NAN LUO FU MU; Yunnan Devilpepper. Used part: root. TCM Effects: To clear heat and calm liver, resolve toxin and kill worms. TCM Indications: Hypertension due to ascendant liver *yang*, headache, dizziness, vexation and agitation with insomnia, scab and lichen, snake bite. Isolated compounds: 783, 18059, 18633, 19763, 22921.

- T5429 *Rauwolfia beddomei* (Apocynaceae); BI SHI LUO FU MU; Beddome Devilpepper. Isolated compounds: 19762.
- T5430 *Rauwolfia caffra* (Apocynaceae); KA FU LA LUO FU MU; Caffra Devilpepper\*. Isolated compounds: 18635, 19386.
- T5431 *Rauwolfia canescens* (Apocynaceae); HUI BAI MAO LUO FU MU; Canescent Devilpepper\*. Isolated compounds: 5248.
- T5432 *Rauwolfia cubana* (Apocynaceae); GU BA LUO FU MU; Cuba Devilpepper. Isolated compounds: 5248.
- T5433 *Rauwolfia cumminsii* (Apocynaceae); KE MING XI LUO FU MU; Cummins Devilpepper\*. Isolated compounds: 18210, 18635, 19386.
- T5434 *Rauwolfia fruticosa* (Apocynaceae); GUAN MU LUO FU MU; Shrubby Devilpepper\*. Isolated compounds: 19762.
- T5435 *Rauwolfia latifrons* (Apocynaceae); KUO YE LUO FU MU; Broadleaf Devilpepper. Used part: root. TCM Effects: See *Rauwolfia verticillata*. TCM Indications: See *Rauwolfia verticillata*. Isolated compounds: 18633.
- T5436 *Rauwolfia littoralis* (Apocynaceae); HAI BIN LUO FU MU; Littoral Devilpepper\*. Isolated compounds: 5248.
- T5437 *Rauwolfia macrophylla* (Apocynaceae); DA YE LUO FU MU; Largeleaf Devilpepper\*. Isolated compounds: 18623, 18630, 18635.
- T5438 *Rauwolfia nitida* (Apocynaceae); GUANG LIANG LUO FU MU; Shining Devilpepper\*. Isolated compounds: 783, 18553, 18630, 18632, 22921.
- T5439 *Rauwolfia obscura* (Apocynaceae); GANG GUO LUO FU MU; Obscure Devilpepper\*. Isolated compounds: 1002, 18557.
- T5440 *Rauwolfia oreogiton* (Apocynaceae). Isolated compounds: 18303, 18635.
- T5441 *Rauwolfia perakensis* (Apocynaceae); PI LI LUO FU MU; Perak Devilpepper. Used part: root. TCM Effects: See *Rauwolfia verticillata*. TCM Indications: See *Rauwolfia verticillata*. Isolated compounds: 784, 16909, 18633, 19386.
- T5442 *Rauwolfia serpentina* (Apocynaceae); YIN DU LUO FU MU; Java Devilpepper. Used part: root, stem-leaf. TCM Effects: To lower blood pressure. TCM Indications: Hypertension. Isolated compounds: 783, 784, 4115, 5248, 11202, 16623, 18623, 18629, 18630, 18631, 18632, 18633, 18634, 19386, 19762, 22921.
- T5443 *Rauwolfia volkensii* (Apocynaceae). Isolated compounds: 18303, 18635.
- T5444 *Reboulia hemisphaerica* (Grimaldiaceae); SHI DI QIAN. Used part: thallus. TCM Effects: To clear heat and resolve toxin, disperse swelling and stanch bleeding. TCM Indications: Swelling toxin of sore and boil, burns and scalds, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 9634, 10156.
- T5445 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (Scrophulariaceae); GAN DI HUANG; Adhesive Rehmannia Dried Root. Used part: dried root. TCM Effects: To enrich *yin* and clear heat, cool blood and supplement blood, lower blood sugar levels. TCM Indications: Diabetes mellitus, dermatitis, rheumatism, diphtheria, acute tonsillitis, febrile diseases with vexation and thirst, steaming bone taxation fever, warm disease macular eruption, blood ejection due to blood heat, spontaneous external bleeding due to blood heat, flooding and spotting due to blood heat, hematuria due to blood heat, hematochezia due to blood heat, anemia with yellow complexion, palpitation and dizziness, blood depletion and amenorrhea. Isolated compounds: 305, 347, 580, 618, 815, 816, 1048, 1598, 2004, 3040, 3138, 3140, 3306, 3371, 3695, 3751, 3756, 4144, 4626, 4672, 4680, 5555, 5557, 6537, 6952, 7440, 7769, 7770, 7924, 8276, 8753, 8790, 9360, 9486, 9819, 11195, 11872, 11873, 11874, 11875, 11876, 11877, 11878, 11879, 11880, 11881, 11882, 11883, 11884, 11885, 11886, 12569, 12891, 13504, 13580, 13710, 14878, 15203, 15672, 15684, 16561, 16831, 17091, 18219, 18220, 18221, 18526, 18589, 18590, 18591, 18592, 18593, 18594, 18595, 18596, 18597, 18598, 18599, 18601, 18735, 19983, 20255, 20280, 20369, 20444, 22339, 22396, 22664.
- T5446 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (Scrophulariaceae); SHU DI HUANG; Adhesive Rehmannia Cocked Root. Used part: steamed and sundried root. TCM Effects: To supplement blood and enrich *yin*, boost essence and replenish marrow. TCM Indications: Blood vacuity with yellow complexion, dizziness and palpitation, menstrual disorder [=menoxenia], incessant flooding and spotting, liver-kidney *yin* depletion, tidal fever with night sweat, impotence and emission, sterility and infertility, limp aching lumbus and knees, tinnitus and deafness, dizzy head and vision, premature graying in beard and hair, diabetes mellitus, constipation, kidney vacuity hasty asthma. Isolated compounds: 3306, 9767, 10493, 18266, 18589, 18592, 18596, 18597, 18598, 18599, 18600, 22252.
- T5447 *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*] (Scrophulariaceae); XIAN DI HUANG; Adhesive Rehmannia Fresh Root. Used part: fresh root. TCM Effects: To clear heat and cool blood, engender liquid and moisten dryness, lower blood sugar levels. TCM Indications: Diabetes mellitus, dermatitis, rheumatism, diphtheria, acute tonsillitis, acute febrile diseases, ardent fever with clouded spirit, macula, fluid damage with vexation and thirst, blood ejection due to blood heat, spontaneous external bleeding due to blood heat, flooding and spotting due to blood heat, hematochezia due to blood heat, mouth and tongue sores, swelling pain in throat, taxation fever cough, painful wound from knocks and falls, swollen welling abscess. Isolated compounds: 618, 816, 3306, 13503, 18221, 18596, 18597, 18598, 18599.
- Rehmannia glutinosa* f. *huechingensis* = *Rehmannia glutinosa*
- T5448 *Rehmannia glutinosa* var. *purpurea* (Scrophulariaceae); ZI DI HUANG; Purple Adhesive Rehmannia\*. Isolated compounds: 18221.
- T5449 *Reineckea carnea* (Liliaceae); JI XIANG CAO; Pink Reineckea. Used part: whole herb with root. TCM Effects: To clear lung and relieve cough, cool blood and stanch bleeding, resolve toxin and disinhibit throat. TCM Indications: Lung heat cough, hemoptysis, blood ejection, spontaneous external bleeding, hematochezia, swelling pain in throat, red eyes and eye screen, swollen welling abscess, sore and boil. Isolated compounds: 11307, 11646, 11674, 12231, 16890, 18602.
- T5450 *Renealmia nicolaioides* (Zingiberaceae). Isolated compounds: 1418, 1420.
- T5451 *Renealmia cincinnata* (Zingiberaceae). Isolated compounds: 7503, 8335, 8336, 16154, 21750.
- T5452 *Reseda luteola* (Resedaceae); DAN HUANG MU XI CAO. TCM Effects: To effuse sweat, disinhibit urine. Isolated compounds: 13137, 13151.

- T5453 *Rhamnella inaequilatera* (Rhamnaceae); BU DUI CHENG MAO RU; Asymmetry *Rhamnella*\*. Isolated compounds: 18676, 18677, 18678.
- T5454 *Rhamnus cathartica* (Rhamnaceae); YAO SHU LI; Common Buckthorn. Used part: ripe fruit. TCM Effects: To moisten intestines and free stool. TCM Indications: Intestinal dry and constipation, habitual constipation. Isolated compounds: 7939, 7940.
- T5455 *Rhamnus crenata* (Rhamnaceae); LI LA GEN; Oriental Buckthorn. Used part: root or root cortex. TCM Effects: To clear heat and resolve toxin, kill worms and disinhibit damp. TCM Indications: Scab sore, intractable lichen, eczema, urticaria, tinea capitis, knocks and falls. Isolated compounds: 3598.
- T5456 *Rhamnus crenatus* (Rhamnaceae); HUANG YAO; Oriental Buckthorn. Isolated compounds: 4226.
- T5457 *Rhamnus davurica* (Rhamnaceae); SHU LI; Davurian Buckthorn. Used part: fruit. TCM Effects: To clear heat and resolve toxin, drain precipitation and kill worms, relieve cough and dispel phlegm. TCM Indications: Sore and welling abscess, scrofula, scab and lichen, decayed toothache, mouth sore, abdominal distention and constipation, cough of phlegm asthma, edema distention fullness. Isolated compounds: 967, 3615, 6776, 12020.
- T5458 *Rhamnus disperma* (Rhamnaceae); SHUANG ZHONG ZI SHU LI; Diseed Buckthorn\*. Isolated compounds: 18350.
- T5459 *Rhamnus formosana* (Rhamnaceae); TAI WAN SHU LI; Taiwan Buckthorn\*. Isolated compounds: 17252.
- T5460 *Rhamnus frangula* [Syn. *Frangula alnus*] (Rhamnaceae); OU SHU LI; Glossy Buckthorn. Used part: bark. TCM Effects: To moisten intestines and free stool. TCM Indications: Habitual constipation, abdominal pain. Isolated compounds: 968, 1738, 6776, 6778, 7938, 7939, 7940, 15489, 16558.
- T5461 *Rhamnus leptophylla* (Rhamnaceae); JIANG LI MU GEN; Thinleaf Buckthorn Root. Used part: root. TCM Effects: To disperse food and transform stagnation, move water and free stool. TCM Indications: Food accumulation abdominal distention, edema, ascites, constipation. Isolated compounds: 2556.
- T5462 *Rhamnus nakaharai* (Rhamnaceae); TAI ZHONG SHU LI; Taizhong Buckthorn\*. Isolated compounds: 18376, 18376.
- T5463 *Rhamnus purshiana* (Rhamnaceae); BO XI SHU LI; Cascara Buckthorn. Isolated compounds: 3254, 3598, 3615, 17251.
- T5464 *Rhamnus virgata* (Rhamnaceae); ZHOU ZHI SHU LI; Twiggy Buckthorn. Isolated compounds: 17250.
- T5465 *Rhaponticum carthamoides* (Asteraceae); LU CAO; Redflowered Swisscentaury\*. Used part: root. TCM Effects: To boost *qi* and fortify spleen, quiet spirit. TCM Indications: Fatigue hypodynamia, inappetence, neurasthenia. Isolated compounds: 811, 1476, 2779, 6402, 9260, 9678, 11660, 17662, 18369, 20357.
- T5466 *Rhaponticum uniflorum* (Asteraceae); LOU LU; Uniflower Swisscentaury. Equivalent plant: *Echinops grijssii*, *Echinops ritro*. Used part: root. TCM Effects: To clear heat and resolve toxin, quicken blood and promote milk. TCM Indications: Mammary welling abscess, effusion of back from welling abscess and flat abscess, scrofula, galactostasis, damp impediment and hypertonicity. Isolated compounds: 6679, 6681, 18750, 18751.
- T5467 *Rheedia gardneriana* (Clusiaceae). Isolated compounds: 18754.
- Rheum australe* = *Rheum emodi*
- T5468 *Rheum emodi* [Syn. *Rheum australe*] (Polygonaceae); ZANG BIAN DA HUANG; Austral Rhubarb. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, stanch bleeding and engender flesh. TCM Indications: Lung heat cough, swelling pain in throat, swelling toxin of welling abscess and sore, bleeding due to external injury, hematochezia. Isolated compounds: 401, 967, 1363, 3222, 3255, 3256, 3280, 3308, 3590, 3615, 3618, 3619, 6776, 6854, 8095, 9898, 9899, 13361, 17247, 17250, 17251, 18669, 18670, 18671, 18672, 18759, 20468, 21453.
- T5469 *Rheum hotaoense* (Polygonaceae); HE TAO DA HUANG; River-bend Rhubarb\*. Used part: root and rhizome. TCM Effects: To disperse accumulation and transform stagnation, free bowels and drain heat. TCM Indications: Food accumulation, distention fullness in stomach duct and abdomen, abdominal pain and diarrhea, heat bind constipation. Isolated compounds: 3616, 8095, 18767.
- T5470 *Rheum maximowiczii* (Polygonaceae); MA SHI DA HUANG; Maximowicz Rhubarb\*. Isolated compounds: 10610, 10611, 10612, 10613, 13616, 13617, 18265.
- T5471 *Rheum nanum* (Polygonaceae); AI DA HUANG; Low Rhubarb\*. Isolated compounds: 8879, 13361.
- T5472 *Rheum officinale* (Polygonaceae); DA HUANG; Medicinal Rhubarb. Equivalent plant: *Rheum palmatum*, *Rheum tanguticum*. Used part: root and rhizome. TCM Effects: To drain heat and free intestines, cool blood and resolve toxin, expel stasis and free menstruation. TCM Indications: Repletion heat constipation, accumulation with abdominal pain, damp-heat jaundice, acute icterohepatitis, red eyes, swollen throat, intestinal welling abscess and abdominal pain, bleeding of digestive tract, chronic diarrhea, indigestion, acute appendicitis, acute peritonitis, ileus, cholecystitis, gallstones, swollen welling abscess and clove sores, amenorrhea due to blood stasis, knocks and falls, burns and scalds. Isolated compounds: 423, 967, 970, 1363, 3172, 3173, 3279, 3315, 3615, 3619, 3620, 3703, 3706, 5514, 5518, 6776, 6778, 6854, 6864, 8095, 8096, 8097, 8108, 8109, 8110, 10217, 10534, 14219, 14220, 15132, 16556, 16557, 16558, 17099, 17247, 17250, 17251, 17877, 17896, 18650, 18744, 18748, 18756, 18757, 18758, 18759, 18761, 18766, 19746, 19748, 19749, 19750, 19751, 21453, 21454, 21642.
- T5473 *Rheum palaestinum* (Polygonaceae). Isolated compounds: 17283, 18744.
- T5474 *Rheum palmatum* (Polygonaceae); ZHANG YE DA HUANG; Sorrel Rhubarb. Used part: root and rhizome. TCM Effects: See *Rheum officinale*. TCM Indications: See *Rheum officinale*. Isolated compounds: 899, 967, 969, 970, 971, 3308, 3315, 3599, 3615, 3619, 3620, 3703, 3706, 5206, 5514, 5518, 6776, 6778, 6854, 6864, 8095, 8096, 8097, 8108, 8109, 16556, 16557, 16558, 17099, 17247, 17249, 17250, 17251, 17283, 17877, 17896, 18648, 18650, 18744, 18756, 18757, 18758, 18759, 18760, 18761, 18762, 18763, 18764, 18765, 18766, 19746, 19747, 19748, 19749, 19750, 19751, 19752, 21158, 21642, 21786, 21787, 21788.
- T5475 *Rheum qinlingense* (Polygonaceae); QIN LING DA HUANG; Qinling Rhubarb\*. Isolated compounds: 3621.
- T5476 *Rheum raponticum* (Polygonaceae); SHI YONG DA HUANG;

- Rhubarb. Isolated compounds: 16285.
- T5477 *Rheum* sp. (Polygonaceae); CHANG JI HUANG. Isolated compounds: 17869, 17876, 17877, 17879, 17881, 17882, 17883, 17885, 17887, 17890, 17891, 17894, 17895, 17896.
- T5478 *Rheum* sp. (Polygonaceae); YU DA HUANG. Isolated compounds: 1951, 17278, 17279, 17282, 18745, 18746, 18747, 18749, 21158.
- T5479 *Rheum* sp. (Polygonaceae); SI CHUAN CHAN DA HUANG. Isolated compounds: 17278, 17280, 17281, 18648, 18650.
- T5480 *Rheum* spp. (Polygonaceae). Isolated compounds: 3615, 17878.
- T5481 *Rheum tanguticum* (Polygonaceae); TANG GU TE DA HUANG; Tangut Rhubarb. Used part: root and rhizome. TCM Effects: See *Rheum officinale*. TCM Indications: See *Rheum officinale*. Isolated compounds: 967, 970, 971, 3308, 3315, 3615, 3619, 3620, 3703, 3706, 5514, 5518, 6776, 6778, 6854, 6864, 8095, 8096, 8097, 8108, 8109, 11496, 12876, 16556, 16557, 16558, 17247, 17250, 17251, 17283, 17877, 17896, 18648, 18650, 18756, 18757, 18758, 18759, 18761, 18762, 18763, 18764, 18765, 18766, 19746, 19748, 19749, 19751, 21158, 21642.
- T5482 *Rheum wittrockii* (Polygonaceae); TIAN SHAN DA HUANG; Tianshan Mountain Rhubarb. Isolated compounds: 3615, 3619, 5206, 6360, 6776, 17251, 17278, 18643.
- T5483 *Rhinacanthus nasutus* (Acanthaceae); BAI HE LING ZHI; Bignose Rhiancanthus. Used part: branch-leaf. TCM Effects: To clear heat and moisten lung, kill worms and relieve itch. TCM Indications: Taxation cough, scab and lichen, eczema. Isolated compounds: 18768, 18769, 18770, 18771, 18772, 18773, 18774, 18775, 18776, 18777, 18778.
- T5484 *Rhinoceros unicornis*; *Rhinoceros sondaicus*; *Rhinoceros sumatrensis* (Rhinocerotidae); XI JIAO; Rhinoceros Horn. Used part: horn. TCM Effects: To cool blood, clear heat, resolve toxin, settle fright. TCM Indications: Blood ejection, spontaneous external bleeding, acute febrile diseases, epidemic febrile diseases. Isolated compounds: 7390.
- T5485 *Rhizocarpon geographicum* (Lecideaceae); DI TU YI. Isolated compounds: 18779.
- T5486 *Rhizoma rhei*. Isolated compounds: 18650.
- T5487 *Rhizophora apiculata* (Rhizophoraceae); HONG SHU; Sharpleaf Mangrove. Isolated compounds: 3192.
- T5488 *Rhizophora mucronata* (Rhizophoraceae); HONG QIE DONG GUO; Mangrove Fruit. Isolated compounds: 2926, 2927, 15019.
- T5489 *Rhizophora stylosa* (Rhizophoraceae); HONG HAI LAN; Stylose Mangrove. Isolated compounds: 3192, 3193.
- T5490 *Rhizopus oryzae* DAO GEN MEI. Isolated compounds: 6133, 6134, 6135, 6136, 10728, 10729, 10730, 14158, 20295, 20297, 20298, 20299, 20300, 20301, 20302, 20303, 21153, 21846, 21847.
- T5491 *Rhodiola algida* (Crassulaceae); JI SHI HONG JING TIAN; Algid Rhodiola\*. Isolated compounds: 18792.
- T5492 *Rhodiola atuntsuensis* (Crassulaceae); DE QIN HONG JING TIAN; Atuntsuen Rhodiola. Isolated compounds: 18791.
- T5493 *Rhodiola coccinea* (Crassulaceae); SHEN HONG HONG JING TIAN; Darkred Rhodiola. Isolated compounds: 18792.
- T5494 *Rhodiola crenulata* [Syn. *Rhodiola euryphylla*] (Crassulaceae); DA HUA HONG JING TIAN; Bigflower Rhodiola. Used part: root. TCM Effects: To clear lung and boost *qi*. TCM Indications: Tuberculosis with cough, hemoptysis, pneumonia, bronchitis. Isolated compounds: 4227, 7441, 12083, 18792, 22170.
- Rhodiola euryphylla* = *Rhodiola crenulata*
- T5495 *Rhodiola himalansis* (Crassulaceae); XI MA HONG JING TIAN; Himalaya Rhodiola. Isolated compounds: 18792.
- T5496 *Rhodiola juparensis* (Crassulaceae); YUAN CONG HONG JING TIAN; Jupar Rhodiola. Isolated compounds: 18792.
- T5497 *Rhodiola kirilowii* (Crassulaceae); XIA YE HONG JING TIAN; Kirilow Rhodiola. Used part: rhizome and root. TCM Effects: To nourish heart and quiet spirit, quicken blood and transform stasis, stanch bleeding, clear heat and resolve toxin. TCM Indications: *Qi* vacuity and general weakness, shortness of breath and hypodynamia, palpitation and insomnia, dizziness, chest oppression and pain, knocks and falls, menstrual disorder, flooding and spotting, blood ejection, dysentery, diarrhea. Isolated compounds: 13003, 18792, 22170.
- T5498 *Rhodiola quadrifida* (Crassulaceae); SI LIE HONG JING TIAN; Foursplit Rhodiola. Used part: whole herb with root. TCM Effects: To boost kidney and nourish liver, regulate menstruation and quicken blood. TCM Indications: Steaming bone taxation fever, dry blood tisis (consumptive disease due to blood disorders), dizzy head and vision, menstrual disorder [=menoxenia]. Isolated compounds: 18792.
- T5499 *Rhodiola sacra* (Crassulaceae); SHENG DI HONG JING TIAN; Integripetal Rhodiola. Used part: whole herb. TCM Effects: To supplement *qi* and clear lung, boost wits and nourish heart, promote contraction and stanch bleeding, dissipate stasis and disperse swelling. TCM Indications: *Qi* vacuity and general weakness, aversion of cold during convalescence, shortness of breath and hypodynamia, lung heat cough, hemoptysis, leukorrhea, diarrhea, knocks and falls, burns and scalds, neurosis, altitude stress. Isolated compounds: 2887, 4680, 7441, 8095, 9467, 12020, 18790, 18792, 18793, 19109, 19377, 19983, 22170, 22195.
- T5500 *Rhodiola subopposita* (Crassulaceae); HU SHENG HONG JING TIAN; Oppositeleaf Rhodiola. Isolated compounds: 18792.
- T5501 *Rhodiola yunnanensis* (Crassulaceae); YUN NAN HONG JING TIAN; Yunnan Rhodiola. Used part: whole herb with root. TCM Effects: To supplement lung and boost kidney, clear heat and relieve cough, dissipate stasis and stanch bleeding. TCM Indications: Vacuity taxation with cough, kidney vacuity lumbar pain, pain in throat, painful swelling from knocks and falls, bleeding due to external injury. Isolated compounds: 18792.
- T5502 *Rhododendron anthopogonoides* (Ericaceae); XIAO YE PI PA; Savoury Rhododendron. Used part: leaf. TCM Effects: To dispel phlegm, relieve cough, calm asthma. TCM Indications: Cough, asthma, abundant phlegm. Isolated compounds: 2274, 8959, 10887, 11966, 12843.
- T5503 *Rhododendron arboreum* (Ericaceae); SHU XING DU JUAN; Treelike Rhododendron. Isolated compounds: 2334.
- T5504 *Rhododendron capitatum* (Ericaceae); TOU HUA DU JUAN; Capitata Rhododendron. Used part: leaf or flower. TCM Effects: To relieve cough and dispel phlegm, warm stomach and relieve pain. TCM Indications: Cough and asthma with abundant phlegm, stomach cold abdominal pain. Isolated compounds: 11966, 17376, 17809.
- T5505 *Rhododendron chrysanthum* (Ericaceae); NIU PI CHA; Goldmat Rhododendron. Isolated compounds: 18794.

- T5506 *Rhododendron cinnabarinum* (Ericaceae); ZHU SHA DU JUAN; Vermilion Rhododendron. Isolated compounds: 1074.
- T5507 *Rhododendron collettianum* (Ericaceae); A FU HAN DU JUAN HUA; H. Collett's Rhododendron. Isolated compounds: 3829, 3831, 6870, 8673, 21905.
- T5508 *Rhododendron dauricum* (Ericaceae); MAN SHAN HONG; Dahurian Rhododendron. Used part: leaf. TCM Effects: To relieve cough, dispel phlegm. TCM Indications: Acute bronchitis, chronic bronchitis. Isolated compounds: 1161, 2039, 2052, 2274, 3241, 3242, 3973, 4681, 4682, 4683, 4684, 5079, 5699, 7736, 8345, 8346, 8347, 8959, 9010, 9667, 9740, 10887, 10887, 11461, 12020, 16169, 18317, 18411, 18796, 19542, 19685, 20566, 21969.
- T5509 *Rhododendron fauriei* (Ericaceae); FU LEI SHI DU JUAN HUA; Pere L. F. Faurie's Rhododendron. Isolated compounds: 18794.
- T5510 *Rhododendron huianum* (Ericaceae); LIANG SHAN DU JUAN. Isolated compounds: 12020, 18317.
- T5511 *Rhododendron japonicum* (Ericaceae); RI BEN DU JUAN HUA; Japanese Azalea. Isolated compounds: 18799, 18800, 18801, 18802. *Rhododendron lamprophyllum* = *Rhododendron ovatum*
- T5512 *Rhododendron lingii* (Ericaceae); RU YUAN DU JUAN; Ruyuan Rhododendron. Isolated compounds: 18317.
- T5513 *Rhododendron mariae* (Ericaceae); LING NAN DU JUAN; Lingnan Rhododendron\*. Used part: Flower, leaf, twig or root. TCM Effects: To dispel phlegm and relieve cough, disperse swelling and relieve pain. TCM Indications: Cough of profuse phlegm, asthma, knocks and falls, mouth-lever nape sore (nuchal phlegmon). Isolated compounds: 18317, 18411.
- T5514 *Rhododendron metternichii* var. *hondoese* (Ericaceae); MEI TE NI DU JUAN HUA; Metternich Rhododendron\*. Isolated compounds: 1161.
- T5515 *Rhododendron micranthum* (Ericaceae); ZHAO SHAN BAI; Manchurian Rhododendron. Used part: branchlet-leaf or flower. TCM Effects: To relieve cough and transform phlegm, dispel wind and free network vessels, regulate menstruation and relieve pain. TCM Indications: Cough and asthma with abundant phlegm, wind-damp impediment pain, lumbago, menstrual disorder, dysmenorrhea, fracture. Isolated compounds: 1161, 1935, 8959, 10887, 12020, 18317, 19542, 20566.
- T5516 *Rhododendron molle* (Ericaceae); NAO YANG HUA; Chinese Azalea. Used part: flower. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and settle pain, kill worms. TCM Indications: Tachycardia, palpitation, hypertension, wind-damp impediment pain, knocks and falls, intractable lichen. Isolated compounds: 1161, 7662, 8759, 8995, 12117, 14068, 18800, 18801, 18803, 18806, 18807, 18808, 18809, 18810, 18811, 18812, 18813, 20132.
- T5517 *Rhododendron molle* (Ericaceae); NAO YANG HUA ZI; Chinese Azalea Fruit. Used part: fruit. TCM Effects: To dispel wind and dry damp, dissipate stasis and relieve pain, settle asthma, arrest diarrhea. TCM Indications: Wind-cold-damp impediment, joint running swelling pain, knocks and falls, asthma and cough, diarrhea and dysentery, swelling toxin of welling abscess and flat abscess. Isolated compounds: 18801, 18804, 18805.
- T5518 *Rhododendron mucronatum* (Ericaceae); BAI HUA YING SHAN HONG; Snow Azalea. Used part: flower, root and leaf. TCM Effects: To harmonize blood, dissipate stasis, relieve cough. TCM Indications: Blood ejection, hematochezia, dysentery, flooding and spotting, cough, knocks and falls. Isolated compounds: 2052, 2053, 5699, 8959, 15170, 18263, 18796, 20566.
- T5519 *Rhododendron mucronulatum* (Ericaceae); YING SHAN HONG; Korean Rhododendron. Used part: leaf. TCM Effects: To resolve exterior, relieve cough and transform phlegm. TCM Indications: Common cold, cough and asthma, abundant phlegm. Isolated compounds: 2052, 5699, 8959, 14542, 14609, 16884, 20566.
- T5520 *Rhododendron ovatum* [Syn. *Rhododendron lamprophyllum*; *Azalea ovata*] (Ericaceae); MA YIN HUA; Ovateleaf Rhododendron\*. Used part: root. TCM Effects: To clear damp heat, resolve sore toxin. TCM Indications: Damp-heat vaginal discharge, swollen welling abscess and clove sores. Isolated compounds: 22071.
- T5521 *Rhododendron przewalskii* (Ericaceae); LONG SHU DU JUAN; Przewalsk Rhododendron\*. Used part: leaf. TCM Effects: To clear lung, relieve cough and transform phlegm. TCM Indications: Cough and asthma, abundant and sticky phlegm. Isolated compounds: 1161.
- T5522 *Rhododendron seniavinii* (Ericaceae); MAO GUO DU JUAN; Hairfruit Rhododendron\*. Used part: root, stem-leaf and flower. TCM Effects: To relieve cough, dispel phlegm, calm asthma. TCM Indications: Chronic trachitis. Isolated compounds: 18317.
- T5523 *Rhododendron simsii* (Ericaceae); DU JUAN HUA; Indian Azalea. Used part: flower. TCM Effects: To harmonize blood, regulate menstruation, relieve cough, dispel wind-damp, resolve sore toxin. TCM Indications: Blood ejection, spontaneous external bleeding, flooding and spotting, menstrual disorder, cough, wind-damp impediment pain, sore toxin of welling abscess and boil. Isolated compounds: 1161, 3594, 4451, 13460, 13610, 13611, 14609, 16905.
- T5524 *Rhododendron simsii* (Ericaceae); DU JUAN HUA YE; Indian Azalea Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, stanch bleeding. TCM Indications: Swollen welling abscess and clove sores, bleeding due to external injury, urticaria. Isolated compounds: 1161, 1512, 6177, 13610.
- T5525 *Rhododendron* sp. (Ericaceae). Isolated compounds: 17170.
- T5526 *Rhododendron* spp. (Ericaceae). Isolated compounds: 16900.
- T5527 *Rhodomyrtus macrocarpa* (Myrtaceae); DA GUO TAO JIN NIANG; Bigfruit Rosemyrtle\*. Isolated compounds: 18814.
- T5528 *Rhodomyrtus tomentosa* (Myrtaceae); SHAN REN YE; Downy Rosemyrtle Leaf. Used part: leaf. TCM Effects: To disinhibit damp and check diarrhea, engender flesh and stanch bleeding. TCM Indications: Headache, diarrhea, *gan* accumulation, bleeding due to external injury, scab sore. Isolated compounds: 1109, 1113, 2332, 2338, 13098.
- T5529 *Rhodomyrtus tomentosa* (Myrtaceae); TAO JIN NIANG; Rosemyrtle. Used part: fruit. TCM Effects: To nourish blood and stanch bleeding, astringe intestines and secure essence. TCM Indications: Blood vacuity and general weakness, blood ejection, nosebleed(epistaxis), taxation damage hemoptysis, hematochezia, flooding and spotting, emission, vaginal discharge, dysentery, prolapse of rectum, scalds, bleeding due to external injury. Isolated compounds: 3296, 3302, 16765, 21443.
- T5530 *Rhus chinensis* [Syn. *Rhus semialata*] (Anacardiaceae); YAN FU YE;

- Chinese Sumac Leaf. Used part: fresh leaf. TCM Effects: To relieve cough and transform phlegm, promote contraction and resolve toxin. TCM Indications: Phlegm cough, hematochezia, blood dysentery, night sweating, sore. Isolated compounds: 14454.
- T5531 *Rhus chinensis* [Syn. *Rhus semialata*] (Anacardiaceae); YAN FU ZI; Chinese Sumac Fruit. Used part: fruit. TCM Effects: To moisten lung and engender liquid, downbear fire and transform phlegm, constrain sweat, check dysentery. TCM Indications: Phlegm cough, throat impediment, jaundice, night sweating, dysentery, intractable lichen, welling abscess, head wind white scaling. Isolated compounds: 5515, 8095, 14454.
- T5532 *Rhus coriaria* (Anacardiaceae); XI XI LI QI SHU; Sumach. Isolated compounds: 7441, 8095.
- T5533 *Rhus lanceolata* (Anacardiaceae); PI ZHEN QI SHU; Lanceolate Sumac\*. Isolated compounds: 19545.
- T5534 *Rhus pyroides* (Anacardiaceae). Isolated compounds: 18820.
- T5535 *Rhus retinorrhoea* (Anacardiaceae); SHU ZHI YAN FU MU; Resinoid Sumac\*. Isolated compounds: 6409, 19174.  
*Rhus semialata* = *Rhus chinensis*
- T5536 *Rhus* sp. (Anacardiaceae). Isolated compounds: 5613, 16836, 18864.  
*Rhus succedanea* = *Toxicodendron succedaneum*
- T5537 *Rhus sylvestris* (Anacardiaceae); YE QI SHU YE; Woods Leaquertree Leaf. Used part: leaf. TCM Effects: To dispel stasis and disperse swelling, kill worms, resolve toxin. TCM Indications: Knocks and falls, bleeding due to external injury, ancylostomiasis, scab and lichen, sore toxin, poisonous snake bite. Isolated compounds: 1497, 5613, 5614, 7802.
- T5538 *Rhus sylvestris* (Anacardiaceae); YE QI SHU ZI; Woods Leaquertree. Isolated compounds: 18821, 18822.
- T5539 *Rhus taishanensis* (Anacardiaceae); TAI SHAN YAN FU ZI; Taishan Sumac Fruit. Isolated compounds: 18823.
- T5540 *Rhus typhina* (Anacardiaceae); LU JIAO QI SHU; Stag's-horn Sumach. Isolated compounds: 917, 8095.
- T5541 *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*] (Anacardiaceae); QI ZI; True Lacquer Seed. Used part: seed. TCM Effects: To quicken blood and stanch bleeding, warm channels and relieve pain. TCM Indications: Hematochezia, hematuria, flooding and spotting, abdominal pain due to stagnation, amenorrhea. Isolated compounds: 2779, 5613, 6535, 6719, 20481.
- T5542 *Rhus verniciflua* [Syn. *Toxicodendron verniciflum*] (Anacardiaceae); SHENG QI; True Lacquer. Used part: balsam. TCM Effects: To kill worms. TCM Indications: Worm accumulation, water *gu*. Isolated compounds: 12424, 12425, 12426, 12427.
- T5543 *Rhynchochotum vestitum* (Gesneriaceae); MAO XIAN ZHU JU TAI; Hairy Rhynchochotum. Used part: whole herb. TCM Indications: Hepatitis A, Hepatitis B. Isolated compounds: 15077, 18828.
- T5544 *Ribes alpinum* (Saxifragaceae); GAO SHAN CHA BIAO; Alpine Currant. Isolated compounds: 13627, 15183, 18375.
- T5545 *Ribes fasciculatum* var. *chinense* (Saxifragaceae); HUA CHA BIAO; China Winterberry Currant. Used part: root. TCM Effects: To cool blood and clear heat, regulate menstruation. TCM Indications: Vacuity heat and hypodynamia, menstrual disorder [=menoxenia], dysmenorrhea. Isolated compounds: 2778, 3308, 4184, 5981, 8098, 10637, 13100, 14530, 15954, 19377.
- T5546 *Ribes nigrum* (Saxifragaceae); HEI CHA BIAO; Black Currant. Isolated compounds: 15593, 15594.
- T5547 *Ricinus communis* (Euphorbiaceae); BI MA GEN; Castorbean Root. Used part: root. TCM Effects: To dispel wind and resolve tetany, quicken blood and disperse swelling. TCM Indications: Tetanus, epilepsy, wind-damp impediment pain, knocks and falls, swollen welling abscess and scrofula, prolapse of rectum, prolapse of uterus. Isolated compounds: 4947, 21622.
- T5548 *Ricinus communis* (Euphorbiaceae); BI MA YE; Castorbean Leaf. Used part: leaf. TCM Effects: To draw out pus and relieve itch, relieve cough and calm asthma. TCM Indications: Beriberi, swelling pain of scrotum, cough of phlegm asthma, goose-foot wind, sore and boil. Isolated compounds: 15525, 18407, 18840.
- T5549 *Ricinus communis* (Euphorbiaceae); BI MA YOU; Castorbean Oil. Used part: oil expressed from seeds. TCM Effects: To lubricate intestines, moisten skin. TCM Indications: Dry stool, sore and scab, burns. Isolated compounds: 14932, 18841, 22028.
- T5550 *Ricinus communis* (Euphorbiaceae); BI MA ZI; Castorbean Seed. Used part: ripe seed. TCM Effects: To disperse swelling and draw out toxin, drain precipitation and free stagnation. TCM Indications: Swelling toxin of welling abscess and flat abscess, throat impediment, scrofula, dry stool. Isolated compounds: 4055, 4124, 6132, 6194, 18840, 18841, 19596, 20439.
- T5551 *River corymbosa* (Convolvulaceae); MO XI GE XUAN HUA; Mexico Glorybind\*. Isolated compounds: 7240.
- T5552 *Robinia pseudoacacia* (Fabaceae); CI HUAI HUA; Black Locust Flower. Used part: flower. TCM Effects: To stanch bleeding. TCM Indications: Precipitate blood of large intestine, hemoptysis, flooding. Isolated compounds: 56, 61, 1482, 2779, 2785, 3059, 5702, 9522, 11504, 12908, 14712, 16843, 17470, 18642, 18857, 22122.
- T5553 *Robinia pseudomonas* (Fabaceae); JIA DAN BAO JUN YANG HUAI; Pseudomonas Locust\*. Isolated compounds: 18859.
- T5554 *Rodgersia aesculifolia* (Saxifragaceae); MU HE; Fingerleaf Rodgersflower. Used part: rhizome. TCM Effects: To clear heat and transform damp, engender flesh and stanch bleeding. TCM Indications: Damp-heat dysentery, chronic diarrhea, white turbidity, vaginal discharge, flooding and spotting, blood ejection, spontaneous external bleeding, hematochezia, sore toxin, incised wound. Isolated compounds: 2312, 16884.
- T5555 *Rodgersia pinnata* (Saxifragaceae); YU YE GUI DENG QING; Featherleaf Rodgersflower. Used part: rhizome. TCM Effects: To quicken blood and regulate menstruation, dispel wind and eliminate damp, promote contraction and stanch bleeding. TCM Indications: Knocks and falls, fracture, menstrual disorder [=menoxenia], dysmenorrhea, wind-damp pain, bleeding due to external injury, enteritis, dysentery. Isolated compounds: 6403.
- T5556 *Rodgersia podophylla* (Saxifragaceae); RI BEN GUI DENG QING; Bronzeleaf Rodgersflower. Isolated compounds: 2039, 11897, 12021, 12022, 12082, 14034, 14035, 14688, 14689, 14695, 14696, 15184, 18319, 18320, 18337, 18411.
- T5557 *Rohdea japonica* [Syn. *Orontium japonicum*] (Liliaceae); WAN NIAN QING GEN; Omoto Nipponlily Root. Used part: root, rhizome and

- leaf. TCM Effects: To clear heat and resolve toxin, strengthen heart and disinhibit urine, cool blood and stanch bleeding. TCM Indications: Cardiac failure, swelling pain in throat, diphtheria, edema, ascites, hemoptysis, blood ejection, clove sore, erysipelas, snake bite, scalds, arrhythmia, dysentery. Isolated compounds: 2401, 4006, 4007, 7005, 7006, 11675, 11676, 18782, 18783, 18785, 18786, 18787, 18788, 18789, 20220.
- T5558 *Rollinia mucosa* (Annonaceae); NIAN ZHI LUO LIN; Mucosa Rollinia\*. Isolated compounds: 13987, 16414, 18897, 18900, 18901, 18902, 18903, 18904, 18905, 18906.
- T5559 *Romalea microptera* HUANG CHONG; Grasshopper. Isolated compounds: 18426.  
*Rorippa dubia* = *Rorippa montana*
- T5560 *Rorippa montana* [Syn. *Rorippa dubia*; *Sisymbrium dubium*] (Brassicaceae); HAN CAI; Indian Rorippa. Used part: whole herb. TCM Effects: To dispel phlegm and suppress cough, dissipate cold and resolve exterior, quicken blood and resolve toxin, disinhibit damp and abate jaundice. TCM Indications: Cough, cough of phlegm asthma, common cold with fever, non-eruption of measles, wind-damp impediment pain, swelling pain in throat, swollen welling abscess and clove sores, lacquer sore, amenorrhea, knocks and falls, jaundice, edema. Isolated compounds: 18908, 18909.
- T5561 *Rosa canina* (Rosaceae); QUAN CHI QIANG WEI; Dog Rose. Isolated compounds: 5763, 6428, 13212, 19039.
- T5562 *Rosa chinensis* (Rosaceae); YUE JI HUA; Chinese Rose. Used part: flower. TCM Effects: To quicken blood and regulate menstruation, resolve toxin and disperse swelling. TCM Indications: Menstrual disorder, dysmenorrhea, knocks and falls, blood stasis swelling and pain, scrofula, swollen welling abscess, scalds. Isolated compounds: 8095.
- T5563 *Rosa cymosa* (Rosaceae); XIAO GUO QIANG WEI GEN; Smallfruit Rose. Used part: root. TCM Effects: To dissipate stasis, stanch bleeding, disperse swelling, resolve toxin. TCM Indications: Bleeding due to external injury, knocks and falls, menstrual disorder [=menoxenia], prolapse of uterus, hemorrhoids, wind-damp pain, diarrhea, dysentery. Isolated compounds: 9385, 18894, 18895, 19057.
- T5564 *Rosa damascena* (Rosaceae); DA MA SHI GE QIANG WEI; Damask Rose. Isolated compounds: 8312.
- T5565 *Rosa gallica* (Rosaceae); FA GUO QIANG WEI; French Rose. Isolated compounds: 8312.
- T5566 *Rosa henryi* (Rosaceae); RUAN TIAO QI QIANG WEI; Henry's Rose. Used part: root. TCM Effects: To quicken blood and regulate menstruation, transform stasis and stanch bleeding. TCM Indications: Menstrual disorder [=menoxenia], infertility, bleeding due to external injury. Isolated compounds: 17884.
- T5567 *Rosa laevigata* (Rosaceae); JIN YING YE; Cherokee Rose Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding, check discharge. TCM Indications: swollen welling abscess and clove sores, scalds, dysentery, amenorrhea, flooding and spotting, vaginal discharge, bleeding from wounds. Isolated compounds: 17750.
- T5568 *Rosa laevigata* (Rosaceae); JIN YING ZI; Cherokee Rose Seed. Used part: fruit. TCM Effects: To secure essence and reduce urine, astringe intestines and check diarrhea. TCM Indications: Emission, enuresis and frequent urination, flooding and spotting with vaginal discharge, chronic diarrhea and dysentery. Isolated compounds: 757, 758, 7657, 14440, 14512, 14523, 14591, 14765, 16422, 17750, 17884, 18916, 19276, 21458.
- T5569 *Rosa multiflora* (Rosaceae); QIANG WEI GEN; Japanese Rose Root. Used part: root. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp, quicken blood and regulate menstruation, secure essence and reduce urine. TCM Indications: Swelling toxin of sore and welling abscess, scalds, mouth sore, bleeding from hemorrhoids, nosebleed(epistaxis), pain in joints, menstrual disorder, dysmenorrhea, chronic dysentery, enuresis, frequent urination, excessive leukorrhea, prolapse of uterus, bone stuck in throat. Isolated compounds: 6178, 14454, 15068, 15069.
- T5570 *Rosa roxburghii* (Rosaceae); CI LI; Roxburgh Rose. Used part: fruit. TCM Effects: To fortify stomach, disperse food, check diarrhea. TCM Indications: Food accumulation distention and fullness, enteritis and diarrhea. Isolated compounds: 18970, 20257.
- T5571 *Rosa rubiginosa* (Rosaceae); XIU HONG QIANG WEI; Sweet-briar. Isolated compounds: 19039.
- T5572 *Rosa rugosa* (Rosaceae); MEI GUI HUA; Rugose Rose Flower. Used part: bud. TCM Effects: To move *qi* and relieve depression, harmonize blood, relieve pain. TCM Indications: Liver stomach *qi* pain, reduced food intake with nausea and vomiting, menstrual disorder, painful wound from knocks and falls. Isolated compounds: 1735, 2284, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 3768, 4451, 7521, 8095, 8312, 8313, 9203, 9485, 9909, 9910, 9911, 10173, 10245, 11218, 11367, 11368, 11369, 11370, 11642, 12852, 13744, 15498, 15926, 17111, 18421, 18912, 18913, 19039, 19047, 19048, 19050, 19051, 19052, 19053, 19054, 19055, 19056, 19057, 19058, 19059, 19060, 19277, 19607, 20389, 21612.
- T5573 *Rosa sericea* (Rosaceae); JUAN MAO QIANG WEI; Silky Rose. Used part: root and fruit. TCM Effects: To fortify and move spleen, check dysentery and promote astriction. TCM Indications: Accumulation with abdominal distention, diarrhea, enduring dysentery, profuse menstruation, flooding and spotting [=metrorrhagia and metrostaxis]. Isolated compounds: 7657, 7658, 8682.
- T5574 *Rosa* sp. (Rosaceae). Isolated compounds: 1358, 3209, 7518, 7821, 16836, 18265, 20910.
- T5575 *Rosmarinus officinalis* (Lamiaceae); MI DIE XIANG; Rosemary. Used part: whole herb. TCM Effects: To effuse sweat, fortify spleen, quiet spirit, relieve pain. TCM Indications: Headache, prevention of hair loss in early stage. Isolated compounds: 1110, 1113, 2331, 2550, 2557, 3206, 6454, 6825, 7556, 8289, 10024, 10172, 10550, 11684, 12420, 13146, 17696, 18921, 18922, 18923, 18924, 20993, 20994, 20995, 22398.
- T5576 *Rostellularia procumbens* [Syn. *Justicia procumbens*] (Acanthaceae); JUE CHUANG; Creeping Rostellularia. Used part: dried whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp and disperse stagnation, quicken blood and relieve pain. TCM Indications: Common cold with fever, cough, swelling pain in throat, red eyes with gall, *gan* accumulation, damp-heat diarrhea dysentery, malaria, jaundice, edema, pain in sinews and bones, knocks and falls, welling



- abscess and flat abscess with clove sore, eczema. Isolated compounds: 3638, 6490, 11977, 11978, 11979, 11980, 17872, 17955, 20645, 22077.
- T5577 *Rouya polygama* (Apiaceae). Isolated compounds: 18962, 18963, 18964, 18965, 18966, 18967.
- T5578 *Rubia cordifolia* (Rubiaceae); QIAN CAO GEN; Indian Madder Root. Equivalent plant: *Rubia schumannina*, *Rubia tinctorum*, *Rubia oncotricha*, *Rubia wallichiana*. Used part: root. TCM Effects: To cool blood and stanch bleeding, quicken blood and transform stasis. TCM Indications: Bleeding due to blood heat, amenorrhea due to blood stasis, knocks and falls, impediment pain in joints. Isolated compounds: 266, 899, 901, 3181, 5522, 9891, 9892, 10502, 13939, 13940, 13954, 13998, 14040, 14144, 14775, 14777, 14778, 14779, 14901, 15076, 15734, 16065, 18058, 18222, 18224, 18979, 18980, 18981, 18982, 18983, 18984, 18985, 18986, 18987, 18988, 18989, 18990, 18991, 18992, 18993, 18994, 19013, 19023, 19031, 19036, 19037, 19038, 21794, 21795, 22773.
- T5579 *Rubia cordifolia* (Rubiaceae); QIAN CAO TENG; Indian Madder Stem. Used part: aerial parts. TCM Effects: To stanch bleeding, move stasis. TCM Indications: Blood ejection, flooding, knocks and falls, wind impediment, lumbago, welling abscess toxin, swelling of clove. Isolated compounds: 19028, 19029.
- T5580 *Rubia cordifolia* var. *pratensis* (Rubiaceae); HEI GUO QIAN CAO; Blackfruit Madder. Isolated compounds: 19037, 19038.
- T5581 *Rubia iberica* (Rubiaceae). Isolated compounds: 15734.
- T5582 *Rubia oncotricha* (Rubiaceae); GOU MAO QIAN CAO; Hookedhair Madder. Used part: root. TCM Effects: See *Rubia cordifolia*. TCM Indications: See *Rubia cordifolia*. Isolated compounds: 11234, 19036.
- T5583 *Rubia schumannina* (Rubiaceae); DA YE QIAN CAO; Smoothstalk Madder. Used part: root. TCM Effects: See *Rubia cordifolia*. TCM Indications: See *Rubia cordifolia*. Isolated compounds: 14901.
- T5584 *Rubia tinctorum* (Rubiaceae); YANG QIAN CAO; Madder. Used part: root. TCM Effects: See *Rubia cordifolia*. TCM Indications: See *Rubia cordifolia*. Isolated compounds: 899, 901, 13041, 18222.
- T5585 *Rubia wallichiana* (Rubiaceae); GUANG JING QIAN CAO; Wallich Madder. Used part: root. TCM Effects: See *Rubia cordifolia*. TCM Indications: See *Rubia cordifolia*. Isolated compounds: 900, 901, 1360, 5522, 5990, 6017, 6537, 10206, 10380, 10414, 10415, 10417, 10467, 13041, 13045, 13640, 14775, 14776, 14778, 15077, 15734, 18222, 18224, 18998, 19000, 19024, 19025, 19026, 19540, 19542, 19983, 20369, 22270.
- T5586 *Rubia yunnanensis* (Rubiaceae); XIAO HONG SHEN; Yunnan Madder. Used part: root. TCM Effects: To quicken blood and soothe the sinews, dispel stasis and engender flesh, nourish *qi* blood. TCM Indications: Wind-damp pain, knocks and falls, menstrual disorder [=menoxenia], menstrual block, vaginal discharge, postpartum arthralgia, tuberculosis and coughing of blood, dizzy head and insomnia, anemia. Isolated compounds: 303, 371, 496, 11477, 12520, 13986, 14775, 14777, 18983, 18990, 18995, 18996, 18997, 19001, 19002, 19003, 19004, 19005, 19006, 19007, 19008, 19009, 19010, 19011, 19012, 19014, 19015, 19016, 19017, 19018, 19019, 19020, 19021, 19022, 19032, 19033, 19034, 19035, 19618, 19983, 20369, 20566, 22332.
- T5587 *Rubus alceaefolius* (Rosaceae); CU YE XUAN GOU ZI; Roughleaf Raspberry. Used part: root and leaf. TCM Effects: To clear heat and disinhibit damp, stanch bleeding, dispel stasis. TCM Indications: Hepatitis, dysentery, enteritis, mastitis, stomatitis, march hemoglobinuria, bleeding due to external injury, liver spleen enlargement, knocks and falls, wind-damp bone pain. Isolated compounds: 4088, 6178, 15539.
- T5588 *Rubus allegheniensis* (Rosaceae); PU TONG XUAN GOU ZI; Common Raspberry\*. Isolated compounds: 19045.
- T5589 *Rubus chamaemorus* (Rosaceae); XUAN GOU ZI; Avrons. Isolated compounds: 19039.
- T5590 *Rubus chroosepalus* (Rosaceae); MAO E MEI; Hairysidal Raspberry. Isolated compounds: 6170.
- T5591 *Rubus cochinchinensis* (Rosaceae); SHE PAO JIN; Snakebubble Raspberry. Used part: root. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain. TCM Indications: Wind-damp impediment pain, painful wound from knocks and falls, pain in lumbus and leg. Isolated compounds: 516.
- T5592 *Rubus hirsutus* (Rosaceae); CI BO; Hirsute Raspberry. Used part: root or leaf. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, stanch bleeding. TCM Indications: Influenza, common cold, infant ardent fever convulsion, swelling pain in throat, toothache, headache, wind-damp pain in sinew and bone, scrofula, swollen boil. Isolated compounds: 21634.
- T5593 *Rubus idaeus* (Rosaceae); FU PEN ZI; Red-and-Yellow Garden Raspberry. Used part: fruit. TCM Effects: To supplement liver and boost kidney, secure essence and reduce urine, brighten eyes. TCM Indications: Impotence with premature ejaculation, emission, infertility due to uterus cold, frequent urination and enuresis, dizziness and dim vision, premature graying in beard and hair. Isolated compounds: 3594, 17886.
- T5594 *Rubus parkeri* (Rosaceae); WU PAO ZI; Parker Raspberry. Used part: root. TCM Effects: To regulate menstruation, stanch bleeding, dispel phlegm, relieve cough. TCM Indications: Menstrual disorder, menstrual block, concretion and conglomeration, flooding, spontaneous external bleeding, hematochezia, cough and abundant phlegm, sores. Isolated compounds: 21824.
- T5595 *Rubus parviflorus* (Rosaceae); MAO MEI; Japanese Raspberry. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain, kill worms. TCM Indications: Common cold with fever, cough with phlegm and blood, dysentery, knocks and falls, postpartum abdominal pain, scab sore, swollen boil, bleeding due to external injury. Isolated compounds: 15539.
- T5596 *Rubus rigidus* (Rosaceae); JIAN YING XUAN GOU ZI; Rigid Blackberry\*. Isolated compounds: 18265.
- T5597 *Rubus sanctus* (Rosaceae); SHEN SHENG XUAN GOU ZI; Sanctity Blackberry\*. Isolated compounds: 2930, 5409, 9503.
- T5598 *Rubus* sp. (Rosaceae). Isolated compounds: 3301.
- T5599 *Rubus* spp. (Rosaceae). Isolated compounds: 16765, 17750.
- T5600 *Rubus suavissimus* (Rosaceae); TIAN CHA; Sweet Blackberry\*. Isolated compounds: 20341, 20433.
- T5601 *Rubus taiwanicus* (Rosaceae); XIAO YE XUAN GOU ZI; Small-leaf Raspberry. Isolated compounds: 15539, 15540, 15541.

- T5602 *Rubus ulmifolius* (Rosaceae); YU YE MAO MEI; Elm-leaf Raspberry\*. Isolated compounds: 18972, 18973, 18974.
- T5603 *Rudbeckia bicolor* (Asteraceae); SHUANG SE JIN GUANG JU; Pinewoods Coneflower. Isolated compounds: 20665.
- T5604 *Rudbeckia laciniata* (Asteraceae); JIN GUANG JU; Cutleaf Coneflower. Used part: leaf. TCM Effects: To clear damp heat, resolve toxin and eliminate welling abscess. TCM Indications: Damp-heat vomiting diarrhea, abdominal pain, swollen welling abscess and sore toxin. Isolated compounds: 19046.
- T5605 *Rumex acetosa* (Polygonaceae); SUAN MO; Garden Sorrel. Used part: root. TCM Effects: To cool blood and stanch bleeding, drain heat and free stool, disinhibit urine, kill worms. TCM Indications: Blood ejection, hematochezia, profuse menstruation, heat dysentery, red eyes, constipation, urinary stoppage, strangury-turbidity, malign sore, scab and lichen, eczema. Isolated compounds: 3615, 3620, 6776, 15489, 17247, 17248, 22520.
- T5606 *Rumex acetosa* (Polygonaceae); SUAN MO YE; Garden Sorrel Leaf. Used part: leaf. TCM Effects: To drain heat, relieve constipation, disinhibit urine, cool liver and stanch bleeding, resolve toxin. TCM Indications: Swelling pain in throat, gum hemorrhage, spleen vacuity diarrhea, painful wound from knocks and falls, hemorrhoids. Isolated compounds: 22520.
- T5607 *Rumex crispus* (Polygonaceae); NIU ER DA HUANG; Crisped Dock. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, free stool and kill worms. TCM Indications: Acute hepatitis, chronic hepatitis, enteritis, dysentery, chronic trachitis, blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting, heat bind constipation, swelling toxin of welling abscess and flat abscess, scab and lichen, bald sores. Isolated compounds: 3598, 3620, 6776.
- T5608 *Rumex dentatus* (Polygonaceae); NIU SHE CAO; Toothedfruit Dock. Used part: leaf. TCM Effects: To clear heat and resolve toxin, kill worms and relieve itch. TCM Indications: Red swollen breast. Isolated compounds: 967, 3615, 6776, 15489, 17247.
- T5609 *Rumex hastatus* (Polygonaceae); JI YE SUAN MO; Hastate Dock\*. Used part: root or whole herb. TCM Effects: To effuse sweat and resolve exterior, dispel wind and eliminate damp, relieve cough, stanch bleeding. TCM Indications: Common cold, headache, pain in joints due to rheumatism, cough and asthma, knocks and falls, flooding and spotting. Isolated compounds: 12714.
- T5610 *Rumex hymenosepalus* (Polygonaceae); MO E SUAN MO; Canaigre. Isolated compounds: 12714.
- T5611 *Rumex japonicus* (Polygonaceae); YANG TI; Japanese Dock. Equivalent plant: *Rumex nepalensis*. Used part: root. TCM Effects: To clear heat and free stool, cool blood and stanch bleeding, kill worms and relieve itch. TCM Indications: Constipation, blood ejection, spontaneous external bleeding, intestinal wind bleeding, bleeding from hemorrhoids, flooding and spotting, scab and lichen, bald white scalp sore, swelling toxin of welling abscess and sore, knocks and falls. Isolated compounds: 3615, 6776, 7209, 15153, 15489, 17247, 21817.
- T5612 *Rumex nepalensis* (Polygonaceae); NI BO ER YANG TI; Nepal Dock. Used part: root. TCM Effects: See *Rumex japonicus*. TCM Indications: See *Rumex japonicus*. Isolated compounds: 3615, 6776, 15489, 17247.
- T5613 *Rumex obtusifolius* (Polygonaceae); DUN YE SUAN MO; Bluntleaf Dock. Used part: root. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, dispel stasis and disperse swelling, free stool, kill worms. TCM Indications: Tuberculosis and hemoptysis, pulmonary welling abscess, blood ejection, abdominal pain due to stagnation, knocks and falls, constipation, epidemic parotitis, swelling toxin of welling abscess and sore, scalds, scab and lichen, eczema. Isolated compounds: 13447, 15489.
- T5614 *Rumex patientia* (Polygonaceae); NIU XI XI; Patience Dock. Used part: root. TCM Effects: To clear heat and resolve toxin, stanch bleeding and disperse swelling, free stool and kill worms. TCM Indications: Blood ejection, spontaneous external bleeding, hematochezia, flooding and spotting, red and white vaginal discharge, purpura, dysentery, hepatitis, constipation, inhibited urination, swelling toxin of welling abscess and sore, scab and lichen, knocks and falls, burns and scalds. Isolated compounds: 967, 3308, 3544, 3615, 3619, 6776, 6778, 6779, 12401, 13841, 15489, 16169, 16195, 16714, 16715, 17247, 18416, 19066.
- T5615 *Rumex* spp. (Polygonaceae). Isolated compounds: 3615.
- T5616 *Ruppia maritime* (Potamogetonaceae); HAI SHENG CHUN MAN ZAO; Marine Widgeonweed. Isolated compounds: 14408.
- T5617 *Ruprechtia triflora* (Polygonaceae). Isolated compounds: 6901.
- T5618 *Ruscus aculeatus* (Liliaceae); JIA YE SHU; Butchersbroom. Isolated compounds: 19070, 19074, 20219.
- T5619 *Russula cyanoxantha* (Russulaceae); LAN HUANG HONG GU; Blue-yellow Redmushroom\*. Isolated compounds: 20153.
- T5620 *Russula delica* (Russulaceae); MEI WEI HONG GU; Milk-white Russula. Isolated compounds: 2497, 8013, 12434, 19075, 19076.
- T5621 *Russula lepida* (Russulaceae); DA HONG GU; Big Russula\*. Isolated compounds: 4301, 4302.
- T5622 *Russula ochroleuca* (Russulaceae); HUANG BAI HONG GU; Pale Russula\*. Isolated compounds: 21332.
- T5623 *Russula queletii* (Russulaceae). Isolated compounds: 17433, 17446.
- T5624 *Russula rosacea* (Russulaceae); KU HONG GU; Bitter Russula. Isolated compounds: 18910, 18911.
- T5625 *Ruta chalepensis* (Rutaceae); SUI ZHUANG YUN XIANG; Syrian Rue\*. Isolated compounds: 9304, 11727, 19086.
- T5626 *Ruta graveolens* (Rutaceae); CHOU CAO; Common Rue. Used part: whole herb. TCM Effects: To dispel wind, abate fever, disinhibit urine, quicken blood, resolve toxin, disperse swelling. TCM Indications: Common cold with fever, wind-damp bone pain, infant fright wind, inhibited urination, diarrhea, mounting *qi*, amenorrhea, knocks and falls, heat toxin sores, eczema. Isolated compounds: 1613, 1614, 2309, 2833, 3457, 3857, 6306, 6511, 6708, 7703, 8984, 8985, 8986, 8987, 8988, 8989, 8991, 8992, 9304, 11601, 12254, 13572, 13904, 14246, 14379, 14675, 14682, 15698, 16488, 17297, 18086, 18759, 18829, 18831, 19077, 19078, 19079, 19083, 19084, 19085, 19086, 19087, 19427, 19919, 20002, 20438, 22195, 22219, 22225, 22781.
- T5627 *Ruta microcarpa* (Rutaceae); XIAO GUO YUN XIANG; Smallfruit Rue\*. Isolated compounds: 19427.
- T5628 *Ruta montana* (Rutaceae); MENG DA NA YUN XIANG; Montana Rue\*. Isolated compounds: 4836, 15689, 15690, 15691, 19777.
- T5629 *Ruta oreojasme* (Rutaceae); SHAN MO LI YUN XIANG;

Mountjasmine Rue\*. Isolated compounds: 8989.

T5630 *Ruta pinnata* (Rutaceae); YU ZHUANG YUN XIANG; Pinnate Rue\*. Isolated compounds: 2833, 9452, 11249.

T5631 *Ruta* sp. (Rutaceae). Isolated compounds: 22336, 22774.

T5632 *Ruta* spp. (Rutaceae). Isolated compounds: 22195.

T5633 *Ruta tuberculata* [Syn. *Haplophyllum tuberculatum*] (Rutaceae); LIU ZHUANG DAN YE YUN XIANG; Tuberculate Rue\*. Isolated compounds: 9228, 9229, 17112, 22077.

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T5634 *Sabal blackburniana* (Arecaceae). Isolated compounds: 19103.

T5635 *Sabal causiarum* (Arecaceae). Isolated compounds: 19102.

T5636 *Sabal peregrina* (Arecaceae); WAI LAI CAI ZONG. Isolated compounds: 16380.

T5637 *Sabia schumanniana* (Sabiaceae); SI CHUAN QING FENG TENG; Szechwan Sabia. Used part: root. TCM Effects: To dispel wind and quicken blood, relieve cough and transform phlegm. TCM Indications: Wind-damp impediment pain, knocks and falls, lumbago, chronic cough and asthma. Isolated compounds: 1109, 6057, 6475, 10549, 16401, 20254.

T5638 *Sabia swinhoei* (Sabiaceae); JIAN YE QING FENG TENG; Sharpleaf Sabia. Used part: whole herb. TCM Effects: To quicken blood and transform stasis, soothe sinews and quicken network vessels, eliminate wind-damp, relieve pain due to impediment. TCM Indications: Pain in joints due to rheumatism, weakness in sinews and bones. Isolated compounds: 19097, 19098.

T5639 *Sabina chinensis* (Cupressaceae); YUAN BAI; Chinese Juniper. Used part: leaf. TCM Effects: To dispel wind and dissipate cold, quicken blood and resolve toxin. TCM Indications: Wind-cold common cold, pain in joints due to rheumatism, urticaria, swelling toxin of flat abscess, urinary tract infection. Isolated compounds: 9, 1476.

T5640 *Sabina vulgaris* (Cupressaceae); CHOU BAI; Savin. Used part: branchlet or cone. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, itchy skin, headache, cough. Isolated compounds: 4289, 17592, 19101.

T5641 *Saccharum officinarum* (Poaceae); YAO YONG GAN ZHE; Sugarcane. Isolated compounds: 552, 10967, 20446.

T5642 *Saccharum sinensis* (Poaceae); GAN ZHE; Sweetcane Culm. Used part: stem. TCM Effects: To clear heat and engender liquid, moisten dryness and harmonize center, resolve toxin. TCM Indications: Heat vexation, diabetes mellitus, vomiting nausea, vacuity heat cough, dry stool, swelling of welling abscess, welling abscess and flat abscess with swelling sore. Isolated compounds: 552, 553, 1048, 3040, 7450, 7996, 8827, 13793, 14388, 18261, 20369.

T5643 *Saccogyna viticulosa* (Geocalycaceae). Isolated compounds: 927, 1758, 8951, 8952, 8953, 8954, 11407, 11437, 11458, 11791, 19106, 22583, 22999.

T5644 *Sageretia gracilis* (Rhamnaceae); XI QUE MEI TENG; Thin Sageretia. Isolated compounds: 21706.

*Sageretia thea* = *Sageretia theezans*

T5645 *Sageretia theezans* [Syn. *Sageretia thea*] (Rhamnaceae); QUE MEI TENG; Hedge Sageretia. Used part: root. TCM Effects: To downbear

*qi* and transform phlegm, dispel wind and disinherit damp. TCM Indications: Cough, asthma, stomachache, crane's knee wind, edema. Isolated compounds: 7951, 8759, 20444, 20711.

T5646 *Sagina japonica* [Syn. *Spergula japonica*] (Caryophyllaceae); QI GU CAO; Pearlwort. Used part: whole herb. TCM Effects: To cool blood and resolve toxin, kill worms and relieve itch. TCM Indications: Lacquer sore, bald sores, eczema, erysipelas, scrofula, innominate toxin swelling, poisonous snake bites, deep-source nasal congestion, decayed teeth, internal damage due to knocks and falls. Isolated compounds: 1595.

T5647 *Sagittaria sagittifolia* (Alismataceae); CI GU; Oldworld Arrowhead Corm. Used part: corm. TCM Effects: To cool blood and quicken blood, relieve cough and free strangury, resolve toxin and dissipate binds. TCM Indications: Postpartum blood stasis, retention of placenta, strangury, cough with phlegm and blood. Isolated compounds: 4289, 19124.

*Salacia chinensis* = *Salacia prinoides*

T5648 *Salacia prinoides* [Syn. *Salacia chinensis*] (Hippocrateaceae); SUO LA MU; Prinos-like Salacia. Used part: root. TCM Effects: To expel wind and eliminate damp, free channels and quicken blood. TCM Indications: Wind-damp impediment, blood stasis lumbago. Isolated compounds: 27, 1107, 1113, 3308, 3359, 5096, 6060, 6632, 6853, 6921, 7946, 7947, 7949, 7953, 10127, 10578, 11477, 13249, 13481, 13624, 13975, 16245, 18584, 19178, 19179, 19180, 19181, 19182, 21396, 21397, 21996, 22025, 22673.

T5649 *Salacia* sp. (Hippocrateaceae). Isolated compounds: 21397.

T5650 *Salix babylonica* (Salicaceae); LIU BAI PI; Babylon Weeping Willow Root-bast. Used part: bark or root cortex. TCM Effects: To dispel wind and disinherit damp, disperse swelling and relieve pain. TCM Indications: Wind-damp bone pain, wind swelling and pruritus, jaundice, strangury-turbidity, mammary welling abscess, toothache, burns and scalds. Isolated compounds: 19184.

T5651 *Salix babylonica* (Salicaceae); LIU ZHI; Babylon Weeping Willow Branch. Used part: branchlet. TCM Effects: To dispel wind, disinherit urine, relieve pain, disperse swelling. TCM Indications: Wind-damp impediment pain, strangury, white turbidity, urinary stoppage, infective hepatitis, wind swelling, clove sore, erysipelas, tooth decay, gum swelling. Isolated compounds: 17287, 19184.

T5652 *Salix caprea* (Salicaceae); HUANG HUA ER LIU; Goat Willow. Isolated compounds: 3308, 17884, 17890.

T5653 *Salix purpurea* (Salicaceae); SHUI YANG MU BAI PI; Bitter Willow Bast. Used part: bast. TCM Indications: Incised wound. Isolated compounds: 11693, 19184, 19191.

T5654 *Salix purpurea* (Salicaceae); SHUI YANG ZHI YE; Bitter Willow Branch-leaf. Used part: branchlet-leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Chronic dysentery, swelling toxin of sore and welling abscess. Isolated compounds: 3454, 7285, 19184.

T5655 *Salix* sp. (Salicaceae). Isolated compounds: 3674, 19184, 20434.

T5656 *Salix* spp. (Salicaceae). Isolated compounds: 17720.

T5657 *Salsola collina* (Chenopodiaceae); ZHU MAO CAI; Common Russianthistle. Used part: whole herb. TCM Effects: To lower blood pressure, calm liver and subdue yang, moisten intestines and free stool. TCM Indications: Hypertension, headache, dizziness, insomnia,

- intestinal dry and constipation. Isolated compounds: 7777, 19195, 19196, 19197.
- T5658 *Salsola micranthera* (Chenopodiaceae). Isolated compounds: 20529.
- T5659 *Salvia aegyptiaca* (Lamiaceae); AI JI SHU WEI CAO; Egyptian Sage\*. Isolated compounds: 6968, 14262, 14263.
- T5660 *Salvia blepharophylla* (Lamiaceae); JIE MAO YE SHU WEI CAO; Eyelid-leaf Sage\*. Isolated compounds: 2501, 2502.
- T5661 *Salvia bowleyana* (Lamiaceae); NAN DAN SHEN; *Bowley Sage*. Used part: root. TCM Effects: To quicken blood and transform stasis, regulate menstruation and relieve pain. TCM Indications: Chest impediment and angina, vexation, heart palpitation, pain in stomach duct and abdomen, menstrual disorder [=menoxenia], menstrual pain, menstrual block, postpartum stasis stagnation abdominal pain, flooding and spotting, liver spleen enlargement, arthralgia, mounting *qi* (hernia), swelling of sores. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5662 *Salvia bracteata* (Lamiaceae); BAO PIAN SHU WEI CAO. Isolated compounds: 2584, 19208.
- T5663 *Salvia bucharica* (Lamiaceae). Isolated compounds: 2695, 2696.
- T5664 *Salvia bulleyana* (Lamiaceae); JI YE SHU WEI CAO; Hastateleaf Sage. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5665 *Salvia canariensis* (Lamiaceae); JIA NA LI SHU WEI CAO; Canari Sage\*. Isolated compounds: 19209.
- T5666 *Salvia candelabrum* (Lamiaceae); ZHU TAI SHU WEI CAO. Isolated compounds: 3064, 3065, 3066, 3067, 3068, 3069, 14210, 20465.
- T5667 *Salvia castanea* (Lamiaceae); LI SE SHU WEI CAO; Chestnut Sage. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5668 *Salvia cilicica* (Lamiaceae); TU ER QI SHU WEI CAO; Turkish Sage\*. Isolated compounds: 3, 10429.
- T5669 *Salvia cinnabarina* (Lamiaceae); ZHU HONG SHU WEI CAO. Isolated compounds: 19620.
- T5670 *Salvia dichroantha* (Lamiaceae); ER SE HUA SHU WEI CAO; Twocolor-flower Sage\*. Isolated compounds: 5432, 5433, 5434.
- T5671 *Salvia digitaloides* (Lamiaceae); MAO DI HUANG SHU WEI CAO; Foxglove-like Sage. Used part: root. TCM Effects: To quicken blood and dispel stasis, disinhibit damp and resolve toxin. TCM Indications: Chest impediment and angina, menstrual disorder, menstrual pain, vaginal protrusion (prolapse of uterus), flooding and spotting, red and white vaginal discharge, malign sore and swelling toxin. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5672 *Salvia flava* (Lamiaceae); HUANG HUA SHU WEI CAO; Yellowflower Sage. Used part: root. TCM Effects: To quicken blood and regulate menstruation, transform stasis and relieve pain. TCM Indications: Menstrual disorder, menstrual pain, menstrual block, flooding and spotting, blood ejection, wind-damp bone pain, mammary welling abscess, swelling of sores. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5673 *Salvia glutinosa* (Lamiaceae); JIAO ZHI SHU WEI CAO; Sticky Clary. Used part: root. TCM Effects: To promote contraction and stanch bleeding. TCM Indications: Blood ejection, hemoptysis, hematochezia. Isolated compounds: 5165, 5654, 8289, 11730, 16356.
- T5674 *Salvia greggii* (Lamiaceae); GE SHI SHU WEI CAO; Gregg Sage\*. Isolated compounds: 19212, 19213, 19214, 19215, 19216.
- T5675 *Salvia hydrangea* (Lamiaceae); XIU QIU SHU WEI CAO. Isolated compounds: 277, 4965, 5603, 6374, 16050.
- T5676 *Salvia karabachensis* (Lamiaceae); KA LA BA DAN SHEN; Karaba Sage\*. Isolated compounds: 20685.
- T5677 *Salvia lineata* (Lamiaceae); TIAO WEN SHU WEI CAO. Isolated compounds: 12879.
- T5678 *Salvia mellifera* (Lamiaceae); JU MI SHU WEI CAO; Melliferous Sage\*. Isolated compounds: 17486.
- T5679 *Salvia microstegia* (Lamiaceae); XIAO GAI SHU WEI CAO; Microcap Sage\*. Isolated compounds: 17486.
- T5680 *Salvia miltiorrhiza* (Lamiaceae); DAN SHEN; Danshen. Equivalent plant: *Salvia przewalskii*, *Salvia miltiorrhiza* f. *alba*. Used part: root. TCM Effects: To quicken blood and dispel stasis, regulate menstruation and relieve pain, nourish blood and quiet spirit, cool blood and disperse welling abscess. TCM Indications: Angina pectoris, cerebral atherosclerosis, diffusive intravascular clotting, thrombophlebitis, hepatitis, acute surgical infection, mastitis, erysipelas, otitis media, tonsillitis, bone marrow infection, menstrual disorder, dysmenorrhea, amenorrhea, postpartum stasis stagnation abdominal pain, pain in heart and abdomen, concretion conglomeration accumulation and gathering, heat impediment swelling and pain, knocks and falls, heat entering construction-blood, vexation and agitation, insomnia and vexation, swelling toxin of welling abscess and sore, zoster, neurodermatitis, psoriasis. Isolated compounds: 2106, 2887, 4292, 4627, 4628, 4629, 4630, 4631, 4632, 4633, 4634, 4635, 4680, 4950, 4974, 5653, 5722, 5723, 5763, 6877, 7764, 9455, 10492, 10736, 10737, 11354, 11629, 11729, 11731, 12204, 12420, 12924, 12926, 13370, 14391, 14736, 14862, 14863, 14864, 14865, 14927, 15374, 15375, 15801, 16072, 16073, 17968, 18012, 18925, 19201, 19202, 19203, 19204, 19205, 19207, 19217, 19218, 19219, 19983, 20679, 20680, 20681, 20682, 20683, 20684, 20685, 20686, 20687, 20688, 21383, 22270.
- T5681 *Salvia miltiorrhiza* f. *alba* (Lamiaceae); BAI HUA DAN SHEN; Whiteflower Danshen. Used part: root. TCM Effects: See *Salvia miltiorrhiza*. TCM Indications: See *Salvia miltiorrhiza*. Isolated compounds: 20678, 21080.
- T5682 *Salvia officinalis* (Lamiaceae); YAO YONG DAN SHEN; Medicinal Sage. Isolated compounds: 3743, 12420, 13709, 14580, 19123.
- T5683 *Salvia officinalis* (Lamiaceae); YAO YONG DAN SHEN YE; Medicinal Sage Leaf. Isolated compounds: 1476, 3745, 8090, 9564, 9793, 9794, 9795, 14085, 21202.
- T5684 *Salvia pisidica* (Lamiaceae); DU YU SHU WEI CAO; *Salvia pisidica*. Isolated compounds: 17486.
- T5685 *Salvia plebeia* (Lamiaceae); LI ZHI CAO; Common Sage. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, cool blood and dissipate stasis, disinhibit water and disperse edema. TCM Indications: Common cold with fever, swelling pain in throat, lung heat cough, hemoptysis, blood ejection, hematuria, flooding and spotting, bleeding from hemorrhoids, nephritis with edema, white turbidity, dysentery, swelling toxin of welling abscess and sore,

- eczema titillation, knocks and falls, snake or insect bites. Isolated compounds: 5763, 7557, 7556, 9564, 9617.
- T5686 *Salvia polystachya* (Lamiaceae); DUO SUI SHU WEI CAO. Isolated compounds: 4937, 12879, 17682, 17683, 17684, 17685, 17686, 17687, 19210.
- T5687 *Salvia prionitis* (Lamiaceae); HONG GEN CAO; Hispid Sage. Used part: whole herb with root. TCM Effects: To course wind and clear heat, disinhibit damp, stanch bleeding, quiet fetus. TCM Indications: Common cold with fever, pneumonia with cough and asthma, swelling pain in throat, hepatitis with rib-side pain, diarrhea, dysentery, nephritis, blood ejection, fetal spotting (precipitation of blood in pregnancy). Isolated compounds: 4292, 4950, 5722, 5763, 9629, 10691, 12202, 14391, 14736, 17968, 18012, 19349, 19350, 19614, 20685, 20686, 20687.
- T5688 *Salvia przewalskii* (Lamiaceae); GAN XI SHU WEI CAO; Przewalsk Sage. Used part: root. TCM Effects: See *Salvia miltiorrhiza*. TCM Indications: See *Salvia miltiorrhiza*. Isolated compounds: 2147, 2223, 3206, 4292, 4629, 5722, 5723, 5763, 6016, 6877, 7764, 10957, 14391, 14736, 15453, 17487, 17490, 17968, 18008, 18009, 18010, 18012, 18921, 19209, 20465, 20685, 20686, 20687.
- T5689 *Salvia przewalskii* var. *mandarinorum* (Lamiaceae); ZI DAN SHEN; Manchurian Sage\*. Isolated compounds: 4292, 5722, 14391, 14736, 17968, 18011, 18012, 18013, 20685, 20686, 20687.
- T5690 *Salvia roborowskii* (Lamiaceae); NIAN MAO SHU WEI CAO; Roborowsk Sage. Used part: whole herb. TCM Effects: To clear liver, brighten eyes, relieve pain. TCM Indications: Red eyes with gall, eye screen, hepatitis, toothache. Isolated compounds: 199, 21514, 21518, 21519.
- T5691 *Salvia sclarea* (Lamiaceae); NAN OU DAN SHEN; Clary. Isolated compounds: 20686.
- T5692 *Salvia sinica* (Lamiaceae); NI DAN SHEN; Chinese Sage. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5693 *Salvia splendens* (Lamiaceae); XI YANG HONG; Scarlet Sage. Isolated compounds: 14914.
- T5694 *Salvia* spp. (Lamiaceae); *Salvia* spp. Isolated compounds: 10792.
- T5695 *Salvia staminea* (Lamiaceae); XIONG RUI ZHUANG SHU WEI CAO; Staminate Sage\*. Isolated compounds: 266, 1476, 1492, 3243, 4281, 7764, 10024, 13137, 13511, 14846, 16415, 19220, 19981, 19983, 19987, 20137, 20809.
- T5696 *Salvia tomentosa* (Lamiaceae); RONG MAO DAN SHEN; Tomentose Sage\*. Isolated compounds: 3741, 6452.
- T5697 *Salvia trijuga* (Lamiaceae); SAN YE SHU WEI CAO; Threelaf Sage. Used part: root. TCM Effects: To quicken blood and regulate menstruation, dispel stasis and engender flesh, boost kidney and quiet spirit. TCM Indications: Menstrual disorder, dysmenorrhea, menstrual block, flooding, kidney vacuity lumbago, impotence, insomnia, frequent dreaming, knocks and falls. Isolated compounds: 3916, 4088, 4292, 5722, 5763, 7657, 7764, 9620, 14391, 14736, 17968, 18012, 20465, 20685, 20686, 20687.
- T5698 *Salvia uliginosa* (Lamiaceae). Isolated compounds: 5017.
- T5699 *Salvia wagneriana* (Lamiaceae); Wiedemann Sage\*. Isolated compounds: 5469, 9231, 17575, 17576, 17577.
- T5700 *Salvia wiedemannii* (Lamiaceae); WEI SHI SHU WEI CAO. Isolated compounds: 17486.
- T5701 *Salvia yunnanensis* (Lamiaceae); YUN NAN SHU WEI CAO; Yunnan Sage. Used part: root. TCM Effects: To quicken blood and dispel stasis, cool blood and stanch bleeding, nourish heart and quiet spirit, resolve toxin and disperse swelling. TCM Indications: Menstrual disorder, dysmenorrhea, menstrual block, persistent flow with abdominal pain, concretion and conglomeration, chest impediment and angina, arthralgia, mounting *qi* (hernia), flooding and spotting, blood ejection, spontaneous external bleeding, hacking of blood, blood vacuity and numbness in limbs, sleepless, amnesia, fright palpitation, fearful throbbing, mammary welling abscess, swelling of sores, stasis swelling from knocks and falls. Isolated compounds: 4292, 5722, 5763, 14391, 14736, 17968, 18012, 20685, 20686, 20687.
- T5702 *Samadera madagascariensis* (Simaroubaceae); MA DAO HUANG LIAN SHU; Fatraina (in Madagascar). Isolated compounds: 3355, 3571, 5705, 5706, 19221, 19222.
- T5703 *Samanea saman* (Fabaceae); YU SHU; Raintree. Isolated compounds: 15708.
- T5704 *Sambucus nigra* (Caprifoliaceae); XI YANG JIE GU MU; Black Elder. Used part: stem-branch. TCM Effects: See *Sambucus williamsii*. TCM Indications: See *Sambucus williamsii*. Isolated compounds: 412, 2288, 5639, 5640, 5641, 7821, 8675, 8676, 9590, 9840, 10953, 13640, 17409, 18000, 19226, 23000.
- T5705 *Sambucus sieboldiana* (Caprifoliaceae); LAN SHAI PIAO; Siebold Elder. Isolated compounds: 85, 5583, 5634, 5635, 13589, 13590, 16090, 16587.
- T5706 *Sambucus* sp. (Caprifoliaceae). Isolated compounds: 4451.
- T5707 *Sambucus williamsii* (Caprifoliaceae); JIE GU MU; Elder\*. Equivalent plant: *Sambucus nigra*. Used part: stem-branch. TCM Effects: To dispel wind and disinhibit damp, quicken blood, stanch bleeding. TCM Indications: Wind-damp impediment pain, pain wind, osteoarthritis, acute nephritis, chronic nephritis, wind papules, knocks and falls, swelling pain from fracture, bleeding due to external injury. Isolated compounds: 2331.
- Sandoricum indicum* = *Sandoricum koetjape*
- T5708 *Sandoricum koetjape* [Syn. *Sandoricum indicum*] (Meliaceae); YIN DU SHAN DAO LIAN YE; Indian Katon. Isolated compounds: 19240, 19241, 19242, 19243, 19244.
- T5709 *Sanguinaria canadensis* (Rosaceae); MEI ZHOU XUE GEN CAO; Bloodroot. Isolated compounds: 19284.
- T5710 *Sanguinaria* spp. (Rosaceae). Isolated compounds: 3498.
- T5711 *Sanguisorba minor* (Rosaceae); XIAO DI YU; Small Burnet\*. Isolated compounds: 3178, 6249.
- T5712 *Sanguisorba officinalis* (Rosaceae); DI YU; Garden Burnet. Used part: root. TCM Effects: To cool blood and stanch bleeding, clear heat and resolve toxin, disperse swelling and close sores. TCM Indications: Blood ejection, hemoptysis, duodenal ulcer, spontaneous external bleeding, hematuria, hematochezia, bleeding from hemorrhoids, blood dysentery, flooding and spotting, red and white vaginal discharge, swelling pain of welling abscess and sore, eczema, pudendal itch, burns and scalds, snake or insect bites. Isolated compounds: 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590,

- 1591, 3594, 4451, 6055, 6176, 7657, 8095, 10887, 14293, 14294, 14295, 14746, 14772, 14773, 16358, 17696, 17698, 18916, 19273, 19274, 19275, 19276, 19277, 19278, 19279, 19280, 19281, 19282, 19283, 19285, 19286, 19287, 19288, 20433, 21170, 21861, 21864, 21955, 23008, 23009.
- T5713 *Sanicula* sp. (Apiaceae). Isolated compounds: 12420.
- T5714 *Sansevieria trifasciata* (Liliaceae); HU WEI LAN; Snake Sansevieria. Used part: leaf. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Common cold, lung heat cough, toxin swelling of sores, knocks and falls, poisonous snake bite, scalds. Isolated compounds: 1.
- T5715 *Santalum album* (Santalaceae); TAN XIANG; Sandalwood. Used part: heartwood. TCM Effects: To rectify *qi* and harmonize stomach. TCM Indications: Pain in chest and abdomen, cold stomachache, vomiting of water due to congealing cold *qi* stagnation, coronary heart disease with pattern of *qi* stagnation and blood stasis. Isolated compounds: 2307, 4208, 5115, 5501, 5636, 7008, 7730, 8780, 9621, 10659, 10661, 12207, 15630, 15810, 19300, 19301, 19302, 19303, 19304, 19305, 19306, 19307, 19309, 19310, 19311, 20971, 20972, 20973.
- T5716 *Santolina oblongifolia*. Isolated compounds: 149.
- T5717 *Sapindus delavayi* [Syn. *Pancovia delavayi*] (Sapindaceae); PI SHAO ZI; Chuandian Soapberry Seed. Used part: fruit or seed. TCM Effects: To move *qi* and disperse accumulation, resolve toxin and kill worms. TCM Indications: Mounting *qi* (hernia), child *gan* accumulation, nipple moth, mumps, scab and *lai*, yellow-water sore, ascariasis. Isolated compounds: 18237, 18238, 18239.
- T5718 *Sapindus emarginatus* (Sapindaceae); AO TOU WU HUAN ZI; Emarginate Soapberry Seed. Isolated compounds: 411, 9261, 16051.
- T5719 *Sapindus mukorossi* (Sapindaceae); WU HUAN ZI; Chinese Soapberry Seed. Used part: seed. TCM Effects: To clear heat, dispel phlegm, disperse accumulation, kill worms. TCM Indications: Throat impediment sore with gall, lung heat cough, aphonia, food stagnation, *gan* accumulation, roundworm reversal with abdominal pain, trichomoniasis, skin lichen, toxin swelling. Isolated compounds: 15029, 15030, 15031, 15032, 15033, 15034, 15035, 15036, 15037.
- T5720 *Sapindus mukorossi* (Sapindaceae); WU HUAN ZI PI; Chinese Soapberry Peel. Used part: pericarp. TCM Effects: To clear heat and resolve phlegm, relieve pain, disperse accumulation. TCM Indications: Throat impediment sore with gall, stomachache, mounting *qi*, wind-damp pain, worm accumulation, food stagnation, innominate toxin swelling. Isolated compounds: 15029, 15030, 15031, 15032, 15033, 15034, 15035, 15036, 15037, 19316, 19317, 19318, 19319, 19320.
- T5721 *Sapindus mukorossi* (Sapindaceae); WU HUAN ZI YE; Chinese Soapberry Leaf. Used part: branchlet-leaf. TCM Effects: To resolve toxin, suppress cough. TCM Indications: Snake bite, pertussis. Isolated compounds: 1476, 19316, 19317.
- T5722 *Sapium japonicum* (Euphorbiaceae); BAI MU WU JIU; Japanese Sapium. Used part: root cortex and leaf. TCM Effects: To dissipate stasis blood, strengthen lumbus and knees. TCM Indications: Taxation damage, aching in lumbus and knees. Isolated compounds: 4055.
- T5723 *Sapium sebiferum* (Euphorbiaceae); WU JIU MU GEN PI; Chinese Tallowtree Bark. Used part: root cortex. TCM Effects: To drain precipitation and expel water, dissipate binds and disperse swelling, resolve snake toxin, lower blood pressure. TCM Indications: Edema, ascites, urinary and fecal stoppage, hypertension, concretion conglomeration accumulation and gathering, painful swelling from clove sore, eczema, scab and lichen, poisonous snake bite. Isolated compounds: 4055, 6224, 8095, 19597, 22778.
- T5724 *Sapium sebiferum* (Euphorbiaceae); WU JIU YE; Chinese Tallowtree Leaf. Used part: leaf. TCM Effects: To drain precipitation and expel water, dissipate stasis and disperse swelling, resolve toxin and kill worms. TCM Indications: Swollen welling abscess and clove sores, sore and scab, foot lichen, eczema, snake bite, vaginitis. Isolated compounds: 8095.
- T5725 *Sapium* spp. (Euphorbiaceae). Isolated compounds: 17181.  
*Sapium sylvatica* = *Stillingia sylvatica*
- T5726 *Saponaria officinalis* (Caryophyllaceae); FEI ZAO CAO; Soapwort. Used part: root. TCM Effects: To dispel wind and eliminate damp, dispel phlegm, disinhibit urine, kill worms. TCM Indications: Cough, skin diseases. Isolated compounds: 19331.
- T5727 *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*] (Apiaceae); FANG FENG; Divaricate Saposhnikovia. Used part: root. TCM Effects: To dispel wind and resolve exterior, overcome damp and relieve pain, resolve spasm, relieve itch. TCM Indications: Migraine, headache and generalized pain, common cold, rheumatoid arthritis, externally contracted wind-cold, wind-damp impediment pain, aching pain in joints, abdominal pain and diarrhea, intestinal wind bleeding, tetanus, wind papule itching, sores. Isolated compounds: 407, 2309, 2412, 3652, 4367, 4680, 5039, 6529, 7514, 7707, 8684, 9205, 9375, 9377, 9512, 9514, 9976, 11001, 12601, 12800, 14176, 14812, 15252, 15973, 15977, 15984, 16876, 16885, 17077, 17376, 17856, 18086, 19983, 20446.
- T5728 *Saprolegnia ferax*. Isolated compounds: 19976.
- T5729 *Saprosma scortechinii* (Rubiaceae); MA LAI BAN DAO RAN MU SHU; Malaya Dieingtree\*. Isolated compounds: 5785, 5915, 6869, 13914, 13952, 13953, 19351, 19352, 21746, 21782.
- T5730 *Sarcandra glabra* [Syn. *Chloranthus glaber*] (Chloranthaceae); JIU JIE CHA; Glabrous Sarcandra. Used part: leaf and branchlet. TCM Effects: To dispel wind and eliminate damp, quicken blood and dissipate stasis, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, numbness in limbs, knocks and falls, fracture, dysmenorrhea, postpartum blood stasis abdominal pain, pneumonia, acute appendicitis, bacillary dysentery, cholecystitis, abscess, stomatitis. Isolated compounds: 4143, 7996, 11428, 11792, 20444.
- T5731 *Sarcococca coriacea* [Syn. *Sarcococca wallichii*] (Buxaceae); YUN NAN YE SHAN HUA; Yunnan Sarcococca. Used part: whole herb. TCM Effects: To quicken blood and move *qi*, disperse swelling and relieve pain. TCM Indications: Pain in stomach duct, knocks and falls, innominate toxin swelling. Isolated compounds: 7177, 7198, 8009, 14449.
- T5732 *Sarcococca saligna* (Buxaceae); YE SHAN HUA; Willowleaf Sarcococca. Isolated compounds: 904, 19354, 19355, 19356.
- T5733 *Sarcococca vagans* (Buxaceae); HAI NAN YE SHAN HUA; Hainan Sarcococca. Used part: root. TCM Effects: To joint bones. TCM

- Indications: Fracture. Isolated compounds: 16501, 19362, 19363, 19364, 19365.  
*Sarcococca wallichii* = *Sarcococca coriacea*
- T5734 *Sarcodon aspratrus* (Thelephoraceae); Kotake (in Japanese). Isolated compounds: 10592.
- T5735 *Sarcodon glaucopus* (Thelephoraceae); CANG BAI BING ROU CHI JUN. Isolated compounds: 8521, 8522.
- T5736 *Sarcomelicope glauca*. Isolated compounds: 7830, 9226, 12254, 20002.
- T5737 *Sarcomelicope megistophylla*. Isolated compounds: 569, 776, 8027, 8028, 13651, 13652, 19359, 19618.
- T5738 *Sargassum micracanthum* (Sargassaceae); Brown alga; Gulfweed *Sargassum micracanthum*. Isolated compounds: 17516, 17517, 17518, 17519, 17520.
- T5739 *Sargassum parvivesiculosum* (Sargassaceae); XI NANG MA WEI ZAO; Parvivesiculose Gulfweed\*. Isolated compounds: 5481, 6480, 6481, 9411, 14931.
- T5740 *Sargassum vachellianum* (Sargassaceae); WA SHI MA WEI ZAO; Vachelli Gulfweed\*. Used part: frond. TCM Effects: To disperse phlegm, soften hardness, disinhibit water, abate swelling. TCM Indications: Goiter and carcinomas of neck, scrofula, bulging mounting, leg *qi* puffy swelling. Isolated compounds: 22307.
- T5741 *Sargentodoxa cuneata* (Sargentodoxaceae); DA XUE TENG; Sargentgloryvine. Used part: stem. TCM Effects: To clear heat and resolve toxin, quicken blood, dispel wind. TCM Indications: Intestinal welling abscess and abdominal pain, amenorrhea, dysmenorrhea, wind-damp impediment pain, painful swelling from knocks and falls. Isolated compounds: 3551, 4362, 4363, 4364, 4365, 4366, 13834, 16254, 19366, 22333.
- T5742 *Sarracenia flava* (Sarraceniaceae); HUANG PING ZI CAO; Yellow Pitcherplant. Isolated compounds: 3988, 19387.
- T5743 *Sarracenia* sp. (Sarraceniaceae). Isolated compounds: 9568.
- T5744 *Sassafras albidum* (Lauraceae); MEI ZHOU CHA MU; Sassafras. Isolated compounds: 2538, 19121.
- T5745 *Sassafras randainense* (Lauraceae); TAI WAN CHA MU; Taiwan Sassafras. Isolated compounds: 7521, 13388, 18533.
- T5746 *Sassafras tzumu* (Lauraceae); CHA SHU; Common Sassafras. Used part: root, stem-leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood and dissipate stasis, stanch bleeding. TCM Indications: Wind-damp impediment pain, knocks and falls, taxation damage in lumbar muscle, hemiplegia, bleeding due to external injury. Isolated compounds: 7521.
- T5747 *Sauromatum guttatum* (Araceae); KU BAO; Monarch-of-the-East. Isolated compounds: 11025, 19187.
- T5748 *Sauropus androgynus* (Euphorbiaceae); TONG XU SHOU GONG MU; Geckowood. Isolated compounds: 11478, 19418.
- T5749 *Saururus cernuus* (Saururaceae); MEI ZHOU SAN BAI CAO; Lizard's-tail. Isolated compounds: 4920, 5624, 19404, 19415, 19416, 19417, 22383.
- T5750 *Saururus chinensis* (Saururaceae); SAN BAI CAO; Chinese Lizardtail. Used part: rhizome or whole plant. TCM Effects: To clear heat and disinhibit urine, resolve toxin and disperse swelling. TCM Indications: Edema, beriberi, jaundice, strangury-turbidity, vaginal discharge, swollen welling abscess, clove sore. Isolated compounds: 1692, 1695, 2039, 6410, 10887, 11642, 13292, 13474, 13475, 13992, 18411, 19398, 19399, 19400, 19401, 19402, 19403, 19404, 19405, 19406, 19407, 19417, 19419.
- T5751 *Saururus* sp. (Saururaceae). Isolated compounds: 13474, 13475, 19397, 19405, 19406.
- T5752 *Saussurea amarafisch* (Asteraceae). Isolated compounds: 19087, 20569.  
*Saussurea carthamoides* = *Hemistepta lyrata*
- T5753 *Saussurea gnaphaloides* (Asteraceae); SHU QU FENG MAO JU; Cudweed-like Saussurea. Used part: whole herb with root. TCM Effects: See *Saussurea laniceps*. TCM Indications: See *Saussurea laniceps*. Isolated compounds: 19087, 20569.
- T5754 *Saussurea graminea* (Asteraceae); HE YE FENG MAO JU; Grassleaf Saussurea. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, cool blood and stanch bleeding. TCM Indications: Common cold with fever, damp-heat jaundice, vomiting, diarrhea, blood ejection, bloody stool. Isolated compounds: 19087, 20569.  
*Saussurea hieracioides* = *Saussurea superba*
- T5755 *Saussurea involucrata* (Asteraceae); XUE LIAN; Snow Lotus. Used part: whole herb with flower. TCM Effects: To warm kidney and invigorate *yang*, dispel wind and overcome damp, quicken blood and free menstruation. TCM Indications: Impotence, weakness in lumbus and knees, wind-damp impediment pain, menstrual disorder, amenorrhea, uterus cold and abdominal pain, cold rheum cough. Isolated compounds: 1621, 9385, 9500, 19087, 20569, 22809.
- T5756 *Saussurea japonica* (Asteraceae); FENG MAO JU; Wildhairdaisy. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and relieve pain. TCM Indications: Wind-damp impediment pain, knocks and falls. Isolated compounds: 12522, 12523.
- T5757 *Saussurea laniceps* (Asteraceae); MIAN TOU XUE LIAN; Lanatchead Saussurea. Equivalent plant: *Saussurea medusa*, *Saussurea gnaphaloides*. Used part: whole herb with root. TCM Effects: To warm kidney and invigorate *yang*, regulate menstruation and stanch bleeding. TCM Indications: Impotence, limp aching lumbus and knees, vaginal discharge, menstrual disorder, wind-damp impediment, bleeding due to external injury. Isolated compounds: no.
- T5758 *Saussurea lappa* [Syn. *Aucklandia lappa*] (Asteraceae); MU XIANG; Common Aucklandia (Costustoot). Used part: root. TCM Effects: To move *qi* and relieve pain, fortify spleen and disperse food. TCM Indications: Distending pain in chest and stomach duct, diarrhea and tenesmus, non-digestion of food accumulation, no thought of food and drink. Isolated compounds: 834, 1048, 1122, 1123, 1525, 1617, 1795, 2331, 3045, 3354, 3774, 3908, 4126, 4127, 4128, 4485, 4486, 4550, 4565, 4891, 5570, 5607, 5701, 5795, 6741, 6746, 7044, 8338, 8339, 8341, 8342, 8817, 9486, 9669, 10483, 11122, 11123, 11203, 11371, 11627, 12511, 12512, 12849, 12873, 12891, 13899, 15146, 17055, 18673, 19308, 19420, 19421, 19422, 19423, 19424, 19427, 19687, 19983, 20369, 20469, 20470, 20569, 20704, 22962.
- T5759 *Saussurea medusa* (Asteraceae); SHUI MU XUE LIAN; Medusa Saussurea. Used part: whole herb with root. TCM Effects: See *Saussurea laniceps*. TCM Indications: See *Saussurea laniceps*.

- Isolated compounds: 85, 1476, 1491, 1492, 1499, 1621, 1623, 2920, 2921, 3609, 3610, 3674, 11642, 12987, 13137, 13145, 13149, 14224, 17409, 17415, 18317, 19425, 19426, 19618, 20556.
- T5760 *Saussurea mongolica* (Asteraceae); MENG GU FENG MAO JU; Mongolian Saussurea\*. Isolated compounds: 1847, 13983.
- T5761 *Saussurea neopulchella* (Asteraceae); XIN MEI FENG MAO JU; New Beauty Saussurea\*. Isolated compounds: 19414.
- T5762 *Saussurea nigrescens* (Asteraceae); DUN BAO XUE LIAN; Blacken Saussurea. Used part: whole herb. TCM Effects: To quicken blood and regulate menstruation, clear heat and brighten eyes. TCM Indications: Menstrual disorder, steaming bone taxation fever, liver heat and red eyes. Isolated compounds: 19087, 20569.
- T5763 *Saussurea parviflora* (Asteraceae); XIAO HUA FENG MAO JU; Smallflower Saussurea\*. Isolated compounds: 19087, 20569.
- T5764 *Saussurea petrovii* (Asteraceae). Isolated compounds: 7205, 20697, 20699, 20700, 20701, 20702.
- T5765 *Saussurea phaeantha* (Asteraceae); HE HUA XUE LIAN; Brownflower Saussurea. Isolated compounds: 20569.
- T5766 *Saussurea prostrata* (Asteraceae). Isolated compounds: 19087, 20569.
- T5767 *Saussurea pulchella* (Asteraceae); MEI HUA FENG MAO JU; Beautiful-flowered Saussurea. Used part: whole herb. TCM Effects: To dispel wind, clear heat, eliminate damp, relieve pain. TCM Indications: Common cold with fever, rheumatic arthritis, damp-heat diarrhea. Isolated compounds: 19087, 19414, 20569.
- T5768 *Saussurea salsa* (Asteraceae); YAN DI FENG MAO JU; Saline Saussurea. Isolated compounds: 4795.
- T5769 *Saussurea soroseris* (Asteraceae). Isolated compounds: 19087, 20569.
- T5770 *Saussurea superba* [Syn. *Saussurea hieracioides*] (Asteraceae); CHANG MAO FENG MAO JU; Hawkweed-like Saussurea. Used part: whole herb. TCM Effects: To drain water retention. TCM Indications: Edema, ascites (hydroperitoneum), effusion in thorax. Isolated compounds: 20569.
- T5771 *Saussurea tridactyla* var. *maidugonla* (Asteraceae); CONG ZHU XUE LIAN. Isolated compounds: 20003.
- T5772 *Saxidomus giganteus* (Veneridae); BAI TA GE. Isolated compounds: 19431.
- T5773 *Saxifraga stolonifera* (Saxifragaceae); HU ER CAO; Creeping Rockfoil. Used part: whole herb. TCM Effects: To dispel wind and clear heat, cool blood and resolve toxin. TCM Indications: Wind papules, eczema, otitis media, erysipelas, cough with blood ejection, pulmonary welling abscess, flooding and spotting, hemorrhoids. Isolated compounds: 1618, 2312, 15719, 17895, 18369.
- T5774 *Scabiosa caucasica* (Dipsacaceae); GAO JIA SUO LAN PEN HUA; Caucasian Scabious\*. Isolated compounds: 6454.
- T5775 *Scabiosa comosa* (Dipsacaceae); MENG GU SHAN LUO BO; Narrowleaf Scabious. Used part: flower. TCM Effects: To clear heat and drain fire. TCM Indications: Lung heat cough asthma, liver fire headache, red eyes, damp-heat jaundice. Isolated compounds: 1121, 6452, 8827, 15363.
- T5776 *Scabiosa soongorica* (Dipsacaceae); ZHUN GE ER LAN PEN HUA. Isolated compounds: 22839.
- T5777 *Scabiosa* spp. (Dipsacaceae). Isolated compounds: 3551.
- T5778 *Scabiosa tschiliensis* (Dipsacaceae); HUA BEI LAN PEN HUA; Huapei Scabious. Isolated compounds: 9632, 9633, 16701, 19433, 19434, 19435, 19436, 19437, 19438, 19439, 19440, 19441, 19442.
- T5779 *Scapania undulata* (Scapaniaceae); BO BAN HE YE TAI. Isolated compounds: 6740, 6744, 9332, 11509, 16911, 16976.
- T5780 *Scaphopetalum thonneri* (Sterculiaceae). Isolated compounds: 19456, 19457.
- T5781 *Schefflera arboricola* (Araliaceae); E ZHANG TENG; Scandent Schefflera. Used part: root or stem-leaf. TCM Effects: To dispel wind and relieve pain, quicken blood and disperse swelling. TCM Indications: Wind-damp impediment pain, headache, toothache, pain in stomach duct and abdomen, dysmenorrhea, postpartum abdominal pain, painful swelling from knocks and falls, fracture, swelling of sores. Isolated compounds: 1503, 1515, 17729, 18419, 18687, 18688, 18704, 18705, 18721, 18726.
- T5782 *Schefflera faguetti* (Araliaceae). Isolated compounds: 8662, 8717, 8718, 8749, 18690, 18692.
- T5783 *Schefflera rotundifolia* (Araliaceae); YUAN YE E ZHANG CHAI; Roundleaf Schefflera\*. Isolated compounds: 1575, 2276, 2287, 2290, 8715, 8716, 10953, 18689, 18691, 18693, 18733, 22838.
- T5784 *Schefflera* spp. (Araliaceae). Isolated compounds: 12642.
- T5785 *Schefflera venulosa* (Araliaceae); MI MAI E ZHANG CHAI; Densevein Schefflera. Used part: stem cortex. TCM Effects: To dispel wind and relieve pain, quicken blood and disperse swelling. TCM Indications: Wind-damp impediment pain, pain in stomach duct, wound swelling from knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 3615, 6204, 19458.
- T5786 *Schinopsis* sp. (Anacardiaceae). Isolated compounds: 5613.
- T5787 *Schinopsis* spp. (Anacardiaceae). Isolated compounds: 3492.
- T5788 *Schinus molle* (Schisandraceae); ROU MAO XIAO RU XIANG; Hairy Peppertree\*. Isolated compounds: 3462, 6938, 11530.
- T5789 *Schinus terebinthifolius* (Schisandraceae); XIAO RU XIANG; Brazilian Peppertree. Isolated compounds: 2380, 3188, 19101.
- T5790 *Schisandra arisanensis* (Schisandraceae); A LI SHAN WU WEI ZI; Taiwan Magnoliavine. Isolated compounds: 8907, 8912, 8917, 19465.
- T5791 *Schisandra chinensis* (Schisandraceae); WU WEI ZI; Chinese Magnoliavine. Equivalent plant: *Schisandra sphenanthera*. Used part: fruit. TCM Effects: To promote contraction and secure astriction, boost *qi* and engender liquid, quiet heart and spirit. TCM Indications: Enduring cough and vacuity asthma, dream emission, frequent urination and enuresis, incessant chronic diarrhea, spontaneous sweating and night sweating, fluid damage and thirst, palpitation and insomnia. Isolated compounds: 336, 1206, 1207, 1208, 1209, 1212, 2240, 2241, 2242, 2245, 2411, 2412, 2852, 3045, 3242, 3465, 3466, 3760, 3768, 3769, 3848, 4367, 4499, 4550, 5178, 5213, 6373, 6741, 6926, 7392, 8312, 8906, 8907, 8908, 8909, 8910, 8911, 8912, 8913, 8914, 8915, 8916, 8917, 8918, 8919, 8920, 8921, 8922, 8923, 8924, 8925, 8926, 9501, 11510, 11626, 11698, 12843, 12849, 12955, 12969, 14156, 14599, 15146, 15701, 15705, 15741, 15968, 15969, 17096, 17103, 17129, 17376, 17806, 18061, 19044, 19303, 19306, 19473, 19474, 19477, 19478, 19489, 19490, 19491, 19497, 19687, 19786, 20988, 20990, 20992, 20995, 21353, 21377, 21415, 22559, 22560, 22561.
- T5792 *Schisandra grandiflora* (Schisandraceae); DA HUA WU WEI ZI;



- Bigflower Magnoliavine\*. Isolated compounds: 19472.
- T5793 *Schisandra henryi* (Schisandraceae); YI GENG WU WEI ZI; Henry Magnoliavine. Used part: rattan and root. TCM Effects: To dispel wind and eliminate damp, move *qi* and relieve pain, quicken blood and relieve pain. TCM Indications: Wind-damp impediment pain, *qi* pain in heart and stomach, taxation damage and blood ejection, amenorrhea, menstrual disorder, knocks and falls, swelling toxin of incised wound. Isolated compounds: 1466, 8907, 12011, 19475, 19498, 22737, 22738.
- T5794 *Schisandra lancifolia* (Schisandraceae); XIA YE WU WEI ZI; Narrowleaf Magnoliavine\*. Used part: lianoid stem and root. TCM Effects: To quicken blood and dispel stasis, disperse swelling and relieve pain. TCM Indications: Knocks and falls, fracture, wind-damp lumbago. Isolated compounds: 12473, 12474, 12475, 12476.
- T5795 *Schisandra micrantha* (Schisandraceae); XIAO HUA WU WEI ZI; Smallflower Magnoliavine\*. Used part: root. TCM Effects: To dispel wind and disinherit damp, rectify *qi* and quicken blood. TCM Indications: Wind-damp bone pain, knocks and falls, stomachache, menstrual disorder, nephritis. Isolated compounds: 10312, 12011, 14832, 14833, 14834, 19499.
- T5796 *Schisandra nigra* (Schisandraceae); NEI FENG XIAO; Black Magnoliavine\*. Isolated compounds: 15570, 19476, 19499.
- T5797 *Schisandra propinqua* (Schisandraceae); HAN RUI WU WEI ZI; Angletwig Magnoliavine. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, soothe sinews and quicken blood, disperse swelling and relieve pain. TCM Indications: Influenza, poisonous snake bite, rabid dog bite, rheumatism numbness, knocks and falls, menstrual disorder, swelling toxin of welling abscess and sore. Isolated compounds: 1467, 17928, 17929, 19488.
- T5798 *Schisandra propinqua* var. *intermedia* (Schisandraceae); ZHONG JIAN WU WEI ZI; Intermediate Magnoliavine. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, soothe sinews and quicken blood, disperse swelling and relieve pain. TCM Indications: Influenza, poisonous snake bite, rabid dog bite, rheumatism numbness, knocks and falls, menstrual disorder, swelling toxin of welling abscess and sore. Isolated compounds: 1468, 1518, 1558, 13522, 17848.
- T5799 *Schisandra rubriflora* (Schisandraceae); HONG HUA WU WEI ZI; Redflower Magnoliavine. Used part: rattan. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Rheumatic arthritis. Isolated compounds: 5178, 5213, 8917, 8923, 12003, 19044, 19477, 19478, 19497.
- T5800 *Schisandra* sp. (Schisandraceae). Isolated compounds: 19479, 19480, 19481, 19482.
- T5801 *Schisandra sphaerandra* (Schisandraceae); QIU RUI WU WEI ZI; Ballander Magnoliavine. Isolated compounds: 15570.
- T5802 *Schisandra sphenanthera* (Schisandraceae); HUA ZHONG WU WEI ZI; Orange Magnoliavine. Used part: fruit. TCM Effects: See *Schisandra chinensis*. TCM Indications: See *Schisandra chinensis*. Isolated compounds: 1466, 1467, 5213, 8907, 8908, 8917, 15570, 19473, 19474, 19475, 19487, 19489, 19490, 19497, 19498.
- T5803 *Schistochila glaucescens* (Schistochilaceae); CANG BAI QI SHE TAI. Isolated compounds: 8247, 8248.  
*Schizocapsa plantaginea* = *Tacca plantaginea*
- T5804 *Schizonepeta tenuifolia* [Syn. *Nepeta tenuifolia*] (Lamiaceae); JING JIE; Fineleaf Schizonepeta. Used part: aerial parts. TCM Effects: To dispel wind, resolve exterior, outthrust papules, stanch bleeding. TCM Indications: Common cold with fever, headache, itchy eye, cough, swelling pain in throat, measles papules, wind papules, swollen welling abscess, sore and scab, throat pain, conjunctivitis, child measles, spontaneous external bleeding, blood ejection, hemochezia, flooding and spotting, postpartum blood dizziness. Isolated compounds: 3045, 3242, 3674, 4550, 5868, 6741, 9456, 9458, 9670, 10069, 11639, 12843, 13137, 13776, 14271, 15978, 15979, 15983, 17376, 17377, 17452, 17456, 18190, 18925, 19503, 19504, 19505, 19506, 19507, 19508, 19509, 19510.
- T5805 *Schkuhria pinnata* (Asteraceae); SHI KU JU; Dwarf Marigold. Isolated compounds: 9570, 19511.
- T5806 *Schlumbergera truncata* (Cactaceae); XIE ZHUA LAN; Crab-craw Orchid\*. Used part: aerial parts. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Toxin swelling of sores, parotitis. Isolated compounds: 15343.
- T5807 *Schnabelia tetradonta* (Lamiaceae); SI CHI SI LENG CAO; Fourteech Schnabelia. Isolated compounds: 313, 1476, 1480, 1560, 2056, 4680, 8745, 8767, 13580, 15133, 19983, 21144.
- T5808 *Schoenocaulon officinale* (Liliaceae); WEI JING BAI HE; *Schoenocaulon officinale*. Isolated compounds: 4337, 14963, 15058, 16471, 16472, 17283, 18647, 19512, 22382.
- T5809 *Scilla dracomontana* (Liliaceae). Isolated compounds: 5986.
- T5810 *Scilla maderensis* [Syn. *Autonoë madeirensis*] (Liliaceae); MA DE LI MIAN ZAO ER; Madrid Squill\*. Isolated compounds: 1041.
- T5811 *Scilla nervosa* (Liliaceae). Isolated compounds: 5839, 6210, 6234, 6256, 9836, 9842, 9843, 9844, 9851, 10385, 10386, 10387, 10410, 13854, 13855, 13856.
- T5812 *Scilla peruviana* (Liliaceae); BI LU MIAN ZAO ER; Peru Squill\*. Isolated compounds: 16997, 16998.
- T5813 *Scilla scilloides* (Liliaceae); MIAN ZAO ER; Common Squill. Used part: bulb or whole herb. TCM Effects: To quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Mammary welling abscess, knocks and falls, pain in sinews and bones, swelling pain of welling abscess and sore, edema due to heart disease. Isolated compounds: 17951, 19516, 19517, 19524, 19525, 19526.
- T5814 *Scleroderma citrinum* (Sclerodermataceae); HUANG YING PI MA BO; Yellow Hardpeel Puff-ball\*. Isolated compounds: 422, 6298, 6394, 14321, 14670.  
*Scleroderma tinctorium* = *Pisolithus tinctorius*
- T5815 *Scleropyrum wallichianum* (Santalaceae); YING HE; Wallich Scleropyrum. Isolated compounds: 19533, 19983, 19999, 20369, 20377.
- T5816 *Sclerotinia fruticola* (Sclerotiniaceae). Isolated compounds: 19534.
- T5817 *Scolopendra subspinipes mutilans* (Scolopendridae); WU GONG; Centipede. Used part: dried body. TCM Effects: To calm, lower blood pressure, extinguish wind and check tetany, resolve toxin and dissipate binds, free network vessels and relieve pain. TCM Indications: Acute fright wind, chronic fright wind, tetanus, spasm, convulsion, toxin swelling of sores and open sores, scrofula with ulceration, intractable headache with pulling sensation, wind-damp impediment pain, hypertension. Isolated compounds: 3585, 9568, 10190.

- T5818 *Scoparia dulcis* (Scrophulariaceae); YE GAN CAO; Sweet Broomwort. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit urine and disperse edema. TCM Indications: Lung heat cough, summerheat-heat diarrhea, beriberi with general edema, child measles, papules, eczema, prickly heat, laryngitis, erysipelas. Isolated compounds: 1477, 1486, 3907, 6621, 7016, 7522, 11405, 19535, 19536, 19537, 19538, 19539, 21734.
- T5819 *Scopolia acutangula* [Syn. *Anisodus acutangulus*] (Solanaceae); SAN FEN SAN; Acutangular Scopolia. Used part: root, leaf or seed. TCM Effects: To anesthetize and settle pain. TCM Indications: Stomachache, fracture, wind-damp pain, knocks and falls. Isolated compounds: 4417.
- T5820 *Scopolia carniolica* (Solanaceae); OU LANG DANG; European Scopolia. Isolated compounds: 10870.
- T5821 *Scopolia japonica* (Solanaceae); DONG LANG DANG; Japanese Scopolia. Used part: rhizome. TCM Effects: To resolve tetany and settle pain, constrain sweat and astringe intestines. TCM Indications: Various pains, mental manic agitation, swelling toxin of sore and welling abscess, anthrax, bleeding due to external injury, body lichen. Isolated compounds: 10870, 15760, 19542, 19545.
- T5822 *Scopolia sinensis* (Solanaceae); TIAN PENG ZI; Chinese Atropanthe. Used part: root. TCM Effects: To dissipate wind-cold, quicken network vessels and relieve pain. TCM Indications: Wind-cold-damp impediment, paralysis, painful wound from knocks and falls, tetanus. Isolated compounds: 2001.
- T5823 *Scopolia* spp. (Solanaceae). Isolated compounds: 10870.  
*Scopolia tangutica* = *Anisodus tanguticus*
- T5824 *Scorzonera hispanica* (Asteraceae); XI JUAN YA CONG; Scorzonera. Isolated compounds: 3981.
- T5825 *Scorzonera humilis* (Asteraceae); AI SHENG YA CONG; Viper's-glass. Isolated compounds: 22160, 22161.
- T5826 *Scrophularia buergeriana* (Scrophulariaceae); BEI XUAN SHEN; Buerger Figwort. Used part: root. TCM Effects: See *Scrophularia ningpoensis*. TCM Indications: See *Scrophularia ningpoensis*. Isolated compounds: 2702, 2709, 2710, 2711, 2712, 2887, 3695, 4135, 7768, 9237, 9238, 13885, 13886, 13888, 13889, 13890, 13891, 14259.
- T5827 *Scrophularia lepidota* (Scrophulariaceae); LIN PIAN XUAN SHEN; Scale Figwort\*. Isolated compounds: 815, 816, 1241, 2004, 3306, 5675, 11148, 14222, 19568, 19960.
- T5828 *Scrophularia ningpoensis* (Scrophulariaceae); XUAN SHEN; Ningpo Figwort. Equivalent plant: *Scrophularia buergeriana*. Used part: root. TCM Effects: To clear heat and cool blood, enrich *yin* and downbear fire, resolve toxin and dissipate binds. TCM Indications: Heat entering construction-blood, generalized fever, vexation and thirst, crimson tongue, macular eruption, steaming bone taxation cough, vacuity vexation and insomnia, fluid damage and constipation, dry eyes with clouded flowery vision, swelling pain in throat, scrofula with phlegm node, sore toxin of welling abscess and flat abscess. Isolated compounds: 410, 415, 1866, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2713, 3695, 6841, 7776, 8064, 9237, 9238, 9912, 10209, 10381, 14222, 15615, 15616, 15617, 15618, 15619, 15620, 15621, 16402, 19571, 19983.
- T5829 *Scrophularia nodosa* (Scrophulariaceae); LIN SHENG XUAN SHEN; Common Figwort. Isolated compounds: 3695, 6454, 9238.
- T5830 *Scurrula atropurpurea* (Loranthaceae); HEI ZI LI GUO JI SHENG; Black-purple Scurrula\*. TCM Effects: Anticarcinoma. Isolated compounds: 2040, 2892, 3308, 6853, 6864, 6923, 10944, 12891, 12893, 15947, 15955, 15956, 16066, 18411, 19087, 21310.
- T5831 *Scutellaria altissima* (Lamiaceae); GAO HUANG QIN; Tall Skullcap. Isolated compounds: 19587.
- T5832 *Scutellaria amabilis* (Lamiaceae); KE AI HUANG QIN; Delightful Skullcap\*. Isolated compounds: 5831, 5980, 9394, 15970, 21109, 21110, 21111, 21115, 21736, 21778, 21779.
- T5833 *Scutellaria amoena* (Lamiaceae); DIAN HUANG QIN; Yunnan Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 2106, 3600, 15815, 16216, 16846, 16848, 19580, 19581, 19983, 20009, 21108, 21114, 21775, 22718, 22720.
- T5834 *Scutellaria baicalensis* (Lamiaceae); HUANG QIN; Baikal Skullcap. Equivalent plant: *Scutellaria amoena*, *Scutellaria viscidula*, *Scutellaria likiangensis*, *Scutellaria rehderiana*, *Scutellaria hypericifolia*. Used part: root. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin, stanch bleeding, quiet fetus. TCM Indications: Chest oppression with retching, diarrhea, jaundice, lung heat cough, infection of upper respiratory tract, acute tonsillitis, acute pharyngolaryngitis, ardent fever with vexation and thirst, blood heat, blood ejection, spontaneous external bleeding, swelling toxin of welling abscess and sore, stirring fetus in pregnancy. Isolated compounds: 1568, 1569, 2102, 2103, 2106, 3040, 3600, 5546, 5685, 5830, 6150, 6161, 7278, 9486, 10026, 10444, 10829, 11697, 11703, 13847, 13942, 15815, 16216, 16217, 16846, 16848, 17098, 17101, 19587, 19587, 19588, 19983, 20004, 20009, 20369, 20369, 20446, 21094, 21113, 21114, 21126, 21708, 21710, 21712, 21732, 21738, 21769, 21772, 21773, 21775, 21777, 21855, 22534, 22718, 22719, 22720.
- T5835 *Scutellaria barbata* [Syn. *Scutellaria rivularis*] (Lamiaceae); BAN ZHI LIAN; Barbed Skullcap. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding and dissipate stasis, disinhibit urine and disperse edema. TCM Indications: Heat toxin swollen welling abscess, throat pain, pulmonary welling abscess, intestinal welling abscess, scrofula, poisonous snake bite, knocks and falls, blood ejection, spontaneous external bleeding, blood strangury, edema, ascites, carcinoma. Isolated compounds: 3223, 9831, 10028, 10829, 18853, 19582, 19587, 22718.
- T5836 *Scutellaria discolor* (Lamiaceae); ZI BEI HUANG QIN; Discolored Skullcap\*. Used part: whole herb. TCM Effects: To resolve exterior and abate fever, relieve cough, clear heat and resolve toxin. TCM Indications: Common cold with fever, swelling pain in throat, vomiting diarrhea with abdominal pain, vacuity taxation cough, heat toxin sore and welling abscess, otitis media. Isolated compounds: 10028, 15815.
- T5837 *Scutellaria epilobifolia* (Lamiaceae); LIU YE CAI HUANG QIN; Willowweedleaf Skullcap. Isolated compounds: 15815.
- T5838 *Scutellaria galericulata* (Lamiaceae); BING TOU CAO; Galericulate Skullcap. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and free strangury, quicken blood and dissipate stasis. TCM Indications: Heat strangury, blood strangury,

- intestinal welling abscess, hepatitis, carcinoma, toxin swelling of sores, knocks and falls, poisonous insect stings. Isolated compounds: 8081.
- T5839 *Scutellaria hypericifolia* (Lamiaceae); CHUAN HUANG QIN; St. Johnswortleaf Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 2106, 16216, 21094, 22718, 22720.
- T5840 *Scutellaria indica* (Lamiaceae); HAN XIN CAO; Indian Skullcap. Used part: whole herb with root. TCM Effects: To clear heat and resolve toxin, quicken blood and relieve pain, stanch bleeding and disperse swelling. TCM Indications: Swollen welling abscess and toxin of clove, pulmonary welling abscess, intestinal welling abscess, scrofula, poisonous snake bite, lung heat cough asthma, toothache, throat impediment, sore pharynx, pain in sinews and bones, blood ejection, hemoptysis, hematochezia, knocks and falls, bleeding due to external injury, itchy skin. Isolated compounds: 11703, 19582.
- T5841 *Scutellaria likiangensis* (Lamiaceae); LI JIANG HUANG QIN; Likiang Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 16216, 22718.
- T5842 *Scutellaria przewalskii* (Lamiaceae); AI YE HUANG QIN; Przewalsk Skullcap. Isolated compounds: 9564.
- T5843 *Scutellaria rehderiana* (Lamiaceae); GAN SU HUANG QIN; Rehder Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 2106, 16216, 21094, 22718.  
*Scutellaria rivularis* = *Scutellaria barbata*
- T5844 *Scutellaria scordifolia* (Lamiaceae); BING TOU HUANG QIN; Twinflower Skullcap. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Hepatitis, cirrhosis with ascites, appendicitis, mastitis, snake or insect bites, knocks and falls. Isolated compounds: 2102, 2106.
- T5845 *Scutellaria viscidula* (Lamiaceae); ZHAN MAO HUANG QIN; Viscidhair Skullcap. Used part: root. TCM Effects: See *Scutellaria baicalensis*. TCM Indications: See *Scutellaria baicalensis*. Isolated compounds: 2102, 2106, 16216, 20009, 21094, 22718, 22720.
- T5846 *Scutia buxifolia* (Rhamnaceae); HUANG YANG YE DUI CI TENG; Boxleaf Scutia\*. Isolated compounds: 3962, 19589, 19590, 19591, 19592, 19593, 19594, 19595.
- T5847 *Securidaca inappendiculata* (Polygalaceae); CHAN YI TENG; Cicadawingvine. Used part: root. TCM Effects: To dispel wind and eliminate damp, dissipate stasis and relieve pain. TCM Indications: Knocks and falls, wind-damp bone pain, acute gastroenteritis, allergic dermatitis. Isolated compounds: 5845, 6012, 6013, 6182, 6183, 6357, 8306, 10046, 16109, 19643, 19645, 19646, 21791, 21792.
- T5848 *Securinega suffruticosa* (Euphorbiaceae); YI YE QIU; Suffrutescent Securinega. Used part: root and twig. TCM Effects: To dispel wind and quicken blood, boost kidney and strengthen sinews. TCM Indications: Neuralgia, recurrent neuritis, chronic ischiatitis, neurasthenia, depression, schizophrenia, senile dementia, wind-damp lumbago, numbness in limbs, impotence, child gan accumulation, facial paralysis, sequel of poliomyelitis. Isolated compounds: 940, 5712, 5738, 6044, 6045, 10052, 17214, 19639, 19640, 19641, 19642, 19644, 22529.
- T5849 *Sedum acre* (Crassulaceae); TAI JING TIAN; Biting Stonecrop. Isolated compounds: 2845, 12937, 16789, 19647, 19649.
- T5850 *Sedum aizoon* (Crassulaceae); FEI CAI; Aizoon Stonecrop. Used part: whole herb or root. TCM Effects: See *Sedum kamschaticum*. TCM Indications: See *Sedum kamschaticum*. Isolated compounds: 1618, 15177, 15179, 19649, 19650.
- T5851 *Sedum alfredii* [Syn. *Sedum formosanum*] (Crassulaceae); DONG NAN JING TIAN; Alfred Stonecrop. Used part: whole herb. TCM Effects: To clear heat and cool blood, resolve toxin and disperse swelling. TCM Indications: Blood ejection due to blood heat, spontaneous external bleeding, heat toxin swollen welling abscess. Isolated compounds: 12838.
- T5852 *Sedum bulbiferum* (Crassulaceae); XIAO JIAN CAO; Bulbiferous Stonecrop. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and stanch bleeding, interrupt malaria. TCM Indications: Heat toxin swollen welling abscess, gum swelling and pain, poisonous snake bite, bleeding due to blood heat, bleeding due to external injury, malaria. Isolated compounds: 1105, 1108.
- T5853 *Sedum cepaea* (Crassulaceae); XI PA JING TIAN; Cepaea Stonecrop\*. Isolated compounds: 19379.
- T5854 *Sedum ewersii* (Crassulaceae); YI WO SI JING TIAN; Ewers Stonecrop\*. Isolated compounds: 663.  
*Sedum formosanum* = *Sedum alfredii*
- T5855 *Sedum kamschaticum* (Crassulaceae); HENG GEN FEI CAI; Orange Stonecrop. Equivalent plant: *Sedum aizoon*. Used part: whole herb or root. TCM Effects: To dissipate stasis, stanch bleeding, quiet heart and spirit, resolve toxin. TCM Indications: Blood ejection, spontaneous external bleeding, hemoptysis, hematochezia, hematuria, flooding and spotting, bleeding due to external injury, knocks and falls, palpitation, insomnia, swollen welling abscess, sore and boil, burns and scalds, poisonous insect stings. Isolated compounds: 663, 8959, 8965, 11551, 14534, 15184.
- T5856 *Sedum lineare* [Syn. *Sedum obtuso-lineare*] (Crassulaceae); FO JIA CAO; Linear Stonecrop. Used part: stem-leaf. TCM Effects: To clear heat and resolve toxin, disinhibit damp, stanch bleeding. TCM Indications: Swelling pain in throat, red eyes with gall, heat toxin swollen welling abscess, clove sore, erysipelas, herpes zoster, burns and scalds, poisonous snake bites, jaundice, damp-heat dysentery, hematochezia, flooding and spotting, bleeding due to external injury, flat wart. Isolated compounds: 16211, 16212.  
*Sedum obtuso-lineare* = *Sedum lineare*
- T5857 *Sedum sarmentosum* (Crassulaceae); SHI ZHI JIA; Stringy Stonecrop. Used part: whole herb. TCM Effects: To clear heat, disperse swelling, resolve toxin. TCM Indications: Swelling pain in throat, acute icterohepatitis, mastitis, heat strangury, swollen welling abscess, burns and scalds, snake bite, insect bites. Isolated compounds: 11648, 11655, 12015, 14534, 18317, 19377, 19650.
- T5858 *Sedum* spp. (Crassulaceae). Isolated compounds: 19647.
- T5859 *Selaginella braunii* (Selaginellaceae); MAO ZHI JUAN BAI; Braun's Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, relieve cough. TCM Indications: Jaundice, dysentery, lung heat cough, burns and scalds. Isolated compounds: 1030, 4376,

8401.

- T5860 *Selaginella davidii* (Selaginellaceae); MAN SHENG JUAN BAI; David's Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, soothe sinews and quicken network vessels. TCM Indications: Hepatitis, diarrhea, rheumatic arthritis, scalds, bleeding due to external injury. Isolated compounds: 1030, 4376.
- T5861 *Selaginella doederleinii* (Selaginellaceae); DA YE CAI; Doederlein's Spikemoss. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp. TCM Indications: Swelling pain in throat, red eyes with gall, lung heat cough, mastitis, damp-heat jaundice, wind-damp impediment pain, bleeding due to external injury. Isolated compounds: 1030, 6547, 9473, 9647, 9648, 9649, 14797, 18865, 21192.
- T5862 *Selaginella involvens* (Selaginellaceae); YAN ZHOU JUAN BAI; Involute Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, relieve cough, stanch bleeding, resolve toxin. TCM Indications: Damp-heat jaundice, dysentery, edema, ascites, strangury syndrome, phlegm-damp cough, hemoptysis, blood ejection, hematochezia, flooding and spotting, bleeding due to external injury, mammary welling abscess, scrofula, hemorrhoids, scalds. Isolated compounds: 1030, 4376, 21504, 21505, 21506.
- T5863 *Selaginella moellendorffii* (Selaginellaceae); JIANG NAN JUAN BAI; Moellendorff Spikemoss. Used part: whole herb. TCM Effects: To stanch bleeding, clear heat, disinhibit damp. TCM Indications: Lung heat hemoptysis, blood ejection, spontaneous external bleeding, bloody stool, bleeding hemorrhoids, bleeding due to external injury, fever, infant fright wind, damp-heat jaundice, strangury, edema, burns and scalds. Isolated compounds: 1030, 4376.
- T5864 *Selaginella omeiensis* (Selaginellaceae); E MEI JUAN BAI; Emei Spikemoss\*. Isolated compounds: 1030, 4376.
- T5865 *Selaginella pulvinata* (Selaginellaceae); DIAN ZHUANG JUAN BAI; Cushion-shaped Spikemoss. Used part: dried whole herb. TCM Effects: See *Selaginella tamariscina*. TCM Indications: See *Selaginella tamariscina*. Isolated compounds: 1030, 4376.
- T5866 *Selaginella sanguinolenta* (Selaginellaceae); YUAN ZHI JUAN BAI; Sanguineous Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and soothe sinews, stanch bleeding. TCM Indications: Damp-heat dysentery, knocks and falls, bleeding due to internal damage, bleeding due to external injury, burns and scalds. Isolated compounds: 1030, 8401.
- T5867 *Selaginella sinensis* (Selaginellaceae); ZHONG HUA JUAN BAI; Chinese Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, stanch bleeding. TCM Indications: Jaundice hepatitis, cholecystitis, nephritis, dysentery, eczema of lower limb, burns and scalds, bleeding due to external injury. Isolated compounds: 1030, 4376.
- T5868 *Selaginella stantoniana* (Selaginellaceae); HAN SHENG JUAN BAI; Staunton's Spikemoss. Used part: whole herb. TCM Effects: To dissipate stasis and relieve pain, cool blood and stanch bleeding. TCM Indications: Knocks and falls, static blood pain, bloody stool, bloody urine, endometriorrhagia. Isolated compounds: 1030, 4376, 8401.
- T5869 *Selaginella tamariscina* (Selaginellaceae); JUAN BAI; Tamariskoid Spikemoss. Equivalent plant: *Selaginella pulvinata*. Used part: dried whole herb. TCM Effects: To quicken blood and free menstruation (raw), transform stasis and stanch bleeding (scorch-fry). TCM Indications: Amenorrhea, concretion and conglomeration, knocks and falls, abdominal pain, asthma (raw), blood ejection, hematuria, hematochezia, prolapse of rectum (scorch-fry). Isolated compounds: 618, 1030, 1476, 4376, 5601, 9543, 11353, 20107, 20653, 20654, 20655, 21504, 21505, 21506.
- T5870 *Selaginella uncinata* (Selaginellaceae); CUI YUN CAO; Hooked Spikemoss. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, resolve toxin, stanch bleeding. TCM Indications: Jaundice, dysentery, diarrhea, edema, strangury, impediment pain in sinew and bone, blood ejection, coughing of blood, hematochezia, bleeding due to external injury, hemorrhoids and fistulas, burns and scalds, snake bite. Isolated compounds: 1030, 4376, 6167, 9543, 22215, 22216.
- T5871 *Selenarctos thibetanus*; *Ursus arctos* (Ursidae); XIONG DAN; Bear Gall. Used part: gall bladder. TCM Effects: To clear heat and resolve toxin, calm liver and brighten eyes, stanch bleeding and kill worms. TCM Indications: Fright wind, epilepsy, convulsion due to liver heat and liver wind, swollen pain in red eyes due to liver heat, aversion to light, eye screen, swelling pain of welling abscess and sore, swelling pain from hemorrhoids. Isolated compounds: 351, 3511, 3588, 5161, 20733, 20734, 20735, 22269.
- T5872 *Selenarctos thibetanus*; *Ursus arctos* (Ursidae); XIONG ZHANG; Bear's Paw. Used part: paw. TCM Effects: To supplement *qi* and blood, dispel wind and eliminate impediment, fortify spleen and stomach. TCM Indications: Spleen-stomach vacuity, vacuity detriment. Isolated compounds: 16480, 16481.
- T5873 *Semecarpus heterophylla* (Anacardiaceae); YI YE ROU TUO GUO; Heteroleaf Markingnut\*. Isolated compounds: 16622.
- T5874 *Senecio abrotanifolius* (Asteraceae); SONG YE QIAN LI GUANG; Pineleaf Groundsel. Isolated compounds: 11807.
- T5875 *Senecio adnatus* (Asteraceae); TIE SHENG QIAN LI GUANG; Adnate Groundsel\*. Isolated compounds: 17546.
- T5876 *Senecio aegypticus* (Asteraceae); AI JI QIAN LI GUANG; Egyptian Groundsel. Isolated compounds: 18842.
- T5877 *Senecio aetnensis* (Asteraceae). Isolated compounds: 19698.
- T5878 *Senecio alpinus* (Asteraceae); YA KE BEI QIAN LI GUANG; Alpine Groundsel\*. Isolated compounds: 11091, 11809.
- T5879 *Senecio ambrosioides* (Asteraceae); TUN CAO QIAN LI GUANG; Ragweed Groundsel\*. Isolated compounds: 18842.
- T5880 *Senecio angulatus* (Asteraceae); LENG JIAO QIAN LI GUANG; Angulate Groundsel\*. Isolated compounds: 1242.
- T5881 *Senecio brasiliensis* (Asteraceae); BA XI QIAN LI GUANG; Brazilian Groundsel\*. Isolated compounds: 11091.
- T5882 *Senecio bupleuroides* (Asteraceae); CHAI HU ZHUANG QIAN LI GUANG; Thorowax-like Groundsel\*. Isolated compounds: 11189.
- T5883 *Senecio cannabifolius* (Asteraceae); MA YE QIAN LI GUANG; Hempleaf Groundsel. Used part: whole herb with root. TCM Effects: To dissipate stasis, stanch bleeding, relieve pain. TCM Indications: Knocks and falls, static blood swelling pain, bleeding due to external injury. Isolated compounds: 3085, 3086, 5800, 9997.
- Senecio chinensis* = *Senecio scandens*

- T5884 *Senecio chrysanthemoides* (Asteraceae); TU SAN QI; Chrusanthemum-like Groundsel. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and disperse swelling. TCM Indications: Toxin swelling of sores, painful swelling from knocks and falls. Isolated compounds: 19712.
- T5885 *Senecio cineraria* (Asteraceae); YIN BAI QIAN LI GUANG; Silver Ragwort. Isolated compounds: 11809.  
*Senecio dictyoneurus* = *Ligularia dictyoneura*
- T5886 *Senecio eremophilus* (Asteraceae); SHA SHENG QIAN LI GUANG; Desertliving Groundsel\*. Isolated compounds: 18842.
- T5887 *Senecio faberi* (Asteraceae); MI SAN QIAN LI GUANG; Faber Groundsel. Isolated compounds: 11091.
- T5888 *Senecio flavus* (Asteraceae); HUANG SE QIAN LI GUANG; Yellow Groundsel\*. Isolated compounds: 7164, 7656, 14197, 16324, 16378, 19708.
- T5889 *Senecio integerrimus* (Asteraceae); QUAN YUAN QIAN LI GUANG; Entire Groundsel. Isolated compounds: 11091.  
*Senecio integrifolius* var. *fauriei* = *Tephrosia kirilowii*
- T5890 *Senecio jacobaea* (Asteraceae); CAO DIAN QIAN LI GUANG; Ragwort. Isolated compounds: 11809, 19706, 19712, 19731.  
*Senecio japonica* = *Ligularia japonica*
- T5891 *Senecio longifolius* (Asteraceae); CHANG YE QIAN LI GUANG; Longleaf Groundsel\*. Isolated compounds: 11189, 17776.
- T5892 *Senecio nemorensis* (Asteraceae); HUANG WAN; Shady Groundsel. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Dysentery, enteritis, hepatitis, conjunctivitis, otitis media, welling abscess and boil, toxin of clove sore. Isolated compounds: 4547, 4564, 13320, 19388.
- T5893 *Senecio nudicaulis* (Asteraceae); ZI BEI TIAN KUI CAO; Nudicaulous Groundsel Herb. Used part: whole herb. TCM Effects: To quicken blood and regulate menstruation. TCM Indications: Menstrual disorder, postpartum abdominal pain, knocks and falls. Isolated compounds: 13457.
- T5894 *Senecio oryzetorum* (Asteraceae); DA BAI DING CAO; Field Groundsel. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: White mouth sore in children, clove sore. Isolated compounds: 7821, 12535, 17546, 18305, 18316, 18667, 19388, 19706, 19712.
- T5895 *Senecio paucicaucylatus* (Asteraceae); SHAO FU E QIAN LI GUANG; Fewcalycle Groundsel\*. Isolated compounds: 11189.
- T5896 *Senecio phillicicus* (Asteraceae); FEI LV BIN QIAN LI GUANG; Philippine Groundsel\*. Isolated compounds: 18667, 19712.
- T5897 *Senecio platyphyllus* (Asteraceae); KUAN YE QIAN LI GUANG; Broadleaf Groundsel\*. Isolated compounds: 17546, 19712.
- T5898 *Senecio polyodon* (Asteraceae); DUO CHI QIAN LI GUANG; Manytoothed Groundsel\*. Isolated compounds: 11591.
- T5899 *Senecio pseudoorientalis* (Asteraceae); JIA DONG FANG QIAN LI GUANG; Pseud-oriental Groundsel\*. Isolated compounds: 9318.
- T5900 *Senecio pyramidatus* (Asteraceae); JIN ZI TA XING QIAN LI GUANG; Pyramidal Groundsel\*. Isolated compounds: 2119.
- T5901 *Senecio renardii* (Asteraceae); LEI SHI QIAN LI GUANG; Renard Groundsel\*. Isolated compounds: 19731.
- T5902 *Senecio retrorsus* (Asteraceae); WAN QU QIAN LI GUANG; Retrorse Groundsel\*. Isolated compounds: 18667.
- T5903 *Senecio riddellii* (Asteraceae); RUI DE QIAN LI GUANG; Riddell Groundsel. Isolated compounds: 18842.
- T5904 *Senecio rivularis* (Asteraceae); XI QIAN LI GUANG; Rivulet Groundsel\*. Isolated compounds: 18854.
- T5905 *Senecio rosmarinifolius* (Asteraceae); MI DIE XIANG YE QIAN LI GUANG; Rosmarin-leaf Groundsel\*. Isolated compounds: 18926.
- T5906 *Senecio sarracenicus* (Asteraceae); PING QIAN LI GUANG; Bottle Groundsel\*. Isolated compounds: 19388.
- T5907 *Senecio scandens* [Syn. *Senecio chinensis*] (Asteraceae); QIAN LI GUANG; Climbing Groundsel. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, eliminate screen and brighten eyes, kill worms and relieve itch. TCM Indications: Wind-fire eye, conjunctivitis, eye screen, typhoid fever, acute bacillary dysentery, pneumonia, lobar pneumonia, tonsillitis, appendicitis, bronchitis, enteritis, jaundice, influenza, toxemia, hematosepsis, swelling toxin of welling abscess and boil, dry lichen, damp lichen, erysipelas, eczema, scalds, trichomoniasis. Isolated compounds: 3592, 7821, 8012, 9740, 10608.
- T5908 *Senecio sceleratus* (Asteraceae); LA QIAN LI GUANG; Smirch Groundsel\*. Isolated compounds: 19461.
- T5909 *Senecio selloi* (Asteraceae). Isolated compounds: 7087, 7088.
- T5910 *Senecio* sp. (Asteraceae). Isolated compounds: 10775.
- T5911 *Senecio* spp. (Asteraceae). Isolated compounds: 3551, 17546.
- T5912 *Senecio squalidus* (Asteraceae); NIU JIN QIAN LI GUANG; Oxford Ragwort. Isolated compounds: 11091.
- T5913 *Senecio sylvaticus* (Asteraceae); YE SHENG QIAN LI GUANG; Heath Groundsel. Isolated compounds: 19388.
- T5914 *Senecio vernalis* (Asteraceae); CHUN QIAN LI GUANG; Eastern Groundsel. Isolated compounds: 19714, 19731.
- T5915 *Senecio vulgaris* (Asteraceae); OU ZHOU QIAN LI GUANG; Common Groundsel. Isolated compounds: 7821, 18667, 18842, 19706, 19712.
- T5916 *Senna spectabilis* (Fabaceae); ZHUANG GUAN FAN XIE; Spectacular Senna\*. Isolated compounds: 2260, 3292, 5327, 10510, 10511.
- T5917 *Sequoia gigantea* (Taxodiaceae); JU SHAN; Giant Sequoia. Isolated compounds: 17181.
- T5918 *Sequoia sempervirens* (Taxodiaceae); BEI MEI HONG SHAN; Redwood. Isolated compounds: 17181.
- T5919 *Sequoia* sp. (Taxodiaceae). Isolated compounds: 3983.
- T5920 *Seriphidium cinum* [Syn. *Artemisia cina*] (Asteraceae); HUI HAO; Chinese Seriphidium. Used part: inflorescence and leaf. TCM Effects: To kill worms. TCM Indications: Ascariasis, oxyuria disease. Isolated compounds: 1798, 3760, 19313.
- T5921 *Seriphidium finitum* [Syn. *Artemisia finita*] (Asteraceae); DONG BEI HUI HAO; Northeast Seriphidium. Used part: flower. TCM Effects: To expel worms. TCM Indications: Ascariasis, oxyuria disease. Isolated compounds: 7801, 19314.
- T5922 *Serratula strangulata* (Asteraceae); YI BAO MA HUA TOU; Contracted Sawwort. Isolated compounds: 3390, 6427, 6429, 6430, 10065.
- T5923 *Sesamum indicum* (Pedaliaceae); HU MA GEN; Oriental Sesame Root.

- Isolated compounds: 1368, 1369, 1370, 3572, 7200, 10709, 14661, 14663.
- T5924 *Sesamum indicum* (Pedaliaceae); HU MA YE; Oriental Sesame Leaf. Used part: leaf. TCM Effects: To boost *qi*, supplement brain and marrow, strengthen sinews and bones. TCM Indications: Wind-cold-damp impediment, flooding, blood ejection, damp itchy in genitals. Isolated compounds: 3052, 16757, 16758.
- T5925 *Sesamum indicum* [Syn. *Sesamum orientale*] (Pedaliaceae); BAI ZHI MA; Oriental Sesame (white seed). Used part: white seed. TCM Effects: To supplement liver and boost kidney, nourish blood and boost essence, moisten intestines and free stool. TCM Indications: Lassitude in lumbar and knees, premature graying in beard and hair, dry cracked skin, intestinal dry and constipation, scant breast milk, welling abscess and eczema, scrofula, burns and scalds, hemorrhoids. Isolated compounds: 3052, 19779.
- T5927 *Sesamum indicum* [Syn. *Sesamum orientale*] (Pedaliaceae); HEI ZHI MA; Oriental Sesame (black seed). Used part: black seed. TCM Effects: To supplement liver and kidney, boost essence and blood, moisten intestines. TCM Indications: Dizziness, tinnitus and deafness, premature graying in beard and hair, hair loss during convalescence, intestinal dry and constipation. Isolated compounds: 3052, 3774, 7853, 16066, 19777, 19779, 19780, 19781.  
*Sesamum orientale* = *Sesamum indicum*
- T5926 *Sesbania sesban* (Fabaceae); AI JI TIAN JING; Indian Sesbania. Isolated compounds: 18229.
- T5928 *Seseli campestre* (Apiaceae); PING DI XI FENG QIN; Campestral Seseli\*. Isolated compounds: 17757.
- T5929 *Seseli ericephalum* (Apiaceae); MIAN MAO XIE HAO; Woolly Seseli\*. Isolated compounds: 18165.
- T5930 *Seseli grandivittatum* (Apiaceae); DA TIAO WEN XIE HAO; Bigstreak Seseli\*. Isolated compounds: 4863.
- T5931 *Seseli incanum* (Apiaceae); HUI BAI XIE HAO; Greywhite Seseli\*. Isolated compounds: 6507.
- T5932 *Seseli indicum* (Apiaceae); YIN DU XIE HAO; Indian Seseli\*. Isolated compounds: 19784.
- T5933 *Seseli libanotis* (Apiaceae); LI BA NEN XIE HAO; Moon-carrot. Isolated compounds: 1960, 6507.
- T5934 *Seseli meirei* (Apiaceae); SAN YE FANG FENG; Bambooleaf Seseli. Equivalent plant: *Seseli yunnanense*. Used part: root. TCM Effects: To dispel wind and overcome damp, relieve pain and check tetany. TCM Indications: Common cold, headache, toothache, distending pain in stomach duct, diarrhea, wind-damp impediment pain, paralysis, tetanus, fright wind, wind papules, eczema, swelling of sores. Isolated compounds: 2309.
- T5935 *Seseli* sp. (Apiaceae). Isolated compounds: 2309.
- T5936 *Seseli tortuosum* (Apiaceae); XUAN NIU XIE HAO; Tortuous Seseli\*. Isolated compounds: 17764, 19227.
- T5937 *Seseli yunnanense* (Apiaceae); SONG YE FANG FENG; Yunnan Seseli. Used part: root. TCM Effects: See *Seseli meirei*. TCM Indications: See *Seseli meirei*. Isolated compounds: 7707, 11001.
- T5938 *Setaria italica* (Poaceae); SU MI; Foxtail Millet. Used part: kernel. TCM Effects: To harmonize center, boost kidney, eliminate heat, resolve toxin. TCM Indications: Spleen-stomach vacuity heat, stomach reflux vomiting, reduced food intake with abdominal distention, diabetes mellitus, diarrhea, scalds. Isolated compounds: 1048, 4650, 5509, 8809, 13126.
- T5939 *Shiraia bambusicola* (Clavicipitaceae); ZHU XUANG; Bamboo Yellow\*. Used part: stroma and spore. TCM Effects: To transform phlegm and relieve cough, quicken blood and dispel wind, disinherit damp. TCM Indications: Cough and abundant phlegm, pertussis, vaginal discharge, stomachache, wind-damp impediment pain, infant fright wind, knocks and falls. Isolated compounds: 19834, 19835, 19836.
- T5940 *Sickingia tinctoria* (Rubiaceae); RAN LIAO SI SHI MU. Isolated compounds: 16152.
- T5941 *Sickingia williamsii* (Rubiaceae); WEI LIAN SI SHI MU. Isolated compounds: 16152.
- T5942 *Sida acuta* (Malvaceae); HUANG HUA REN; Acute Sida. Used part: leaf or root. TCM Effects: To clear damp heat, resolve toxin and disperse swelling, quicken blood and relieve pain. TCM Indications: Damp-heat diarrhea dysentery, mammary welling abscess, hemorrhoids, toxin swelling of sores, knocks and falls, fracture, bleeding due to external injury. Isolated compounds: 85, 1380, 1381, 1386, 1425, 4282, 6815, 7788, 12953, 19542, 22615.
- T5943 *Sida cordifolia* (Malvaceae); HUANG HUA ZI; Cordateleaf Sida. Used part: leaf or root. TCM Effects: To clear heat and disinherit damp, relieve cough, resolve toxin and eliminate welling abscess. TCM Indications: Damp-heat jaundice, dysentery, diarrhea, strangury, fever and cough, asthma, swelling toxin of welling abscess and sore. Isolated compounds: 14795, 16770, 17083, 18024, 22349, 22350.
- T5944 *Sida spinosa* (Malvaceae); DUO CI HUANG HUA REN; Spiny Sida\*. Isolated compounds: 8812, 10204.
- T5945 *Sideritis moorei* (Lamiaceae); MU ER DU MA CAO; Moor Sideritis\*. Isolated compounds: 168, 169, 296, 297, 298, 299, 5940.
- T5946 *Sideritis ozturkii* (Lamiaceae). Isolated compounds: 580, 6851, 7151, 12725, 12878, 13580, 16482, 16483, 16484, 19873, 19874.
- T5947 *Sideritis* sp. (Lamiaceae). Isolated compounds: 3741.
- T5948 *Sideritis* spp. (Lamiaceae). Isolated compounds: 22768.  
*Siegesbeckia glabrescens* = *Siegesbeckia orientalis* var. *glabrescens*
- T5949 *Siegesbeckia gummifer* (Asteraceae); JIAO XI XIAN; Gummy St. Paulswort\*. Isolated compounds: 5930.
- T5950 *Siegesbeckia orientalis* (Asteraceae); XI XIAN; Common St. Paulswort. Equivalent plant: *Siegesbeckia orientalis* var. *pubescens*, *Siegesbeckia orientalis* var. *glabrescens*. Used part: aerial parts. TCM Effects: To dispel wind-damp, free channels and network vessels, clear heat and resolve toxin. TCM Indications: Wind-damp impediment pain, lassitude in lumbus and knees, hemiplegia, hypertension, malaria, jaundice, swelling toxin of welling abscess and sore, wind papules, damp sore, animal and insect bites. Isolated compounds: 445, 2852, 4661, 4662, 5955, 7215, 7216, 9755, 10920, 10921, 11623, 12230, 16186, 16187, 16188, 16196, 16320, 16434, 16435, 16436, 18175, 18176, 18177, 18178, 19875, 19876, 19878, 19879, 20369, 21149, 21150.
- T5951 *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*] (Asteraceae); MAO GENG XI XIAN; Hairstalk St. Paulswort. Used part: aerial parts. TCM Effects: See *Siegesbeckia*

- orientalis*. TCM Indications: See *Siegesbeckia orientalis*. Isolated compounds: 445, 7768, 9370, 15390, 20444.
- T5952 *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*] (Asteraceae); XIAN GENG XI XIAN; Glandularstalk St. Paulswort. Used part: aerial parts. TCM Effects: See *Siegesbeckia orientalis*. TCM Indications: See *Siegesbeckia orientalis*. Isolated compounds: 2481, 4680, 5930, 10277, 10289, 12175, 12196, 12230, 18175, 18176, 18177, 18178, 18179, 19875, 19876, 19877, 19880, 19983, 21756. *Siegesbeckia pubescens* = *Siegesbeckia orientalis* var. *pubescens*
- T5953 *Silene firma* (Caryophyllaceae); YING YE NV LOU CAI; Robust Silene\*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, regulate menstruation, disinhibit urine. TCM Indications: Swelling pain in throat, otitis media, inhibited urination. Isolated compounds: 13657.
- T5954 *Silene fortunei* (Caryophyllaceae); YING ZI CAO; Catch-fly. Used part: whole herb with root. TCM Effects: To clear heat and disinhibit damp, quicken blood and resolve toxin. TCM Indications: Dysentery, enteritis, heat strangury, vaginal discharge, swelling pain in throat, taxation damage fever, knocks and falls, poisonous snake bites. Isolated compounds: 8059, 8060, 8061, 10061.
- T5955 *Silene jennisensis* (Caryophyllaceae); HAN MAI PING CAO; Dry Silene. Used part: root. TCM Effects: See *Gypsophila pacifica*. TCM Indications: See *Gypsophila pacifica*. Isolated compounds: 8056, 18418.
- T5956 *Siler trilobum*. Isolated compounds: 21889.
- T5957 *Silybum marianum* (Asteraceae); SHUI FEI JI; St. Marys. Used part: achene. TCM Effects: To clear heat and disinhibit damp, course liver and disinhibit gallbladder. TCM Indications: Acute hepatitis, chronic hepatitis, cirrhosis, fatty liver, gallstones, cholangitis. Isolated compounds: 1494, 5789, 11714, 11715, 13563, 13564, 13565, 19893, 19895, 19896, 19897, 19898, 19899, 22158.
- T5958 *Sinapis alba* [Syn. *Brassica alba*; *Brassica hirta*] (Brassicaceae); BAI JIE ZI; White Mustard Seed. Used part: seed. TCM Effects: To transform phlegm and expel rheum, dissipate binds and disperse swelling. TCM Indications: Cough and asthma with abundant phlegm, fullness in chest and rib-side pain, numbness in limbs, swelling pain in joints, damp phlegm streaming sore, swelling toxin of flat abscess. Isolated compounds: 8599, 9822, 16842, 16852, 16859, 19909, 19917, 19983.
- T5959 *Sinapis arvensis* (Brassicaceae); YE OU BAI JIE; Charlock. Isolated compounds: 19909.
- T5960 *Sinoadina racemosa* [Syn. *Adina racemosa*] (Rubiaceae); JI ZI MU; Racemose Adina. Isolated compounds: 636, 637, 638, 639, 640, 2789, 3184, 3551, 6953, 7040, 7425, 7774, 8977, 8978, 10887, 12020, 12072, 12073, 12074, 12949, 12950, 14224, 15525, 18317, 18380, 18381, 18382, 18383, 18384, 18390, 18441, 18918, 19087, 19623, 19624, 19625, 19626, 19636, 20263, 20390, 20503, 21634, 22496, 22606.
- T5961 *Sinocalamus oldhami* (Poaceae); LV SUN PIAN; Oldham Bamboo Shoot. Used part: shoot. TCM Effects: To transform phlegm and calm asthma. TCM Indications: Cough and asthma with abundant phlegm. Isolated compounds: 2027, 2028, 11031.
- T5962 *Sinocrassula asclepiadea* (Crassulaceae); SI MA LI JIN SHI LIAN. Isolated compounds: 19936, 19937, 19938, 19939, 19940, 19941, 19942, 19943, 19944, 19945, 19946.
- T5963 *Sinodielsia yunnanensis* (Apiaceae); DIAN QIN; Common Sinodielsia. Used part: root. TCM Effects: To effuse exterior, dispel wind, relieve pain, disinhibit urine. TCM Indications: Common cold, headache, cough, wind-damp impediment pain, wind water edema. Isolated compounds: 2309, 7707, 9785, 19542, 19947, 19948, 19949, 19950, 19951, 19952, 19953, 19954.
- T5964 *Sinomenium acutum* (Menispermaceae); QING FENG TENG; Orientvine. Used part: stem. TCM Effects: To dispel wind and free network vessels, dispel damp and relieve pain. TCM Indications: Wind-damp impediment pain, pain from arthritis, swelling in joints, paralytic and pruritus. Isolated compounds: 602, 603, 6512, 11717, 13374, 14484, 14827, 19200, 19908, 19955, 19983, 20322, 20369, 20556, 22100. *Sinopodophyllum emodii* = *Podophyllum emodii*
- T5965 *Siparuna pauciflora* (Monimiaceae); SHAO HUA XI PA MU; Limoncillo (in Costa Rica). Isolated compounds: 12573, 19961, 19962, 19963.
- T5966 *Siphonostegia chinensis* (Scrophulariaceae); YIN XING CAO; Chinese Siphonostegia. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, quicken blood and dispel stasis. TCM Indications: Jaundice, inhibited urination, abdominal distention with edema, stasis pain from knocks and falls, blood dysentery, blood strangury, vaginal discharge, menstrual disorder, concretion conglomeration accumulation and gathering, postpartum abdominal pain. Isolated compounds: 7521, 11305, 12952.
- T5967 *Siraitia grosvenorii* [Syn. *Momordica grosvenorii*] (Cucurbitaceae); LUO HAN GUO; Grosvenor Siraitia. Used part: fruit. TCM Effects: To clear heat and moisten lung, lubricate intestines and free stool. TCM Indications: Lung heat dry cough, common cold, throat pain, laryngitis, aphonia due to throat pain, intestinal dry and constipation. Isolated compounds: 9012, 19971, 19972, 19973, 19974, 19975. *Sisymbrium dublium* = *Rorippa montana*
- T5968 *Sisymbrium officinale* (Brassicaceae); ZUAN GUO SUAN JIE; Hedge Mustard. Isolated compounds: 15400.
- T5969 *Sium latifolium* (Apiaceae); OU ZE QIN; Greater Water-parsnip. Used part: whole herb with root. TCM Effects: To dispel wind and relieve pain, lower blood pressure. TCM Indications: Common cold, headache, hypertension. Isolated compounds: 16930.
- T5970 *Skimmia japonica* (Rutaceae); XIANG YIN YU; Japanese Skimmia. Isolated compounds: 20002, 20003.
- T5971 *Skimmia laureola* (Rutaceae); GUANG RONG YIN YU; Laureate Skimmia\*. Isolated compounds: 3464, 9419, 20003.
- T5972 *Skimmia reevesiana* (Rutaceae); YIN YU; Reeves Skimmia. Used part: stem-leaf. TCM Effects: To dispel wind and overcome damp. TCM Indications: Wind-damp impediment pain, hypertonicity of limbs, weakness of legs. Isolated compounds: 18568, 18569, 20002, 20003.
- T5973 *Smilax aristolochiaefolia* (Liliaceae); HUI BA QIA; Grey Greenbrier\*. Isolated compounds: 16666, 19389.
- T5974 *Smilax aspera* (Liliaceae); SUI BA QIA; Eurasia Greenbrier. Isolated compounds: 15729.
- T5975 *Smilax bockii* (Liliaceae); XI NAN BA QIA; *Smilax bockii*. Used part:

- rhizome. TCM Effects: To dispel wind and eliminate damp, quicken blood and dispel stasis, resolve toxin and dissipate binds. TCM Indications: Wind-damp impediment, painful swelling from knocks and falls, clove sore scrofula. Isolated compounds: 2524, 2525.
- T5976 *Smilax china* [Syn. *Smilax japonica*] (Liliaceae); BA QIA; Chinaroot Greenbrier. Used part: rhizome. TCM Effects: To dispel wind and disinhibit damp, resolve toxin and eliminate welling abscess. TCM Indications: Wind-damp impediment pain, strangury-turbidity, vaginal discharge, dysentery, diarrhea, swelling toxin of welling abscess and sore, intractable lichen, burns and scalds. Isolated compounds: 5659, 8968, 15465, 15466, 18056, 19983.
- T5977 *Smilax glabra* (Liliaceae); TU FU LING; Glabrous Greenbrier. Equivalent plant: *Smilax menispermoides*. Used part: rhizome. TCM Effects: To eliminate damp, resolve toxin, free joints. TCM Indications: Damp-heat with strangury turbidity, vaginal discharge, swollen welling abscess, scrofula, scab and lichen, syphilis, mercurial poisoning. Isolated compounds: 1928, 2924, 5659, 5699, 5984, 11241, 11411, 20020, 20021, 20022, 20023, 20024, 20029, 20566, 21682, 22101.
- T5978 *Smilax glauco-china* (Liliaceae); HEI GUO BA QIA; Blackfruit Greenbrier. Used part: rhizome or tender leaf. TCM Effects: To dispel wind, clear heat, disinhibit damp, resolve toxin. TCM Indications: Wind-damp impediment, pain in lumbus and legs, knocks and falls, dribbling and inhibited voidings of urination, scrofula, swelling toxin of welling abscess and sore, ulcer of lower limb. Isolated compounds: 7748.
- Smilax japonica* = *Smilax china*
- T5979 *Smilax lebrunii* (Liliaceae); CU CAO BA QIA; Lebrun Greenbrier. Isolated compounds: 20236.
- T5980 *Smilax menispermoides* (Liliaceae); FANG JI YE BA QIA; Gansu Greenbrier. Used part: rhizome. TCM Effects: See *Smilax glabra*. TCM Indications: See *Smilax glabra*. Isolated compounds: 6440, 6441, 17278, 18643.
- T5981 *Smilax riparia* (Liliaceae); NIU WEI CAI; Oxtail Greenbrier. Used part: rhizome and root. TCM Effects: To dispel wind-damp, free channels and network vessels, dispel phlegm and relieve cough. TCM Indications: Wind-damp impediment, taxation damage and lumbago, knocks and falls, cough and asthma. Isolated compounds: 15465, 15466.
- T5982 *Smilax sieboldii* (Liliaceae); NIAN YU XU; Siebold Greenbrier. Equivalent plant: *Smilax stans*. Used part: rhizome and root. TCM Effects: To dispel wind and disinhibit damp, quicken blood and free network vessels, resolve toxin and dissipate binds. TCM Indications: Wind-damp impediment pain, sore and boil, toxin swelling, scrofula. Isolated compounds: 12591, 15463, 21383.
- T5983 *Smilax* sp. (Liliaceae). Isolated compounds: 8834.
- T5984 *Smilax stans* [Syn. *Smilax vaginata* var. *stans*] (Liliaceae); QIAO BING BA QIA; Sheathstipe Greenbrier. Used part: rhizome and root. TCM Effects: See *Smilax sieboldii*. TCM Indications: See *Smilax sieboldii*. Isolated compounds: 18056.
- Smilax vaginata* var. *stans* = *Smilax stans*
- T5985 *Smyrniopsis aucheri*. Isolated compounds: 15241.
- T5986 *Smyrniolum olusatrum* (Apiaceae); XIAO MEI WEI QIN. Isolated compounds: 194, 215, 5492, 5495, 5496, 5886, 5887.
- T5987 *Sobina chinensis* (Cupressaceae); HUI<sup>(4)</sup> YE; Chinese Juniper Leaf. Used part: leaf. TCM Effects: To expel wind and dissipate cold, quicken blood and resolve toxin. TCM Indications: Wind-cold common cold, pain in joints due to rheumatism, urticaria, toxin swelling. Isolated compounds: 1030, 9543.
- T5988 *Solanum abutiloides* (Solanaceae); MA ZHUANG QIE; Abutilon Nightshade\*. Isolated compounds: 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48.
- T5989 *Solanum aculeatissimum*‡ (Solanaceae); DING QIE; Aculeate Nightshade\*. Used part: whole herb. TCM Effects: To suppress cough and calm asthma, dissipate stasis and relieve pain. TCM Indications: Asthma, chronic bronchitis, stomachache, wind-damp pain, scrofula, cold suppurative sore, knocks and falls. Isolated compounds: 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 15855. ‡Note: same plant as T6014.
- T5990 *Solanum arundo* (Solanaceae); A LUN DUO QIE; Arundo Nightshade\*. Isolated compounds: 1822.
- T5991 *Solanum aviculare* [Syn. *Solanum laciniatum*] (Solanaceae); AO ZHOU QIE; Australian Nightshade. Isolated compounds: 16789, 20066, 20069.
- T5992 *Solanum berthaultii* (Solanaceae); BO SHI QIE; Berthault Nightshade\*. Isolated compounds: 7730.
- T5993 *Solanum capsicastrum* (Solanaceae); YE HAI JIAO; Twoflower Jerusalemcherry. Used part: whole herb. TCM Effects: To disperse accumulation, disinhibit diaphragm, precipitate heat toxin. TCM Indications: Rheumatism numbness, damp-heat itchy sore, clove sore, menstruant's morbidity. Isolated compounds: 3143, 20061.
- T5994 *Solanum chacoense* (Solanaceae); CHA QIE; Cha Nightshade\*. Isolated compounds: 3942, 5104.
- T5995 *Solanum commersonii* (Solanaceae); KE MO SEN QIE; Commerson Nightshade\*. Isolated compounds: 3942, 5104.
- T5996 *Solanum decemlineata* (Solanaceae); SHI XIAN QIE; Decaline Nightshade\*. Isolated compounds: 5104.
- T5997 *Solanum demissum* (Solanaceae); AI QIE; Dwarf Nightshade\*. Isolated compounds: 5104, 14235, 19982, 21434.
- T5998 *Solanum dulcamara* (Solanaceae); QIAN NIAN BU LAN XIN; Bitter Nightshade Fruit. Used part: whole herb. TCM Effects: To expel wind and eliminate damp, clear heat and resolve toxin. TCM Indications: Wind-damp pain, tetanus, swollen welling abscess, malign sore, scab sore, bleeding due to external injury. Isolated compounds: 3939, 4944, 10711, 10712, 10713, 10771, 10772, 13222, 13243, 20042, 20044, 20046, 20047, 20048, 20049, 20050, 20066, 20069, 21383, 21433, 22878.
- T5999 *Solanum incanum* (Solanaceae); HUI BAI QIE; Greywhite Nightshade\*. Isolated compounds: 20069.
- T6000 *Solanum indicum* (Solanaceae); TIAN QIE ZI; Indian Nightshade. Used part: fruit, seed and leaf. TCM Effects: To dispel wind and eliminate evil. TCM Indications: Toothache, headache, deep-source nasal congestion. Isolated compounds: 4189, 7788, 12488, 14698, 17973, 19542, 20043, 20066, 20070.
- T6001 *Solanum jasminoides* (Solanaceae); SU XIN YE BAI YING; Jasmine Nightshade. Isolated compounds: 20066, 20069.



- T6002 *Solanum juzepczukii* (Solanaceae); JU SHI QIE; Juzepczuk Nightshade\*. Isolated compounds: 5104.
- T6003 *Solanum khasianum* (Solanaceae); CI TIAN QIE; Khasi Nightshade Fruit. Used part: fruit. TCM Effects: To expel wind and relieve pain, clear heat and resolve toxin. TCM Indications: Wind-damp pain, bleeding due to external injury, nervous headache, stomachache, toothache, mastitis, epidemic parotitis. Isolated compounds: 7788, 20044, 20066, 20069.  
*Solanum laciniatum* = *Solanum aviculare*
- T6004 *Solanum laxum* (Solanaceae); XI SHU QIE; Lax Nightshade\*. Isolated compounds: 13022.
- T6005 *Solanum lyratum* (Solanaceae); BAI MAO TENG; Bittersweet. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, dispel wind and resolve toxin. TCM Indications: Malaria, jaundice, edema, strangury, pain in joints due to rheumatism, erysipelas, clove sore. Isolated compounds: 1898, 3939, 15464, 18724, 18725, 20042, 20044, 20052, 20053, 20054, 20055, 20069, 21384.
- T6006 *Solanum melongena* (Solanaceae); QIE YE; Garden Eggplant Leaf. Used part: leaf. TCM Effects: To dissipate blood and disperse swelling. TCM Indications: Blood strangury, blood dysentery, intestinal wind bleeding, swollen welling abscess, frostbite. Isolated compounds: 9568, 20066, 21662.
- T6007 *Solanum melongena* (Solanaceae); QIE ZI; Garden Eggplant. Used part: fruit. TCM Effects: To clear heat and quicken blood, disperse swelling and relieve pain. TCM Indications: Intestinal wind bleeding, heat toxin swollen welling abscess. Isolated compounds: 617, 5010, 5027, 12488, 13016, 15289, 17973, 19838, 20069, 21383, 21662.
- T6008 *Solanum nigrum* (Solanaceae); LONG KUI; Black Nightshade. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, quicken blood and disperse swelling. TCM Indications: Clove sore, swollen welling abscess, erysipelas, sprain from knocks and falls, mastitis, cervicitis, chronic bronchitis, chronic trachitis, acute nephritis, dysentery, infection of skin, leukorrhea, scant urine in children. Isolated compounds: 8817, 20044, 20056, 20060, 20066, 20069, 21383.
- T6009 *Solanum pseudo-capsicum* (Solanaceae); YU SHAN HU GEN; Jerusalemcherry Root. Used part: root. TCM Effects: To relieve pain. TCM Indications: Taxation damage and lumbago. Isolated compounds: 20061.
- T6010 *Solanum pubescens* (Solanaceae); ROU MAO QIE; Pubescent Nightshade. Isolated compounds: 16498.
- T6011 *Solanum sarrachoides* (Solanaceae); YE GUO QIE; Leafy-fruited Nightshade. Isolated compounds: 12070.  
*Solanum sodomaeum* = *Solanum sodomeum*
- T6012 *Solanum sodomeum* [Syn. *Solanum sodomaeum*] (Solanaceae); SUO DUO MI QIE; Sodome Nightshade\*. Isolated compounds: 20068, 20069.
- T6013 *Solanum* sp. (Solanaceae). Isolated compounds: 20069.
- T6014 *Solanum surattense*† (Solanaceae); YE DIAN QIE; Soda-apple Nightshade. Used part: whole herb. TCM Effects: To suppress cough and calm asthma, dissipate stasis and relieve pain. TCM Indications: Asthma, chronic bronchitis, stomachache, wind-damp pain, scrofula, cold suppurative sore, knocks and falls. Isolated compounds: 20045, 20069. ‡Note: same plant as T5989.
- T6015 *Solanum torvum* (Solanaceae); SHUI QIE; Water Nightshade. Used part: root. TCM Effects: To quicken blood, dissipate stasis and relieve pain. TCM Indications: painful wound from knocks and falls, taxation damage in lumbar muscle, sand, stomachache, clove sore, swollen welling abscess. Isolated compounds: 11971, 16616, 19978, 19987, 20069, 21468, 21469, 21470, 21471, 21472, 21473, 22700, 22704.
- T6016 *Solanum tripartitum* (Solanaceae); SAN LIE QIE; Tripartite Nightshade\*. Isolated compounds: 20062, 20063.
- T6017 *Solanum tuberosum* (Solanaceae); MA LING SHU; Potato. Used part: tuber. TCM Effects: To harmonize stomach and fortify center, resolve toxin and disperse swelling. TCM Indications: Stomachache, epidemic parotitis, swollen welling abscess, eczema, scalds. Isolated compounds: 4135, 7781, 7782, 7788, 7789, 13016, 14235, 17913, 17914, 18849, 19982, 20056, 20060, 20070, 22058, 22080.
- T6018 *Solanum verbascifolium* (Solanaceae); YE YAN YE; Mullein Nightbrier Leaf. Used part: leaf. TCM Effects: To move qi-blood, disperse swelling toxin, relieve pain. TCM Indications: Yellow swelling, pain wind, flooding, painful swelling from knocks and falls, toothache, scrofula, welling abscess, eczema, dermatitis. Isolated compounds: 20069.
- T6019 *Solanum viarum* (Solanaceae); XIAO LU QIE; Viatic Nightshade\*. Isolated compounds: 20069.
- T6020 *Solanum xanthocarpum* (Solanaceae); HUANG GUO QIE; Yellowfruit Nightshade. Used part: root, fruit and seed. TCM Effects: To clear heat and disinhibit damp, disperse stasis and relieve pain. TCM Indications: Wind-damp impediment pain, toothache, painful swollen testes, welling abscess and boil. Isolated compounds: 663, 3221, 3241, 3242, 20069.
- T6021 *Solenanthes circinatus* (Boraginaceae); CHANG RUI LIU LI CAO; Circinate Solenanthes. Isolated compounds: 18847.
- T6022 *Solidago altissima* (Asteraceae); GAO YI ZHI HUANG HUA; Canadian Goldenrod. Isolated compounds: 232, 268, 269, 3835, 5792, 9751, 9752, 9753, 9920, 9921, 20071, 20169.  
*Solidago chinensis* = *Wedelia chinensis*  
*Solidago decurrens* = *Solidago virgaurea* var. *leiocarpa*
- T6023 *Solidago virgaurea* (Asteraceae); MAO GUO YI ZHI HUANG HUA; European Goldenrod. Used part: whole herb or root. TCM Effects: To course wind and clear heat, resolve toxin and disperse swelling. TCM Indications: Wind-heat common cold, swelling pain in throat, nephritis, cystitis, swollen welling abscess and toxin of clove, knocks and falls. Isolated compounds: 12608, 19087, 22526.
- T6024 *Solidago virgaurea* var. *leiocarpa* [Syn. *Solidago decurrens*] (Asteraceae); YI ZHI HUANG HUA; Common Goldenrod. Used part: whole herb. TCM Effects: To soothe wind and drain heat, resolve toxin and disperse swelling. TCM Indications: Wind-heat common cold, headache, swelling pain in throat, lung heat cough, jaundice, diarrhea, heat strangury, swollen welling abscess, sore and boil, poisonous snake bite. Isolated compounds: 2283, 2292, 2887, 4441, 13603, 13828, 13853, 13857, 14283, 18411.
- T6025 *Sonchus arvensis* (Asteraceae); NIU SHE TOU; Field Sowthistle. Used part: herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Dysentery, appendicitis, mastitis, white turbidity,

- hemorrhoids, emission, swelling toxin of sore and boil, burns and scalds. Isolated compounds: 1476, 11083, 11084, 11085, 13143, 13504.
- T6026 *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*] (Asteraceae); XU DUAN JU; Prickly Sowthistle. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, stanch bleeding. TCM Indications: Toxin swelling of sores, infantile cough asthma, tuberculosis and coughing of blood. Isolated compounds: 8615, 14110, 20706.  
*Sonchus oleraceus* var. *asper* = *Sonchus asper*
- T6027 *Sonchus* sp. (Asteraceae). Isolated compounds: 3635.
- T6028 *Sophora alopecuroides* (Fabaceae); KU DOU GEN; Foxtail-like Sophora Root\*. Used part: root. TCM Effects: To clear intestines and dry damp, settle pain. TCM Indications: Damp-heat dysentery, enteritis and diarrhea, jaundice, eczema, sore pharynx, toothache, intractable lichen, scalds. Isolated compounds: 16474, 20100.
- T6029 *Sophora alopecuroides* (Fabaceae); KU DOU ZI; Foxtail-like Sophora. Used part: whole herb and seed. TCM Effects: To clear heat and dry damp, kill worms and relieve pain. TCM Indications: Dysentery, stomachache, excessive leukorrhea, eczema, sore and boil, intractable lichen. Isolated compounds: 983, 4594, 13606, 15527, 16451, 16474, 20077, 20094, 20100.  
*Sophora angustifolia* = *Sophora flavescens*
- T6030 *Sophora chrysophylla* (Fabaceae); HUANG YE HUAI; Yellowleaf Sophora. Isolated compounds: 13606.
- T6031 *Sophora flavescens* [Syn. *Sophora angustifolia*] (Fabaceae); KU SHEN; Lightyellow Sophora. Used part: dried root. TCM Effects: To clear heat and dry damp, dispel wind and kill worms. TCM Indications: Arrhythmia, otitis media, acute conjunctivitis, chronic conjunctivitis, trichomoniasis, septicemia, edema, damp-heat diarrhea, intestinal wind bleeding, acute jaundice, inhibited urination, vaginal discharge, pudendal itch, scab and lichen, leprosy, itchy skin, eczema, damp toxin sore, suppurative nest sore. Isolated compounds: 938, 1134, 2145, 4594, 4948, 7883, 9361, 9391, 10714, 11222, 11473, 11474, 11531, 11588, 11783, 12280, 12281, 12282, 12283, 12284, 12285, 12286, 12287, 12340, 12341, 12342, 12343, 12344, 12353, 12354, 12355, 12356, 12357, 12358, 12359, 12360, 12361, 12362, 12363, 12364, 12365, 12366, 12367, 12368, 12369, 12370, 12371, 12595, 12597, 12605, 13089, 13281, 13282, 13462, 13606, 13985, 14279, 14545, 15425, 15674, 15769, 15770, 16451, 16474, 16826, 16834, 20077, 20078, 20086, 20089, 20090, 20091, 20092, 20094, 20096, 20097, 20100, 20127, 21623, 21638, 22761.
- T6032 *Sophora flavescens* [Syn. *Sophora angustifolia*] (Fabaceae); KU SHEN SHI; Lightyellow Sophora Seed. Used part: seed. TCM Effects: To clear heat and resolve toxin, free stool, kill worms. TCM Indications: Acute bacillary dysentery, constipation, ascariasis. Isolated compounds: 4594, 16474.
- T6033 *Sophora franchetiana* (Fabaceae); MIN HUAI; Franchet Sophora. Isolated compounds: 1068.
- T6034 *Sophora japonica* (Fabaceae); HUAI; Japanese Pagodatree. Used part: flower and bud. TCM Effects: To cool blood and stanch bleeding, clear liver and brighten eyes. TCM Indications: Intestinal wind bleeding, bleeding from hemorrhoids, blood dysentery, hematuria, hematochezia, blood strangury, flooding and spotting, blood ejection, spontaneous external bleeding, liver fire headache, red eyes with gall, swollen welling abscess and sores. Isolated compounds: 1935, 2065, 2066, 2069, 2370, 8062, 8063, 8278, 8279, 8280, 8281, 8282, 8282, 8284, 8285, 11642, 12076, 12111, 12112, 12113, 13451, 15525, 18002, 18317, 19087, 19087, 20079, 20080, 20083, 20099, 20128.
- T6035 *Sophora japonica* (Fabaceae); HUAI GEN; Japanese Pagodatree Root. Used part: root. TCM Effects: To dissipate stasis and disperse swelling, kill worms. TCM Indications: Hemorrhoids, throat impediment, ascariasis. Isolated compounds: 13281, 13282.
- T6036 *Sophora japonica* (Fabaceae); HUAI JIAO; Japanese Pagodatree Fruit. Used part: fruit. TCM Effects: To cool blood and stanch bleeding, clear liver and brighten eyes. TCM Indications: Intestinal wind bleeding, bleeding from hemorrhoids, blood strangury, flooding and spotting, blood dysentery, blood heat, blood ejection, spontaneous external bleeding, liver fire and red eyes, dizziness and dim vision. Isolated compounds: 8278, 11648, 18317, 19087, 20080, 20088, 20099, 20101, 20385.
- T6037 *Sophora koreensis* (Fabaceae); CHAO XIAN LANG YA CI; Korean Sophora. Isolated compounds: 517, 6693, 6694.
- T6038 *Sophora leachiana* (Fabaceae); LI QI HUAI; Leachiana Sophora. Isolated compounds: 12595, 12596, 16550.
- T6039 *Sophora moorcroftiana* (Fabaceae); SHA SHENG HUAI; Sandliving Sophora. Used part: seed. TCM Effects: To clear heat and dry damp, resolve toxin. TCM Indications: Damp-heat jaundice, diphtheria, nipple moth. Isolated compounds: 11248, 16451.
- T6040 *Sophora pachycarpa* (Fabaceae); GAN SU HUAI SHU; Thickfruit Sophora. Isolated compounds: 20077.
- T6041 *Sophora* sp. (Fabaceae). Isolated compounds: 2455.
- T6042 *Sophora* spp. (Fabaceae). Isolated compounds: 3004.
- T6043 *Sophora subprostrata* [Syn. *Sophora tonkinensis*] (Fabaceae); SHAN DOU GEN; Tonkin Sophora Root. Used part: root and rhizome. TCM Effects: To clear heat and resolve toxin, disinhibit throat and disperse swelling. TCM Indications: Septicemia, ulcer of uterine cervix, chronic cervicitis, bacillary dysentery, enteritis, hydatid moles, chorioblastoma, asthma, chronic bronchitis, acute tonsillitis, laryngitis, accumulated fire toxin, swelling pain in throat, gingiva painful swelling. Isolated compounds: 16, 17, 18, 22, 1134, 4604, 6539, 8278, 13098, 13281, 13282, 13606, 16451, 18103, 20077, 20082, 20083, 20085, 20095, 20096, 20098, 20123, 22697.
- T6044 *Sophora tetraptera* (Fabaceae); SI CHI HUAI; New Zealand Kowhai. Isolated compounds: 13606.
- T6045 *Sophora tomentosa* (Fabaceae); LING NAN HUAI SHU; Tomentose Sophora. Isolated compounds: 11248, 11504, 13281, 20093.  
*Sophora tonkinensis* = *Sophora subprostrata*
- T6046 *Sophora viciifolia* (Fabaceae); BAI CI HUA; Vetchleaf Sophora. Used part: root. TCM Effects: To clear heat and disinhibit throat, cool blood and disperse swelling. TCM Indications: Swelling pain in throat, cough, hepatitis, dysentery, strangury syndrome, edema, hematuria, nosebleed(epistaxis), hematochezia. Isolated compounds: 6452, 6454, 10336, 10337, 10338, 13606, 14892, 16451, 16474, 20077, 20094.
- T6047 *Sophora viciifolia* (Fabaceae); BAI CI HUA GEN; Vetchleaf Sophora Root. Used part: root. TCM Effects: To clear heat and disinhibit throat,

- cool blood and disperse swelling. TCM Indications: Swelling pain in throat, lung heat cough, hepatitis, dysentery, strangury syndrome, edema, spontaneous external bleeding, hematochezia, hematuria. Isolated compounds: 4695, 4696, 4697.
- T6048 *Sophora vicifolia* (Fabaceae); BAI CI HUA YE; Vetchleaf Sophora Leaf. Used part: leaf. TCM Effects: To cool blood, resolve toxin, kill worms. TCM Indications: Spontaneous external bleeding, hematochezia, swollen welling abscess and clove sores, scab and lichen, scalds, trichomoniasis. Isolated compounds: 6454, 16474.
- T6049 *Sophora vicifolia* (Fabaceae); BAI CI HUA ZI; Vetchleaf Sophora Seed. Used part: fruit. TCM Effects: To clear heat and transform damp, disperse accumulation and relieve pain. TCM Indications: Food accumulation, stomachache, abdominal pain. Isolated compounds: 5895, 21733.
- T6050 *Sopubia delphinifolia* (Scrophulariaceae); CUI QUE YE DUAN GUAN CAO; Delphinileaf Sopubia\*. Isolated compounds: 17834, 17838.
- T6051 *Sorbaria arborea* (Rosaceae); GAO CONG ZHEN ZHU MEI; Tree Falsespiraea. Used part: bark. TCM Effects: See *Sorbaria sorbifolia*. TCM Indications: See *Sorbaria sorbifolia*. Isolated compounds: 18407, 19587, 21634.
- T6052 *Sorbaria sorbifolia* (Rosaceae); ZHEN ZHU MEI; Ural Falsespiraea. Equivalent plant: *Sorbaria arborea*. Used part: bark. TCM Effects: To quicken blood and dispel stasis, disperse swelling and relieve pain. TCM Indications: Fracture, knocks and falls, wind-damp impediment pain. Isolated compounds: 1618, 11659, 11897, 18317, 18407, 19587, 20102, 20103, 21634.
- T6053 *Sorbus aucuparia* (Rosaceae); OU ZHOU HUA QIU; European Mountainash. Isolated compounds: 2005, 6632, 16657, 16658, 20104.
- T6054 *Sorbus decora* (Rosaceae); MEI LI HUA QIU; Showy Mountainash. Isolated compounds: 2005.
- T6055 *Sorbus tianschanica* (Rosaceae); TIAN SHAN HUA QIU; Tianshan Mountain Mountainash. Used part: branchlet and fruit. TCM Effects: To clear lung and suppress cough, supplement spleen and engender liquid. TCM Indications: Tuberculosis, cough and asthma, stomachache, hypovitaminosis. Isolated compounds: 1102, 16657, 21612.
- T6056 *Sorghum vulgare* (Poaceae); GAO LIANG; Sorghum. Used part: seed. TCM Effects: To fortify spleen and check diarrhea, transform phlegm and quiet spirit. TCM Indications: Cholera, spleen vacuity diarrhea, indigestion, phlegm-damp cough, insomnia and frequent dreaming. Isolated compounds: 5283, 13136.
- T6057 *Sorocea bonplandii*. Isolated compounds: 20105.
- T6058 *Sorocea ilicifolia*. Isolated compounds: 20106.
- T6059 *Soulamea soulameoides*. Isolated compounds: 3829.
- T6060 *Souliea vaginata* (Ranunculaceae); HUANG SAN QI; Common Souliea. Used part: rhizome or whole herb. TCM Effects: To clear heat and eliminate vexation, resolve toxin and disperse swelling. TCM Indications: Febrile diseases with vexation and agitation, palpitation and fearful throbbing, steaming bone tidal fever, pharyngitis, stomatitis, conjunctivitis, swelling toxin of sore and welling abscess, damp-heat diarrhea, dysentery. Isolated compounds: 2202, 3649, 3666, 9455, 20110, 20111, 20112.
- T6061 *Sparaxis* sp. (Iridaceae). Isolated compounds: 17568.
- T6062 *Sparganium stoloniferum* (Sparganiaceae); SAN LENG; Common Burreed. Used part: tuber. TCM Effects: To break blood, move *qi* and relieve pain, disperse accumulation. TCM Indications: Concretion conglomeration accumulation and gathering, *qi*-blood stagnation, pain in heart and abdomen, distending pain in rib-side, amenorrhea, postpartum blood stasis abdominal pain, knocks and falls, swelling of sores. Isolated compounds: 6798, 6799, 11503, 12020, 19295, 19983, 21112.
- T6063 *Spartina cynosuroides* (Poaceae); YAN DI HE; Big Cord-grass. Isolated compounds: 21589.
- T6064 *Spartium junceum* (Fabaceae); YING ZHAO DOU; Weaversbroom. Isolated compounds: 4594, 14279, 19332, 20134.
- T6065 *Spathelia excelsa* (Rutaceae). Isolated compounds: 10201, 10202, 10486, 10487, 10783, 16431.
- T6066 *Spatholobus suberectus* (Fabaceae); MI HUA DOU; Suberect Spatholobus. Used part: stem. TCM Effects: To supplement blood, quicken blood, free network vessels. TCM Indications: Septicemia, menstrual disorder, blood vacuity, anemia due to malnutrition, anemia due to bleeding, anemia with yellow complexion, numbness and paralysis, wind-damp impediment pain. Isolated compounds: 676, 2779, 2931, 10967, 20437.
- T6067 *Spatoglossum variabile* YI BIAN HE SHE ZAO. Isolated compounds: 3542, 3557.
- T6068 *Speranskia leptostachya* (Euphorbiaceae). Isolated compounds: 17202.
- T6069 *Speranskia tuberculata* (Euphorbiaceae); TOU GU CAO; Tuberculate Speranskia. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood, relieve pain. TCM Indications: Wind-damp impediment pain, contracture of muscles and joints, beriberi, swelling toxin of sore and lichen. Isolated compounds: 3594, 11897, 12679, 17202.
- Spergula japonica* = *Sagina japonica*
- T6070 *Sphaeciospongia vesparia*; Sponge *Sphaeciospongia vesparia*. Isolated compounds: 17729.
- T6071 *Sphaeranthus indicus* (Asteraceae); RONG MAO DAI XING CAO; Indian Sphaeranthus. Used part: whole herb. TCM Effects: To clear heat and disinhibit urine, fortify stomach and disperse food. TCM Indications: Infection of urinary system, indigestion. Isolated compounds: 13883.
- Sphaerophysa salsula* = *Swainsonia salsula*  
*Sphagnum cymbifolium* = *Sphagnum palustre*  
*Sphagnum obtusifolium* = *Sphagnum palustre*
- T6072 *Sphagnum palustre* [Syn. *Sphagnum obtusifolium*; *Sphagnum cymbifolium*] (Sphagnaceae); NI TAN XIAN. Used part: plant body. TCM Effects: To clear heat and brighten eyes, relieve itch. TCM Indications: Eye screen, skin diseases, insect bites with itching. Isolated compounds: 13127.
- T6073 *Sphallerocarpus gracilis* (Apiaceae); MO GUO QIN; Thin Sphallerocarpus. Used part: fruit. TCM Effects: To boost kidney, invigorate *yang*, dispel wind and dry damp. Isolated compounds: 1211, 2041, 22744.
- T6074 *Spigelia anthelmia* (Spigeliaceae); QU CHONG CAO. Isolated compounds: 1281, 4907, 4908, 4911, 4931, 4932, 4933, 5169, 5215,

- 5869, 5870, 7091, 7092, 7111, 7112, 7113, 10071, 10081, 10683, 10715, 15794, 19091, 20162, 20163.
- T6075 *Spiranthes acmella* (Asteraceae); TIAN WEN CAO; Paniculate Spotted. Used part: whole herb. TCM Effects: To suppress cough and settle asthma, resolve toxin and disinhibit damp, disperse swelling and relieve pain. TCM Indications: Common cold, cough, asthma, pertussis, tuberculosis, diarrhea, enteritis, malaria, swelling toxin of sore and boil, rheumatic arthritis, toothache, knocks and falls, poisonous snake bite. Isolated compounds: 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122.
- T6076 *Spinacia oleracea* (Chenopodiaceae); BO CAI; Spanish. Used part: whole herb with root. TCM Effects: To nourish blood, stanch bleeding, calm liver, moisten dryness. TCM Indications: Spontaneous external bleeding, hematochezia, headache, dizziness and dim vision, red eyes, night blindness, diabetes mellitus, fecal stoppage, hemorrhoids. Isolated compounds: 360, 3585, 4190, 7777, 7852, 7853, 9568, 9601, 10500, 15356, 15357, 16285, 17140, 17141, 20164, 20166, 20167, 20168, 21415.
- T6077 *Spiraea formosana* (Rosaceae); TAI WAN XIU XIAN JU; Taiwan Spiraea\*. Isolated compounds: 1113, 2081, 8788, 19983, 20189, 20190, 20191, 20192.
- T6078 *Spiraea fritschiana* var. *parvifolia* (Rosaceae); XIAO YE HUA BEI XIU XIAN JU; Smallleaf Fritsch Spiraea\*. Isolated compounds: 20178, 20181, 20182, 20183, 20184, 20185, 20186, 20187, 20188.
- T6079 *Spiraea japonica* (Rosaceae); XIU XIAN JU; Japanese Spiraea. Used part: root. TCM Effects: See *Spiraea japonica* var. *Fortunei*. TCM Indications: See *Spiraea japonica* var. *Fortunei*. Isolated compounds: 20194.
- T6080 *Spiraea japonica* (Rosaceae); XIU XIAN JU YE; Japanese Spiraea Leaf. Used part: leaf. TCM Effects: To resolve toxin and disperse swelling, eliminate putridity and engender flesh. TCM Indications: Fistula. Isolated compounds: 20175, 20176, 20177, 20179, 20180.
- T6081 *Spiraea japonica* var. *acuta* (Rosaceae); JI JIAN XIU XIAN JU; Acute Spiraea. Isolated compounds: 20193, 20195, 20200, 20201.
- T6082 *Spiraea japonica* var. *fortunei* (Rosaceae); GUANG YE FEN HUA XIU XIAN JU; Fortune Japanese Spiraea. Equivalent plant: *Spiraea japonica*. Used part: root. TCM Effects: To dispel wind and clear heat, eliminate screen and brighten eyes. TCM Indications: Cough, toothache, headache, red eyes and eye screen. Isolated compounds: 20197, 20198, 20199.
- T6083 *Spiraea mongolica* (Rosaceae); MENG GU XIU XIAN JU; Mongolian Spiraea. Isolated compounds: 20196.
- T6084 *Spiraea prunifolia* (Rosaceae); XIAO YE HUA; Bridalwreath Spiraea. Equivalent plant: *Spiraea thunbergii*. Used part: root. TCM Effects: To disinhibit throat and disperse swelling, dispel wind and relieve pain. TCM Indications: Swelling pain in throat, wind-damp impediment pain. Isolated compounds: 10488, 14313.
- T6085 *Spiraea* sp. (Rosaceae). Isolated compounds: 22336.
- T6086 *Spiraea thunbergii* (Rosaceae); ZHEN ZHU XIU XIAN JU; Thunberg Spiraea. Used part: root. TCM Effects: See *Spiraea prunifolia*. TCM Indications: See *Spiraea prunifolia*. Isolated compounds: 3704, 3705, 3707, 10490, 10491.
- T6087 *Spiranthes sinensis* (Orchidaceae); ZHONG GUO SHOU CAO; Chinese Spiranthes\*. Used part: whole herb with root. TCM Effects: To boost *qi* and nourish *yin*, clear heat and resolve toxin. TCM Indications: Weakness during convalescence, *yin* vacuity internal heat, cough with blood ejection, dizzy head, lumbago and limp aching, diabetes mellitus, emission, strangury-turbidity and vaginal discharge, swelling pain in throat, poisonous snake bites, burns and scalds, swollen welling abscess and sores. Isolated compounds: 19930, 19931, 19932.
- Splachnum mnioides* = *Tetraplodon mnioides*
- T6088 *Spongia* sp. Isolated compounds: 20226, 20227.
- T6089 *Stachybotrys atra*; Fungus *Stachybotrys atra*. Isolated compounds: 1983.
- T6090 *Stachybotrys chartarum*; Fungus *Stachybotrys chartarum*. Isolated compounds: 1983, 1984, 1985, 1986, 1987, 1988, 1989, 7110, 10058.
- T6091 *Stachybotrys nephrospora*; Fungus *Stachybotrys nephrospora*. Isolated compounds: 17574, 20253.
- T6092 *Stachys palustris* (Lamiaceae); GUANG YE SHUI SU; Marshy Betony. Used part: root or whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and quicken blood. TCM Indications: Swelling pain in throat, pulmonary welling abscess, pertussis, dysentery, mammary welling abscess, zoster, eye screen, hemoptysis, painful swelling from knocks and falls. Isolated compounds: 2918, 13847, 16575.
- T6093 *Stachys sylvatica* (Lamiaceae); LIN DI SHUI SU; Whitespot Betony. Isolated compounds: 2325.
- T6094 *Stachys tubrifera* (Lamiaceae); KUAI JING SHUI SU; Chinese Artichoke. Isolated compounds: 20254.
- T6095 *Stachytarpheta jamaicensis* (Verbenaceae); JIA MA BIAN; Jamaica Falsevalerian. Used part: whole herb and root. TCM Effects: To clear heat and disinhibit damp, resolve toxin and disperse swelling. TCM Indications: Heat strangury, stone strangury, white turbidity, leukorrhea, wind-damp bone pain, acute conjunctivitis, pharyngolaryngitis, gingivitis, cholecystitis, welling abscess and boil, hemorrhoids, painful swelling from knocks and falls. Isolated compounds: 3551, 22044.
- T6096 *Stachyurus praecox* (Stachyuraceae); JING JIE HUA; praecox Stachyurus\*. Isolated compounds: 16765, 17754.
- T6097 *Staphylea bumalda* (Staphyleaceae); SHENG GU YOU; Bumalda Bladdernut. Used part: fruit or root. TCM Effects: To moisten lung and relieve cough. TCM Indications: Dry cough, postpartum blood stasis. Isolated compounds: 10944, 13645, 20263, 20264, 20265, 20266, 20267, 20268, 20269, 20270, 20271, 20272, 20273, 20274.
- T6098 *Staphylea pinnata* (Staphyleaceae); OU ZHOU SHENG GU YOU; European Bladdernut, Pinnate Bladdernut. Isolated compounds: 16469, 17392.
- T6099 *Stauntonia chinensis* (Lardizabalaceae); YE MU GUA; Chinese Stauntonvine. Used part: root or root cortex. TCM Effects: To dispel wind and quicken network vessels, quicken blood and relieve pain, disinhibit urine and disperse edema. TCM Indications: Armpit welling abscess, enlargement of testes, dysmenorrhea. Isolated compounds: 18197, 22883, 22884, 22885, 22886, 22887, 22888, 22889, 22890, 22891, 22892.
- T6100 *Stauntonia hexaphylla* (Lardizabalaceae); NA TENG; Japanese Stauntonvine. Used part: stem-leaf. TCM Effects: To dispel wind and

- dissipate stasis, relieve pain, disinhibit urine and disperse edema. TCM Indications: Wind-damp impediment pain, painful wound from knocks and falls, neuralgia, inhibited urination, edema. Isolated compounds: 13799, 18419.
- T6101 *Stauntonia hexaphylla* (Lardizabalaceae); NA TENG GUO; Japanese Stauntonvine Fruit. Used part: fruit. TCM Effects: To resolve toxin and disperse swelling, kill worms and relieve pain. TCM Indications: Sore and welling abscess, mounting *qi*, ascariasis, trichuriasis. Isolated compounds: 6755, 15004, 15005, 15006.
- T6102 *Stauranthus perforatus* (Rutaceae); Tankasché (in Mexico). Isolated compounds: 1067, 1833, 3457, 6312, 7061, 7719, 9304, 11269, 11630, 22781.
- T6103 *Steganotaenia araliacea* (Apiaceae); WU JIA QIAN HU. Isolated compounds: 15417, 20284, 20285, 22173.
- T6104 *Stellaria dichotoma* var. *lanceolata* (Caryophyllaceae); YIN CHAI HU; Lanceolate Starwort. Used part: root. TCM Effects: To clear vacuity heat, eliminate *gan* fever. TCM Indications: *Yin* vacuity fever, steaming bone taxation fever, child *gan* fever. Isolated compounds: 5420, 5421, 5422, 5423, 5424, 5425, 5427, 5428, 5429, 5430, 5431, 8594, 9183, 20169, 20286, 22718.
- T6105 *Stellera chamaejasme* (Thymelaeaceae); LANG DU; Chinese Stellera. Used part: root. TCM Effects: To expel water and dispel phlegm, break accumulation and kill worms. TCM Indications: Edema distention fullness, accumulation from phlegm, food accumulation, worm accumulation, pain in heart and abdomen, chronic trachitis, cough, asthma, scab and lichen, hemorrhoids and fistulas, scrofula, bone tuberculosis, epididymis tubercle. Isolated compounds: 3458, 3459, 3460, 3461, 3462, 3696, 4645, 4658, 6541, 11249, 11319, 11320, 11558, 11601, 13989, 14895, 15361, 16828, 17375, 19063, 19064, 19890, 19902, 20156, 20556, 21610, 22195, 22829.
- T6106 *Stelmatocrypton khasianum* (Asclepiadaceae); SHENG TENG; Common Stelmatocrypton. Used part: lianoid stem or whole herb. TCM Effects: To dispel wind and dissipate cold, move *qi* and free network vessels. TCM Indications: Common cold, cough, distending pain in stomach duct, wind-cold-damp impediment. Isolated compounds: 14088, 19988, 20287, 20288, 20289, 20290.
- T6107 *Stemona* cf. *pierrei* (Stemonaceae); c. Isolated compounds: 5694, 14677, 17420, 17992, 20291, 20292, 20293, 20294, 20307, 20379, 20380, 20381, 20382.
- T6108 *Stemona cochinchinensis* (Stemonaceae); YIN DU ZHI NA BAI BU; Indochina *Stemona*\*. Isolated compounds: 10731, 17992, 20296, 20304.
- T6109 *Stemona collinsae* (Stemonaceae); XIAO QIU BAI BU; Hill *Stemona*\*. Used part: root. TCM Effects: Anticarcinoma. Isolated compounds: 5470.
- T6110 *Stemona curtisii* (Stemonaceae). Isolated compounds: 4964, 10731, 16470, 16475, 16476, 17992, 20296, 20304.
- T6111 *Stemona japonica* (Stemonaceae); WAN SHENG BAI BU; Japanese *Stemona*. Used part: root. TCM Effects: See *Stemona tuberosa*. TCM Indications: See *Stemona tuberosa*. Isolated compounds: 17992, 20304, 20306, 20307.
- T6112 *Stemona kerrii* (Stemonaceae); DI TANG BAI BU; Kerri *Stemona*\*. Isolated compounds: 4964, 14094, 16470, 16475, 16476, 17992, 20296, 20305.
- T6113 *Stemona sessilifolia* (Stemonaceae); ZHI LI BAI BU; Sessile *Stemona*. Used part: root. TCM Effects: See *Stemona tuberosa*. TCM Indications: See *Stemona tuberosa*. Isolated compounds: 11719, 16437, 17992, 20307, 22085.
- T6114 *Stemona* sp. (Stemonaceae). Isolated compounds: 16475, 16476, 16692, 18260.
- T6115 *Stemona tuberosa* (Stemonaceae); BAI BU; Tuber *Stemona*. Equivalent plant: *Stemona japonica*, *Stemona sessilifolia*. Used part: root. TCM Effects: To moisten lung, relieve cough and kill worms. TCM Indications: Wind-cold cough, pertussis, tuberculosis, senile cough and asthma, ascariasis, oxyuria disease, scab and lichen, eczema, cootie. Isolated compounds: 3766, 5471, 6839, 7882, 11720, 11749, 13419, 15460, 15469, 16285, 16437, 16438, 20307, 20308, 20309, 20444, 22084, 22085, 22086, 22087, 22088, 22089, 22090.
- T6116 *Stenoloma chusanum* (Lindsaeaceae); DA YE JIN HUA CAO; Common Wedgelet Fern. Used part: whole herb or rhizome. TCM Effects: To clear heat and resolve toxin, disinhibit damp, stanch bleeding. TCM Indications: Common cold with fever, cough, swelling pain in throat, enteritis, dysentery, hepatitis, damp-heat vaginal discharge, swelling toxin of welling abscess and sore, epidemic parotitis, mouth sore, burns and scalds, poisonous snake and rabid dog bite, eczema of skin, blood ejection, hematuria, hematochezia, bleeding due to external injury. Isolated compounds: 20566.
- T6117 *Stephania abyssinica* (Menispermaceae). Isolated compounds: 17956.
- T6118 *Stephania brachyandra* (Menispermaceae); BAI XIAN SHU; Shortstamen *Stephania*\*. Used part: tuberoid. TCM Effects: To move *qi* and quicken blood, dispel wind and relieve pain, clear heat and resolve toxin. TCM Indications: Stomachache, wind-damp impediment pain, knocks and falls, dysmenorrhea, swelling toxin of welling abscess and boil, eczema. Isolated compounds: 11344.
- T6119 *Stephania cepharantha* (Menispermaceae); BAI YAO ZI; Oriental *Stephania*. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, dispel wind and relieve pain, cool blood and stanch bleeding. TCM Indications: Septicemia, acute hepatitis, bacillary dysentery, parotitis, neurodermatitis, swelling pain in throat, heat toxin swollen welling abscess, wind-damp impediment pain, abdominal pain and diarrhea, blood ejection, bleeding, spontaneous external bleeding, bleeding due to external injury. Isolated compounds: 2300, 2303, 3410, 3411, 3412, 3885, 4461, 6437, 8808, 9597, 11736, 14981, 15725, 16623, 21206, 21887.
- T6120 *Stephania delavayi* [Syn. *Stephania epigaea*] (Menispermaceae); DI BU RONG; Delavay *Stephania*. Used part: tuber. TCM Effects: To rectify *qi* and relieve pain, dispel wind-damp, disperse swelling toxin. TCM Indications: *Qi* stagnation and food accumulation, pain in stomach duct and abdomen, wind-damp impediment pain, swelling toxin of welling abscess and sore, poisonous snake bite. Isolated compounds: 3412, 4461, 4994, 16310, 20319.
- T6121 *Stephania dicentrifera* (Menispermaceae); HE BAO DI BU RONG; Dicine *Stephania*\*. Equivalent plant: *Stephania viridiflavens*. Used part: tuberoid. TCM Effects: To dissipate stasis and relieve pain, clear heat and resolve toxin. TCM Indications: Stomachache, dysentery, sore pharynx, knocks and falls, swollen welling abscess, sore and boil,

- poisonous snake bite. Isolated compounds: 5417.
- T6122 *Stephania dielsiana* (Menispermaceae); XUE SAN SHU; Diels Stephania. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain. TCM Indications: Infection of upper respiratory tract, pharyngitis, sore and welling abscess, stomachache, gastroenteritis, toothache, neuralgia, knocks and falls. Isolated compounds: 19200.
- T6123 *Stephania dinklagei* (Menispermaceae); DING KE LA QIAN JIN TENG; Dinklage Stephania\*. Isolated compounds: 1961, 4106, 4970, 11344, 12917, 20316.
- T6124 *Stephania discolor* (Menispermaceae); CAI WEN QIAN JIN TENG; Discolor Stephania\*. Isolated compounds: 21206.
- T6125 *Stephania elegans* (Menispermaceae); YA LI QIAN JIN TENG; Elegant Stephania. Used part: root. TCM Effects: To clear heat and resolve toxin, dispel wind and relieve pain. TCM Indications: Sore swollen throat, sore toxin, swelling hemorrhoids, wind-damp impediment pain. Isolated compounds: 9245, 9447.  
*Stephania epigaea* = *Stephania delavayi*
- T6126 *Stephania erecta* (Menispermaceae); ZHI LI QIAN JIN TENG; Erect Stephania\*. Isolated compounds: 9597, 15739, 15764, 15804.
- T6127 *Stephania glabra* (Menispermaceae); GUANG YE DI BU RONG; Glabrousleaf Stephania\*. Used part: tuberoid. TCM Effects: To dispel wind and move water, resolve toxin and disperse swelling. TCM Indications: Wind-damp impediment pain, edema, toxin swelling of sores. Isolated compounds: 4461, 17909.
- T6128 *Stephania hernandifolia* (Menispermaceae); RU LAN; Hernandialeaf Stephania. Used part: root. TCM Effects: To clear heat and resolve toxin, dispel wind-damp, relieve pain. TCM Indications: Sore toxin of welling abscess and boil, swelling pain in throat, epidemic parotitis, wind-damp impediment pain, dysentery, headache, stomachache, taxation damage and pain. Isolated compounds: 822, 1698, 7024, 7714, 9441, 9442, 9445, 9446, 9447, 9448, 11329, 11747, 18410.
- T6129 *Stephania japonica* (Menispermaceae); QIAN JIN TENG; Japanese Staphania. Used part: root or stem-leaf. TCM Effects: To clear heat and resolve toxin, dispel wind and relieve pain, disinherit water and disperse edema. TCM Indications: Swelling pain in throat, swollen welling abscess, sore and boil, poisonous snake bite, wind-damp impediment pain, stomachache, beriberi with edema, nephritis with edema, urinary tract infection, rheumatic arthritis, sciatica. Isolated compounds: 4459, 7022, 7024, 9245, 9622, 10893, 11088, 13812, 15885, 16328, 16341, 16412, 16424, 17908, 17957, 17993, 20283, 20312, 20318, 20319, 20323, 20325.
- T6130 *Stephania japonica* var. *australis* (Menispermaceae); AO DA LI YA QIAN JIN TENG; Australia Stephania\*. Isolated compounds: 9245, 16424.
- T6131 *Stephania longa* (Menispermaceae); FEN JI DU; Long Stephania. Used part: root, rhizome or whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp and disperse swelling, dispel wind and quicken network vessels. TCM Indications: Diarrhea and dysentery, dribbling and inhibited voidings of urination, edema, jaundice, wind-damp impediment pain, throat impediment, tympanitis, swelling toxin of sore and welling abscess, poisonous snake bites. Isolated compounds: 17956, 20311.
- T6132 *Stephania sasakii* (Menispermaceae); TAI WAN QIAN JIN TENG; Sasak Stephania\*. Used part: rhizome. TCM Effects: To settle pain, promote vomiting. TCM Indications: Tuberculosis, bronchitis, pertussis, chronic sores, poisonous snake bite, malaria. Isolated compounds: 2300, 3412, 9447, 14289, 14707, 17041, 19608.
- T6133 *Stephania sinica* (Menispermaceae); JIN BU HUAN; Chinese Stephania. Used part: root. TCM Effects: To clear heat and resolve toxin, dissipate stasis and relieve pain. TCM Indications: stomachache, neuralgia, toothache, common cold, throat pain, diarrhea, dysentery, swelling toxin of welling abscess and flat abscess, wind-damp impediment pain, knocks and falls. Isolated compounds: 19067, 21077.
- T6134 *Stephania* sp. (Menispermaceae). Isolated compounds: 2049, 4224, 19598.
- T6135 *Stephania succifera* (Menispermaceae); XIAO YE DI BU RONG; Littleleaf Stephania. Used part: tuberoid. TCM Effects: To clear heat and resolve toxin, calm and relieve pain. TCM Indications: Various pain, neuralgia, toothache, stomachache, malaria, bacillary dysentery, acute gastroenteritis, infection of upper respiratory tract, swollen welling abscess and sore toxin, poisonous snake bites. Isolated compounds: 17041.
- T6136 *Stephania tetrandra* (Menispermaceae); FANG JI; Fourstamen Stephania. Used part: root. TCM Effects: To disinherit water and disperse edema, dispel wind and relieve pain. TCM Indications: Beriberi with edema, inhibited urination, eczema, sore toxin, wind-damp impediment pain, hypertension, adjuvant in anesthesia. Isolated compounds: 2303, 3747, 4459, 5419, 7714, 7753, 7754, 11851, 13714, 13715, 14441, 14753, 16332, 20313, 20314, 20315, 20320, 21206.
- T6137 *Stephania viridiflavens* (Menispermaceae); HUANG YE DI BU RONG; Greenyellow Stephania. Used part: tuberoid. TCM Effects: See *Stephania dicentrifera*. TCM Indications: See *Stephania dicentrifera*. Isolated compounds: 11851, 16555, 18054, 22820.
- T6138 *Sterculia foetida* (Sterculiaceae); JIA MA SHU; Hazel Sterculia. Used part: bark. TCM Effects: To joint sinews and bones, quicken blood and relieve pain. TCM Indications: Sinew and bone wound, painful swelling from knocks and falls. Isolated compounds: 20328, 20710.
- T6139 *Sterculia lychnophora* (Sterculiaceae); PANG DA HAI. Used part: seed, fruit. TCM Effects: To eliminate inflammation, clear heat and resolve toxin, clear lung and disinherit throat, moisten intestines and free stool.<sup>[5509]</sup> TCM Indications: Dry cough lesser phlegm, aphonia due to throat pain, headache, steaming bone tidal fever, nosebleed, red eyes, toothache, heat bind constipation, hemorrhoids and fistulas.<sup>[5509]</sup> Isolated compounds: 20329, 20330.
- T6140 *Stereocaulon alpinum* (Stereocaulaceae). Isolated compounds: 12936.
- T6141 *Stereospermum kunthianum* (Bignoniaceae); WU GAN DA YU YE QIU; Uganda Padritree\*. Isolated compounds: 1364, 18252, 18253, 20333, 20334.
- T6142 *Stereospermum personatum* (Bignoniaceae); JIA MIAN YU YE QIU; Personator Padritree\*. Isolated compounds: 20335, 20336, 20337, 20338, 20339.
- T6143 *Stereum hirsutum* (Thelephoraceae); MAO REN GE JUN. Isolated compounds: 5927, 10418, 10469, 20332.

- T6144 *Sternbergia lutea* (Liliaceae); HUANG SI TAN BAO; Winter Daffodil. Isolated compounds: 9547.
- T6145 *Stichopus japonicus* (Stichopodidae); HAI SHEN CHANG; Sea-cucumber Intestines. Used part: intestine. TCM Effects: To settle fright, harmonize stomach, resolve toxin and outthrust papules, engender flesh and stanch bleeding. TCM Indications: Gastric ulcer, duodenal ulcer, epilepsy, child indigestion, measles papules, sore and boil, bleeding due to external injury. Isolated compounds: 8753.
- T6146 *Stillingia sylvatica* [Syn. *Sapium sylvatica*] (Euphorbiaceae); CAO WU JIU; Sylvatic Sapium\*. Isolated compounds: 15990, 17958.
- T6147 *Stizolobium capitatum* (Fabaceae); LI DOU; Capitatedflower Velvetbean. Used part: seed. TCM Effects: To warm center and boost qi. TCM Indications: Diabetes mellitus. Isolated compounds: 6558.
- T6148 *Streptomyces griseus* . Isolated compounds: 8308.
- T6149 *Streptomyces hygroscopicus* . Isolated compounds: 17609, 17610.
- T6150 *Streptopelia orientalis* (Columbidae); BAN JIU; Rufous Turtle Dove. Used part: meat. TCM Effects: To supplement kidney, boost qi, brighten eyes. TCM Indications: Enduring illness qi vacuity, fatigue hypodynamia, hiccup, dim vision. Isolated compounds: 2101.
- T6151 *Streptothris chromogena* . Isolated compounds: 18426.
- T6152 *Streptomyces niveus* ; Ray-fungus 1. Isolated compounds: 15849.
- T6153 *Streptomyces spheroids* ; Ray-fungus 2. Isolated compounds: 15849.
- T6154 *Strobilanthes japonicus* [Syn. *Championella japonica*] (Acanthaceae); HONG ZE LAN; Japanese Conehead. Used part: whole herb. TCM Effects: To quicken blood and free menstruation, transform stasis and move water. TCM Indications: Menstrual disorder, dysmenorrhea, amenorrhea, postpartum abdominal pain, concretion and conglomeration, swollen welling abscess, knocks and falls. Isolated compounds: 20393.
- T6155 *Strophanthus divaricatus* (Apocynaceae); YANG JIAO AO ZI; Divaricate Strophanthus Seed. Used part: seed. TCM Effects: To quicken blood and disperse swelling, strengthen heart, kill worms and relieve itch. TCM Indications: Wind-damp, scab and lichen, knocks and falls, swelling of sores, cardiac failure, rheumatic arthritis. Isolated compounds: 3331, 3332, 4317, 4857, 6530, 6532, 12951, 15123, 19372, 19374, 19380, 19381, 19958, 19959, 20403, 20405.
- T6156 *Strophanthus gratus* (Apocynaceae); XUAN HUA YANG JIAO AO; Spinyflower Strophanthus. Isolated compounds: 20403.
- T6157 *Strophanthus kombe* (Apocynaceae); KANG PI DU MAO XUAN HUA; Kombe Strophanthus\*. Isolated compounds: 4547, 4549, 7320, 9335, 9336, 16943, 20397, 20405.
- T6158 *Strophanthus preussii* (Apocynaceae). Isolated compounds: 16959.
- T6159 *Strophanthus sarmentosus* var. *senegambiae* (Apocynaceae); XI FEI YANG JIAO AO; Senegalese Strophanthus\*. Isolated compounds: 2399, 19374.
- T6160 *Strophanthus* sp. (Apocynaceae). Isolated compounds: 12951, 21662.
- T6161 *Strophanthus* spp. (Apocynaceae). Isolated compounds: 16958.
- T6162 *Strophanthus thollonii* (Apocynaceae); SE LUN YANG JIAO AO; Thollon Strophanthus\*. Isolated compounds: 2399.
- T6163 *Strychnos aculeata* (Loganiaceae); CI MA QIAN ZI; Aculeate Poisonnut\*. Isolated compounds: 2678.
- T6164 *Strychnos afzelii* (Loganiaceae); A FU ZE ER MA QIAN ZI; Afzel Poisonnut\*. Isolated compounds: 3148, 5682.
- T6165 *Strychnos amazonica* (Loganiaceae); YA MA XUN MA QIAN ZI; Amazonian Poisonnut\*. Isolated compounds: 5682, 13615.
- T6166 *Strychnos angustiflora* (Loganiaceae); NIU YAN MA QIAN; Narrowflower Poisonnut. Used part: seed. TCM Effects: To free channels and quicken network vessels, disperse swelling and relieve pain. TCM Indications: Wind-damp impediment pain, deadlimb, hemiplegia, swelling toxin of welling abscess and flat abscess, knocks and falls. Isolated compounds: 1250.
- T6167 *Strychnos camptoneura* (Loganiaceae). Isolated compounds: 817.
- T6168 *Strychnos dale* (Loganiaceae). Isolated compounds: 14123.
- T6169 *Strychnos decussata* (Loganiaceae); DUI SHENG MA QIAN; Opposite Poisonnut\*. Isolated compounds: 817, 4864.
- T6170 *Strychnos divaricans* (Loganiaceae); FEN CHA MA QIAN ZI; Divaricate Poisonnut\*. Isolated compounds: 2959, 4377, 13615.
- T6171 *Strychnos dolichothyrsa* (Loganiaceae); CHANG HUA XU MA QIAN ZI; Longthyrsus Poisonnut\*. Isolated compounds: 3148, 5682.
- T6172 *Strychnos elaeocarpa* (Loganiaceae). Isolated compounds: 14123.
- T6173 *Strychnos froesii* (Loganiaceae); FU SHI MA QIAN ZI; Froes Poisonnut\*. Isolated compounds: 4377, 21485.
- T6174 *Strychnos gardneri* (Loganiaceae). Isolated compounds: 817.
- T6175 *Strychnos guianensis* (Loganiaceae). Isolated compounds: 905, 4209, 4926, 4927, 7841, 9077, 9078, 13335, 13615, 14024.
- T6176 *Strychnos icaja* (Loganiaceae); ZHONG FEI MA QIAN; Central-African Poisonnut\*. Isolated compounds: 10734, 10939, 20414.
- T6177 *Strychnos ignatii* (Loganiaceae); LV SONG GUO; Ignat Poisonnut Seed. Used part: ripe seed. TCM Effects: To resolve toxin, disperse swelling, kill worms, relieve pain. TCM Indications: Stomachache, diarrhea, dysentery, malaria, worm accumulation, bleeding due to external injury, centipede bite. Isolated compounds: 2678, 7417, 12950, 14095, 17934, 20410.
- T6178 *Strychnos jobertiana* (Loganiaceae). Isolated compounds: 817.
- T6179 *Strychnos mellodora* (Loganiaceae). Isolated compounds: 16541, 21049, 21050.
- T6180 *Strychnos mitschlichii* (Loganiaceae); MI SHI MA QIAN ZI; Mitschlich Poisonnut\*. Isolated compounds: 2959, 4377, 13615.
- T6181 *Strychnos myrtoides* (Loganiaceae). Isolated compounds: 5050, 10079, 13417, 15226.
- T6182 *Strychnos nigriflora* (Loganiaceae). Isolated compounds: 817.
- T6183 *Strychnos nitida* (Loganiaceae); MAO ZHU MA QIAN; Hairstyle Poisonnut. Used part: fruit and seed. TCM Effects: To dispel wind and quicken network vessels, resolve toxin and disperse swelling. TCM Indications: Wind stroke, numbness in limbs, hypertonicity, paralysis, swelling toxin of welling abscess and sore, swelling pain in throat. Isolated compounds: 3103, 12800, 20410.
- T6184 *Strychnos nux-vomica* (Loganiaceae); MA QIAN ZI; Nut-vomitive Poisonnut. Equivalent plant: *Strychnos wallichiana*. Used part: seed. TCM Effects: To free network vessels and relieve pain, dissipate binds and disperse swelling. TCM Indications: Hemiplegia, numbness and paralysis, muscle weakness, impotence, hypertrophic spinitis, chronic anemia, wind-damp intractable impediment, sequel of poliomyelitis, rheumatoid arthritis, knocks and falls, swelling pain of welling abscess and flat abscess. Isolated compounds: 454, 455, 456, 457, 1110, 2678,

- 2679, 3551, 3930, 3931, 4311, 4943, 9930, 9931, 10457, 10459, 10734, 10939, 11265, 11266, 11721, 11722, 12950, 13615, 13972, 15775, 15847, 17994, 18021, 18070, 18792, 20410, 20411, 22614.
- T6185 *Strychnos parvifolia* (Loganiaceae). Isolated compounds: 817.
- T6186 *Strychnos* sp. (Loganiaceae). Isolated compounds: 5191.
- T6187 *Strychnos spinosa* (Loganiaceae). Isolated compounds: 817.
- T6188 *Strychnos toxifera* (Loganiaceae); DU MA QIAN; Toxic Poisonnut\*. Isolated compounds: 13615, 21485.
- T6189 *Strychnos trinervis* (Loganiaceae); SAN YE MAI MA QIAN; Trinervure Poisonnut\*. Isolated compounds: 2959.
- T6190 *Strychnos triplinervia* (Loganiaceae); LI JI SAN CHU MAI MA QIAN; Triplinervia Poisonnut\*. Isolated compounds: 20410.
- T6191 *Strychnos usambarensis* (Loganiaceae); DONG FEI MA QIAN; East-African Poisonnut\*. Isolated compounds: 817, 3614, 11723, 20415, 22275, 22276.
- T6192 *Strychnos vanprukii* (Loganiaceae). Isolated compounds: 817, 4958, 10649, 14123, 16541, 21050.
- T6193 *Strychnos wallichiana* (Loganiaceae); CHANG ZI MA QIAN; Wallich Poisonnut. Used part: seed. TCM Effects: See *Strychnos nux-vomica*. TCM Indications: See *Strychnos nux-vomica*. Isolated compounds: 10459, 10734, 10939.
- T6194 *Stylomecon* spp. Isolated compounds: 3498.
- T6195 *Stylophorum diphyllum* (Papaveraceae); ER YE BAO YING SU; Celandine Poppy. Isolated compounds: 3502.
- T6196 *Stylophorum* spp. Isolated compounds: 3498.
- T6197 *Styrax benzoin* (Styracaceae); AN XI XIANG; Sumatra Snowbell. Equivalent plant: *Styrax tonkinensis*. Used part: balsam. TCM Effects: To open orifices and arouse spirit, break phlegm and repel foulness, move *qi* and quicken blood, relieve pain. TCM Indications: Sudden stroke and fulminant reversal, pain in heart and abdomen, postpartum blood dizziness, child fright epilepsy, wind impediment and lumbago. Isolated compounds: 2222, 3695, 3728, 3986, 17133, 20417, 20430, 20484, 22336.
- T6198 *Styrax ferrugineus* (Styracaceae); XIU SE AN XI XIANG; Ferruginous Snowbell\*. Isolated compounds: 8708, 8709, 10664, 10665.
- T6199 *Styrax formosanus* (Styracaceae); TAI WAN AN XI XIANG; Taiwan Snowbell. Isolated compounds: 10665.
- T6200 *Styrax japonica* (Styracaceae); RI BEN AN XI XIANG JING PI; Japanese Snowbell Stem-bark. Isolated compounds: 5584, 6717, 10665, 13592, 13595, 17416, 20420, 20421, 20422, 20423, 20424, 20425, 20426, 20427, 20428, 20429, 20569, 20711.
- T6201 *Styrax obassia* (Styracaceae); YU LING HUA; Fragrant Snowbell. Used part: fruit. TCM Effects: To expel worms. TCM Indications: Oxyuria disease. Isolated compounds: 10665.
- T6202 *Styrax officinalis* (Styracaceae); YAO YONG AN XI XIANG; Drug Snowbell. Isolated compounds: 2264, 14172, 20419.
- T6203 *Styrax* sp. (Styracaceae). Isolated compounds: 3695.
- T6204 *Styrax tonkinensis* (Styracaceae); YUE NAN AN XI XIANG; Tonkin Snowbell. Used part: balsam. TCM Effects: See *Styrax benzoin*. TCM Indications: See *Styrax benzoin*. Isolated compounds: 3727, 3985, 19854.
- T6205 *Sus scrofa* (Suidae); YE ZHU DAN; Wild Boar Gall. Used part: gall. TCM Effects: To clear heat and resolve toxin. TCM Indications: Clove sore, toxin swelling, scalds. Isolated compounds: 10560.
- T6206 *Sus scrofa domestica* (Suidae); ZHU DAN; Pig Gall. Used part: gall. TCM Effects: To clear heat and resolve toxin, moisten dryness. TCM Indications: Febrile diseases with vexation and thirst, constipation, jaundice, pertussis, asthma, diarrhea, dysentery, red eyes, throat impediment, otitis media, swollen welling abscess and clove sores. Isolated compounds: 10560, 10867, 10868, 10869.
- T6207 *Swainsonia canescens* (Fabaceae); HUI BAI KU MA DOU; Canescent Swainsonia\*. Isolated compounds: 20500.
- T6208 *Swainsonia galegifolia* (Fabaceae); SHAN YANG DOU YE KU MA DOU; Darling Pea. Isolated compounds: 20500.
- T6209 *Swainsonia luteola* (Fabaceae); DAN HUANG KU MA DOU; Yellowish Swainsonia\*. Isolated compounds: 20500.
- T6210 *Swainsonia salsula* [Syn. *Sphaerophysa salsula*] (Fabaceae); KU MA DOU; Saline Swainsonia. Used part: fruit. TCM Effects: To disinhibit urine, disperse swelling. TCM Indications: Edema, inhibited urination, ascites. Isolated compounds: 20151, 20152, 21760.
- T6211 *Swartzia madagascariensis* (Fabaceae); MA DAO SI WO CI DOU; Madagascar Swartzia\*. Isolated compounds: 6290, 13638, 18229.
- T6212 *Swertia angustifolia* (Gentianaceae); XIA YE ZHANG YA CAI; Narrowleaf Swertia. Isolated compounds: 1243, 1251, 8304, 20503, 20509, 20510.
- T6213 *Swertia calycina* (Gentianaceae); BAO E ZHANG YA CAI; Calycin Swertia. Isolated compounds: 15718, 20502, 20503, 20509, 20510, 20511, 21172, 21173, 21762.
- T6214 *Swertia chinensis* (Gentianaceae); DANG YAO; Chinese Swertia\*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp and fortify stomach. TCM Indications: Medullitis, pharyngolaryngitis, tonsillitis, conjunctivitis, hepatitis, indigestion, dysentery, sore and welling abscess with scab and lichen, poisonous snake bites. Isolated compounds: 1017, 1020, 20503, 20509.
- T6215 *Swertia chirata* (Gentianaceae); ZHAI RUI TA ZHANG YA CAI; Chirata Swertia\*. Isolated compounds: 2220, 11436, 20502, 20509.
- T6216 *Swertia cincta* (Gentianaceae); XI NAN ZHANG YA CAI; Surrounded Swertia. Isolated compounds: 8304, 20503, 20509.
- T6217 *Swertia davidii* (Gentianaceae); CHUAN DONG ZHANG YA CAI; E.Chuan Swertia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Damp-heat jaundice, lung heat cough, swelling pain in throat, toothache, dysentery, urinary tract infection, suppurative osteomyelitis, conjunctivitis, annexitis, pelvic inflammation, zoster, scab and lichen with sore toxin. Isolated compounds: 5950, 6166, 8304, 8740, 20509, 21793.
- T6218 *Swertia decora* (Gentianaceae); GUAN SHANG ZHANG YA CAI. Isolated compounds: 20504.
- T6219 *Swertia erythrosticta* (Gentianaceae); HONG ZHI ZHANG YA CAI; Redspot Swertia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit damp and abate jaundice, kill worms. TCM Indications: Wind-heat cough, sore swollen throat, jaundice (icterus, ICT), syphilis, swelling and toxin of sore and welling abscess, scab and lichen. Isolated compounds: 8304, 20503, 20509, 20510.
- T6220 *Swertia fasciculata* (Gentianaceae); CU HUA ZHANG YA CAI; Fascicled Swertia\*. Isolated compounds: 8304, 20503, 20509, 20510.
- T6221 *Swertia franchetiana* (Gentianaceae); BAO JING ZHANG YA CAI;



- Amplexicaul Swertia. Isolated compounds: 8304, 8758, 19699, 19700, 20509.
- T6222 *Swertia hickinii* (Gentianaceae); ZHE JIANG ZHANG YA CAI; Zhejiang Swertia\*. Isolated compounds: 8304, 20509.
- T6223 *Swertia japonica* (Gentianaceae); RI BEN ZHANG YA CAI; Japanese Swertia\*. Isolated compounds: 1593, 2546, 2781, 3539, 7970, 8069, 8070, 8601, 8602, 8603, 8636, 8734, 8735, 8736, 9840, 10498, 13506, 14732, 15441, 15799, 15800, 17854, 18736, 20505, 20506, 20507, 20509, 20511, 20512.
- T6224 *Swertia kouitchensis* (Gentianaceae); GUI ZHOU ZHANG YA CAI; Guizhou Swertia\*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp. TCM Indications: Fever in children, bitter taste and tidal fever, damp-heat jaundice, sore swollen throat, indigestion, gastritis, mouth sore, toothache, fire eye, poisonous snake bites. Isolated compounds: 8304, 20509.
- T6225 *Swertia macrosperma* (Gentianaceae); DA ZI ZHANG YA CAI; Bigseed Swertia. Isolated compounds: 8304, 20503, 20508, 20509, 20510.
- T6226 *Swertia mileensis* (Gentianaceae); QING YE DAN; Mileen Swertia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinherit damp and abate jaundice. TCM Indications: Damp-heat jaundice, heat strangury with inhibited pain, damp-heat diarrhea dysentery, red and white vaginal discharge, influenza, malaria with fever, acute gastritis, acute pharyngolaryngitis, acute tonsillitis, acute conjunctivitis, allergic dermatitis. Isolated compounds: 14566, 16050, 20503, 20505.
- T6227 *Swertia mussoitii* (Gentianaceae); CHUAN XI ZHANG YA CAI; Mussot Swertia. Used part: whole herb. TCM Effects: To clear liver and disinherit gallbladder, abate jaundice, disinherit water and disperse edema. TCM Indications: Acute icterohepatitis, hepatitis, cholecystitis, edema. Isolated compounds: 13481, 16050.
- T6228 *Swertia nervosa* (Gentianaceae); XIAN MAI ZHANG YA CAI; Veined Swertia\*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, quicken blood and regulate menstruation. TCM Indications: Jaundice (icterus, ICT), bitter taste, tidal fever. Isolated compounds: 8304, 20503, 20509, 20510.
- T6229 *Swertia patens* (Gentianaceae); XIE JING ZHANG YA CAI; Spreading Swertia\*. Used part: whole herb. TCM Effects: To warm center and relieve pain, fortify spleen and disperse accumulation. TCM Indications: Infant common cold, spasmodic abdominal pain, child gan accumulation, indigestion. Isolated compounds: 20509.
- T6230 *Swertia perennis* (Gentianaceae); SU GEN ZHANG YA CAI; Alpine Bog-swertia. Isolated compounds: 15799, 20511.
- T6231 *Swertia pseudochinensis* (Gentianaceae); ZHANG YA CAI; False Chinese Swertia. Used part: whole herb. TCM Effects: To drain fire and resolve toxin, disinherit damp, fortify spleen. TCM Indications: Acute icterohepatitis, chronic liver diseases, damp-heat jaundice, dysentery, gastritis, indigestion, acute conjunctivitis, toothache, mouth sore, swelling pain of sores. Isolated compounds: 5840, 5847, 5848, 6011, 8304, 9616, 11773, 20503, 20509, 20510.
- T6232 *Swertia pubescens* (Gentianaceae); MAO ZHANG YA CAI; Pubescent Swertia. Isolated compounds: 8304, 20503, 20509.
- T6233 *Swertia punctata* (Gentianaceae); XI DIAN ZHANG YA CAI; Punctate Swertia\*. Isolated compounds: 8301, 17855.
- T6234 *Swertia punicea* (Gentianaceae); ZI HONG ZHANG YA CAI; Scarlet Swertia. Used part: whole herb. TCM Effects: To clear liver and disinherit gallbladder, clear heat and resolve toxin, disinherit damp. TCM Indications: Acute icterohepatitis, cholecystitis, wind-heat common cold, wind-fire toothache, swelling pain in throat, indigestion, acute bacillary dysentery, infection of urinary system, tinnitus and deafness, burns and scalds. Isolated compounds: 8304, 20503, 20509, 20510, 20512, 20514.
- T6235 *Swertia punicea* var. *lutescens* (Gentianaceae); DAN HUANG ZHANG YA CAI; Yellowish Swertia\*. Isolated compounds: 8304, 20509, 20510.
- T6236 *Swertia purpurascens* (Gentianaceae); ZI SE ZHANG YA CAI; Purple Swertia\*. Isolated compounds: 15800, 20511.
- T6237 *Swertia randainensis* (Gentianaceae); LUAN DA SHAN ZHANG YA CAI; Randain Swertia\*. Isolated compounds: 15800.
- T6238 *Swertia* sp. (Gentianaceae). Isolated compounds: 19545.
- T6239 *Swertia swertiopsis* (Gentianaceae); PU TONG ZHANG YA CAI; Common Swertia\*. Isolated compounds: 15799.
- T6240 *Swertia tosaensis* (Gentianaceae); SHANG ZUO ZHOU ZHANG YA CAI; Tosa Swertia\*. Isolated compounds: 20511.
- T6241 *Swietenia mahogany* (Meliaceae); TAO HUA XIN MU; West Indian Mahogany. Isolated compounds: 4772, 10768, 20516, 20517, 20518, 20519, 20520, 20521, 20522.
- T6242 *Symphonia globulifera* (Clusiaceae); KA MAI LONG XIN FO NI A; Cameroon Symphonia\*. Isolated compounds: 1135, 8555, 8556, 8557, 8558, 20526.
- T6243 *Symphoricarpos* sp. (Caprifoliaceae). Isolated compounds: 7944.
- T6244 *Symphytum asperum* (Boraginaceae); CU XI MEN FEI CAO; Rough Comfrey. Isolated compounds: 9316, 12535.
- T6245 *Symphytum caucasicum* (Boraginaceae); XIN FEI CAO; Caucasian Comfrey. Isolated compounds: 6684, 6686.
- T6246 *Symphytum officinale* (Boraginaceae); XI MEN FEI CAO; Comfrey. Isolated compounds: 6684, 9316, 12420, 12535, 20525, 20527.
- T6247 *Symphytum orientale* (Boraginaceae); DONG FANG XI MEN FEI CAO; Soft Comfrey. Isolated compounds: 6684, 20527.
- T6248 *Symphytum tuberosum* (Boraginaceae); KUAI JING XI MEN FEI CAO; Tuberous Comfrey. Isolated compounds: 6684.
- T6249 *Symphytum x uplandicum* (Boraginaceae); E GUO XI MEN FEI CAO; Russian Comfrey. Isolated compounds: 13235, 20527.
- T6250 *Symplocos caudata* (Symplocaceae); SHAN FAN GEN; Caudate Sweetleaf Root. Used part: root. TCM Effects: To clear heat and disinherit damp, cool blood and stanch bleeding, dispel wind and relieve pain. TCM Indications: Jaundice, diarrhea, dysentery, flooding, wind-fire toothache, headache, wind-damp impediment pain. Isolated compounds: 4680, 5583, 6273, 8681, 10666, 11083, 20446, 20546, 21714, 21923.
- T6251 *Symplocos caudata* (Symplocaceae); SHAN FAN YE; Caudate Sweetleaf Leaf. Used part: leaf. TCM Effects: To clear heat and promote contraction. TCM Indications: Tuberculosis and hemoptysis, hematochezia, chronic dysentery, acute tonsillitis, acute otitis media, wind eye with ulceration of eyelid rim. Isolated compounds: 14552, 14553.

- T6252 *Symplocos chinensis* (Symplocaceae); HUA SHAN FAN; Chinese Sweetleaf. Used part: root. TCM Effects: To clear heat and resolve toxin, transform phlegm and interrupt malaria, free network vessels and relieve pain. TCM Indications: Common cold with fever, diarrhea and dysentery, swelling of sores and boils, poisonous snake bites, malaria, pain in sinews and bones, knocks and falls. Isolated compounds: 20540, 20541, 20542, 20543, 20544, 20545.
- T6253 *Symplocos glomerata* (Symplocaceae); TUAN HUA SHAN FAN; Glomerule Sweetleaf. Isolated compounds: 20529, 20530, 20531, 20532, 20533, 20534, 20535, 20536, 20537, 20538, 20539.
- T6254 *Symplocos racemosa* (Symplocaceae); ZHU ZI SHU; Racemose Sweetleaf. Isolated compounds: 2270, 9234, 19192, 20528, 20547, 20548, 20549.
- T6255 *Synechocytis* sp. (Chroococcaceae). Isolated compounds: 15242.
- T6256 *Syneilesis palmata* (Asteraceae); TU ER SAN; *Syneilesis*\*. Isolated compounds: 20551.
- T6257 *Syngnathus acus* JIAN HAI LONG; Acute Syngnathus\*. Used part: meat or whole fish. TCM Effects: To supplement kidney and invigorate yang, dissipate binds and disperse swelling. TCM Indications: Impotence, emission, sterility, kidney vacuity asthma, concretion conglomeration accumulation and gathering, scrofula, goiter and carcinoma of neck, knocks and falls, swollen welling abscess and clove sores. Isolated compounds: 17127.
- T6258 *Syringa afghanica* (Oleaceae); A FU HAN DING XIANG; Afghanistan Lilac\*. Isolated compounds: 6917, 19112, 19113, 19114, 19115, 19116, 19117, 19118, 19119, 20553.
- T6259 *Syringa amurensis* [Syn. *Syringa reticulata* var. *amurensis*] (Oleaceae); BAO MA ZI; Amur Lilac. Used part: Bark, branch and trunk. TCM Effects: To diffuse lung and transform phlegm, relieve cough and calm asthma, disinhibit water. TCM Indications: Chronic bronchitis, asthma, edema due to heart disease. Isolated compounds: 8071, 8737, 8738, 8739, 10819, 12524, 12829, 14733, 15873, 15874, 19626.
- T6260 *Syringa oblata* (Oleaceae); ZI DING XIANG; Early Lilac. Used part: leaf and bark. TCM Effects: To clear heat and resolve toxin, disinhibit damp and abate jaundice. TCM Indications: Acute diarrhea, icterohepatitis, acute conjunctivitis, sores. Isolated compounds: 4135, 20569.
- T6261 *Syringa pinnatifolia* (Myrtaceae); YU YE DING XIANG; Pinnateleaf Lilac. Used part: root or branch and trunk. TCM Effects: To warm center, downbear qi, warm kidney. TCM Indications: Cold pain in stomach duct and abdomen, cold asthma, prolapse of uterus, prolapse of rectum. Isolated compounds: 22984.  
*Syringa reticulata* var. *amurensis* = *Syringa amurensis*
- T6262 *Syringa vulgaris* (Myrtaceae); OU DING XIANG; Common Lilac. Isolated compounds: 20560.
- T6263 *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*] (Myrtaceae); DING XIANG; Clove Tree. Used part: flower bud. TCM Effects: To warm center and downbear counterflow, warm kidney and invigorate yang. TCM Indications: Stomach cold with retching counterflow, hiccough, cold pain in stomach duct and abdomen, reduced food intake and diarrhea, kidney vacuity impotence, vacuity cold in lumbus and knees, yin flat abscess. Isolated compounds: 391, 2222, 2273, 3241, 3301, 3488, 7518, 7520, 7521, 7524, 9669, 11411, 11419, 11420, 13848, 14668, 14718, 16050, 18679, 20389, 20910, 22336.
- T6264 *Syzygium buxifolium* (Myrtaceae); CHI NAN; Boxleaf Syzygium. Used part: root or root cortex. TCM Effects: To boost kidney and settle asthma, fortify spleen and disinhibit damp, expel wind and quicken blood, resolve toxin and disperse swelling. TCM Indications: Edema, asthma, strangury-turbidity, urethral stone, dysentery, hepatitis, prolapse of uterus, wind-damp pain, testitis, hemorrhoids, swollen welling abscess, burns and scalds, painful swelling from knocks and falls. Isolated compounds: 17696, 22270.
- T6265 *Syzygium cordatum* (Myrtaceae); XIN XING PU TAO; Cordate Syzygium\*. Isolated compounds: 8095.  
*Syzygium cumin* = *Eugenia jambolana*
- T6266 *Syzygium cumini* (Myrtaceae); YANG SHI GUO; Duhai. Used part: fruit. TCM Effects: To constrain lung and settle asthma, engender liquid, astringe intestines. TCM Indications: Taxation damage cough, vacuity asthma, fluid damage and thirst, chronic diarrhea and dysentery. Isolated compounds: 4446, 7852.
- T6267 *Syzygium jambos* (Myrtaceae); PU<sup>(3)</sup> TAO; Roseapple. Used part: pericarp. TCM Effects: To fortify spleen and warm stomach, supplement lung and relieve cough, break blood and disperse swelling. TCM Indications: Stomach cold and hiccough, spleen vacuity diarrhea, chronic dysentery, lung vacuity cold cough, flat abscess. Isolated compounds: 3303, 5011, 13456.
- T6268 *Syzygium samarangense* (Myrtaceae); YANG PU TAO YE; Samalanga Syzygium. Used part: leaf or bark. TCM Effects: To drain fire and resolve toxin, dry damp and resolve toxin. TCM Indications: Mough and tongue sores, goose-mouth sore, damp-erosion of sores, pudendal itch. Isolated compounds: 5048, 5857, 6923, 10399, 13628, 14676, 15170, 15180, 15181, 15184, 15192, 17403, 18317, 20331, 20394, 22287.

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- T6269 *Tabebuia avellanedae* (Apocynaceae); HE SE ZHONG HUA SHU. Isolated compounds: 1284, 6201, 6205, 6281, 6286, 6287, 9818, 9819, 10606, 10618, 10621, 11146, 11147, 13850, 21927.
- T6270 *Tabebuia impetiginosa* (Apocynaceae); BAN ZHEN ZHONG HUA SHU. Isolated compounds: 6206, 6274, 6281, 6286, 6287, 10606, 10618, 10622, 13949, 14055, 16739, 16740, 21894, 21895, 21925, 21927.
- T6271 *Tabernaemontana chartacea* (Apocynaceae); ZHI ZHI SHAN MA CHA. Isolated compounds: 16966.
- T6272 *Tabernaemontana corymbosa* (Apocynaceae); SAN FANG HUA XU HONG YUE GUI; Corymb Rose-bay\*. Isolated compounds: 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000, 4001, 4002, 4003, 7294, 9933, 9934, 10095.
- T6273 *Tabernaemontana holstii* (Apocynaceae); HE ER TI SHAN MA CHA. Isolated compounds: 16966.
- T6274 *Tabernaemontana johnstonii* (Apocynaceae); YUE HAN SI TONG SHAN MA CHA. Isolated compounds: 16966, 20576.
- T6275 *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*] (Taccaceae); JIAN GEN SHU; Arrowroot Tacca. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, rectify qi and relieve pain. TCM Indications: Gastroenteritis, gastric ulcer, duodenal ulcer, indigestion,

dysentery, hepatitis, sore and boil, swelling pain in throat, toxin swelling of sores. Isolated compounds: 3478, 3479, 5774, 5775, 5776, 5781, 5815, 5816, 5817, 5912, 5913, 8650, 8688, 8702, 8703, 8704, 8707, 10725, 10726, 18719, 20221, 20223, 20596, 20597, 20598.

*Tacca esquirolii* = *Tacca chantrieri*

*Tacca minor* = *Tacca chantrieri*

- T6276 *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*] (Taccaceae); LIE GUO SHU; Lobedfruit Tacca. Used part: tuber. TCM Effects: To cool blood and disperse stasis, eliminate inflammation and relieve pain. TCM Indications: Peptic ulcer, enteritis, tuberculosis, pertussis, knocks and falls, bleeding due to external injury, sore pharynx, toothache, swollen welling abscess. Isolated compounds: 20587, 20588, 20589, 20590, 20591, 20592, 20593, 20594, 20595.
- T6277 *Tadehagi triquetrum* (Fabaceae); HU LU CHA; Triquetrous Tadehagi. Used part: branch-leaf. TCM Effects: To clear heat and resolve toxin, disperse accumulation and disinhibit damp, kill worms. TCM Indications: Common cold with fever, swelling pain in throat, nephritis, icterohepatitis, enteritis, bacillary dysentery, vomiting in pregnancy, ancylostomiasis. Isolated compounds: 20599.
- T6278 *Tagetes erecta* (Asteraceae); WAN SHOU JU; Aztec Marigold. Used part: inflorescence. TCM Effects: To clear heat and resolve toxin, relieve cough and transform phlegm. TCM Indications: Infection of upper respiratory tract, pertussis, conjunctivitis, stomatitis, toothache, dizziness, infant fright wind, amenorrhea, blood stasis and abdominal pain, swelling toxin of welling abscess and sore. Isolated compounds: 2017, 2783, 7441, 7821, 9290, 10273, 13126, 14602, 17263, 17264, 20608, 21018.
- T6279 *Tagetes erecta* (Asteraceae); WAN SHOU JU YE; Aztec Marigold Leaf. Used part: leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Innominate toxin swelling, gan disease, welling abscess, sore, clove sore. Isolated compounds: 12018.
- T6280 *Tagetes maxima* (Asteraceae); ZUI DA WAN SHOU JU; Maxima Marigold\*. Isolated compounds: 3389, 10272, 16728, 18306, 18307, 18310, 18316.
- T6281 *Tagetes minuta* (Asteraceae); WEI XIAO WAN SHOU JU; Southern Marigold. Isolated compounds: 2284, 2783, 17090.
- T6282 *Tagetes patula* (Asteraceae); KONG QUE CAO; French Marigold. Used part: whole herb. TCM Effects: To clear heat and disinhibit damp, suppress cough. TCM Indications: Cough, dysentery. Isolated compounds: 834, 9290, 16728, 18305, 18316, 19027, 19039, 22520.
- T6283 *Tagetes* sp. (Asteraceae). Isolated compounds: 10775.
- T6284 *Taiwania cryptomerioides* (Taxodiaceae); TAI WAN SHAN; Cryptomeria-like Taiwania. Isolated compounds: 263, 1621, 2848, 2854, 2856, 2857, 2857, 2858, 4310, 4929, 5317, 5998, 5999, 6000, 6099, 6367, 9323, 9746, 10259, 10360, 10455, 10456, 11471, 12223, 14073, 15138, 15141, 16363, 16394, 16416, 16417, 19427, 20629, 20630, 20631, 20632, 20633, 20634, 20635, 20636, 20637, 20638, 20639, 20640, 20641, 20642, 20643, 20644, 21679, 21839.
- T6285 *Tamarindus indica* (Fabaceae); SUAN JIAO; Tamarind Fruit. Used part: fruit. TCM Effects: To clear heat and resolve toxin, harmonize stomach and disperse accumulation. TCM Indications: Summerheat stroke, inappetence, child gan accumulation, vomiting in pregnancy, constipation. Isolated compounds: 9616, 11773, 16196, 17090, 17425, 20715, 22581.
- T6286 *Tamarix chinensis* (Tamaricaceae); CHENG LIU; Chinese Tamarisk. Equivalent plant: *Tamarix ramosissima*. Used part: tender branch-leaf. TCM Effects: To course wind and resolve exterior, disinhibit urine and resolve toxin. TCM Indications: Non-eruption of measles, wind papule itching, common cold, cough and asthma, wind-damp bone pain. Isolated compounds: 8095, 11648, 12015, 12045, 18317, 18348, 20661, 20662, 20663.
- T6287 *Tamarix gallica* (Tamaricaceae); FA GUO CHENG LIU; French Tamarisk. Isolated compounds: 13504.
- T6288 *Tamarix hispida* (Tamaricaceae); GANG MAO CHENG LIU; Kashgar Tamarisk. Isolated compounds: 5791, 11648, 18682.
- T6289 *Tamarix nilotica* (Tamaricaceae); NI LUO HE CHENG LIU; Nilotic Tamarisk\*. Isolated compounds: 8095, 15600.
- T6290 *Tamarix ramosissima* (Tamaricaceae); DUO ZHI CHENG LIU; Branchy Tamarisk. Used part: tender branch-leaf. TCM Effects: See *Tamarix chinensis*. TCM Indications: See *Tamarix chinensis*. Isolated compounds: 18348.
- T6291 *Tamus communis* (Dioscoreaceae); JIANG GUO SHU YU; Black Bryony. Isolated compounds: 11246, 13243.
- T6292 *Tanacetum longifolium* (Asteraceae); CHANG YE AI JU; Longleaf Tansy. Isolated compounds: 9412, 20666.
- T6293 *Tanacetum microphyllum* (Asteraceae); XIAO YE JU HAO; Small-leaf Tansy\*. Isolated compounds: 3388, 5987, 9765, 12044, 19312.
- T6294 *Tanacetum parthenium* (Asteraceae); CHU AI JU; Feverfew. Isolated compounds: 3076, 19312.
- T6295 *Tanacetum sibiricum* [Syn. *Filifolium sibiricum*] (Asteraceae); SI BO LI YA AI JU; Siberian Tansy. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, quiet spirit, regulate menstruation. TCM Indications: Ardent fever (hyperpyrexia), palpitation, sleepless, menstrual disorder, swollen welling abscess and sores. Isolated compounds: 9604.
- T6296 *Tanacetum* sp. (Asteraceae). Isolated compounds: 19308.
- T6297 *Tanacetum* spp. (compositae). Isolated compounds: 16675, 17719.
- T6298 *Tanacetum vulgare* (Asteraceae); JU HAO; Common Tansy. Isolated compounds: 19312, 21350.
- T6299 *Tanghinia venenifera* (Apocynaceae); TAN MANG GUO. Isolated compounds: 20671.
- T6300 *Taraxacum formosanum* (Asteraceae); TAI WAN PU GONG YING; Taiwan Dandelion\*. Isolated compounds: 874, 1284, 2887, 3551, 3983, 9815, 9818, 14443, 14526, 14652, 14734, 14804, 15526, 19983, 20369, 20554, 20566, 20692, 20693, 20694, 20695, 20696, 20714, 22332, 22336.
- T6301 *Taraxacum mongolicum* (Asteraceae); PU GONG YING; Mongolian Dandelion. Used part: aerial parts. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling, disinhibit urine and free strangury. TCM Indications: Epidemic parotitis, infection of upper respiratory tract, tonsillitis, laryngitis, sore pharynx, mastitis, hepatitis, swelling toxin of clove sore, mammary welling abscess, scrofula, red eyes, pulmonary welling abscess, damp-heat jaundice, heat strangury with inhibited pain. Isolated compounds: 2887, 3551, 3589, 20704.
- T6302 *Taraxacum obovatum* (Asteraceae); DAO LUAN YE PU GONG

- YING GEN; Obovateleaf Dandelion Root. Isolated compounds: 4749, 4750, 5724, 10319, 20073, 20714.
- T6303 *Taraxacum officinale* (Asteraceae); YAO YONG PU GONG YING; Official Dandelion. Isolated compounds: 1113, 1476, 1492, 1749, 2887, 3434, 3551, 3589, 3674, 4190, 4680, 6452, 7768, 7821, 7853, 7971, 12891, 13126, 13137, 13687, 16066, 17515, 18317, 19983, 20366, 20369, 20446, 20704, 20705, 20711, 22520.  
*Taxillus chinensis* = *Loranthus parasiticus*
- T6304 *Taxillus levinei* (Loranthaceae); XIU MAO JI SHENG; Rustyhair Taxillus. Used part: branch-leaf. TCM Effects: To clear lung and relieve cough, dispel wind-damp. TCM Indications: Lung heat cough, wind-damp pain in lumbus and legs, sore and boil. Isolated compounds: 5763, 11642.
- T6305 *Taxodium distichum* (Taxodiaceae); LUO YU SHAN; Deciduous Cypress. Isolated compounds: 20809, 20810.
- T6306 *Taxodium mucronatum* (Taxodiaceae); MO XI GE LUO YU SHAN; Mexican Cypress\*. Isolated compounds: 1030, 6314, 17588.
- T6307 *Taxus baccata* (Taxaceae); JIANG GUO ZI SHAN; Common Yew. Isolated compounds: 152, 157, 158, 284, 285, 355, 369, 519, 2072, 2073, 2076, 2077, 3402, 3697, 3698, 3699, 3701, 3719, 3720, 3721, 4704, 4711, 4713, 4721, 4722, 4723, 4730, 4737, 4780, 4783, 4784, 4798, 4804, 4810, 4812, 4852, 5138, 5139, 5140, 5293, 5294, 5318, 5331, 5538, 6880, 9811, 9812, 9865, 9866, 9867, 9965, 10475, 10739, 14198, 14199, 14739, 18815, 20741, 20742, 20743, 20770, 20793, 20795, 20797, 20806, 20811, 20812, 20814, 20840, 20905, 21160, 21529, 21602, 22845, 22847, 22848, 22849, 22851, 22852.
- T6308 *Taxus brevifolia* (Taxaceae); DUAN YE HONG DOU SHAN; Pacific Yew. Isolated compounds: 2256, 2258, 2604, 4722, 4723, 4729, 4731, 4732, 4733, 4765, 4779, 4849, 5348, 5383, 5459, 5460, 5881, 5882, 7027, 20761, 20762, 20779, 20803, 20811, 20849.
- T6309 *Taxus canadensis* (Taxaceae); JIA NA DA HONG DOU SHAN; Canadian Yew. Isolated compounds: 362, 367, 2236, 2237, 3056, 4725, 4726, 4744, 4781, 4786, 5138, 5304, 5310, 5315, 5328, 5329, 5330, 6157, 6850, 6881, 9763, 9963, 10742, 10777, 10778, 10781, 20743, 20748, 20749, 20750, 20751, 20752, 20822, 20863, 21523, 21603.
- T6310 *Taxus chinensis* (Taxaceae); HONG DOU SHAN; Chinese Yew. Isolated compounds: 156, 363, 368, 2249, 2250, 2252, 2253, 2255, 2265, 3714, 3716, 3717, 4705, 4736, 4737, 4764, 4776, 4777, 4778, 4849, 4853, 4854, 4980, 5294, 5318, 5323, 5331, 6395, 6934, 9505, 9813, 9960, 10739, 20736, 20737, 20743, 20744, 20761, 20764, 20768, 20769, 20770, 20771, 20772, 20773, 20774, 20775, 20776, 20777, 20778, 20779, 20790, 20795, 20797, 20798, 20802, 20811, 20817, 20818, 20866, 20867, 20875, 21160, 21516, 21527, 21529, 21531, 21704, 21705.
- T6311 *Taxus cuspidata* (Taxaceae); ZI SHAN; Japanese Yew. Used part: branchlet-leaf. TCM Effects: To disinhibit urine and free channels, anticancer. TCM Indications: Kidney disease, diabetes mellitus, carcinoma of ovary, carcinoma of mammary glands. Isolated compounds: 2073, 2074, 3721, 4708, 4782, 6679, 6884, 8609, 10738, 10743, 11477, 11728, 11732, 14651, 15664, 17700, 19514, 20738, 20739, 20740, 20743, 20762, 20780, 20781, 20782, 20783, 20784, 20785, 20786, 20787, 20788, 20789, 20790, 20794, 20797, 20798, 20799, 20800, 20801, 20802, 20807, 20811, 20813, 20840, 20841, 20842, 20843, 20844, 20845, 20846, 20847, 20848, 20849, 20851, 20852, 20853, 20854, 20855, 20856, 20857, 20858, 20859, 20860, 20861, 20862, 20863, 20864, 20865, 20868, 20869, 20870, 20871, 20872, 20873, 21529.
- T6312 *Taxus mairei* (Taxaceae); MEI LI HONG DOU SHAN; Maire Yew. Used part: seed. TCM Effects: To disperse accumulation, expel roundworm. TCM Indications: Food accumulation, ascariasis. Isolated compounds: 120, 151, 2074, 3715, 3717, 4708, 4734, 4735, 4785, 4981, 4984, 5294, 5320, 5321, 9811, 10476, 10740, 10780, 14199, 20647, 20745, 20746, 20797, 20800, 20802, 20811, 20819, 20820, 20821, 20822, 20823, 20824, 20825, 20826, 20827, 20828, 20829, 20830, 20831, 20832, 20834, 20835, 20836, 20837, 20838, 20839, 20840, 21029, 22951.
- T6313 *Taxus media* (Taxaceae); JIE ZHI HONG DOU SHAN; Media Yew. Isolated compounds: 2074, 2077, 4793, 4980, 4981, 20811.
- T6314 *Taxus* sp. (Taxaceae). Isolated compounds: 2075, 2078, 20850.
- T6315 *Taxus* spp. (Taxaceae). Isolated compounds: 20805.
- T6316 *Taxus sumatrana* (Taxaceae); SU MEN DA LA HONG DOU SHAN; Sumatran Yew. Isolated compounds: 531, 2073, 3402, 4722, 4736, 4762, 4763, 4765, 4787, 6140, 9812, 9961, 10558, 20718, 20719, 20720, 20721, 20722, 20723, 20724, 20725, 20739, 20765, 20796, 20800, 20803, 20811, 20822, 20823, 20833, 20834, 20835, 20836, 20854, 22630.
- T6317 *Taxus wallichiana* (Taxaceae); XI MA LA YA HONG DOU SHAN; Himalayan Yew. Isolated compounds: 150, 337, 519, 4702, 4704, 4707, 4783, 4784, 4801, 4802, 4803, 4808, 4851, 5478, 6315, 7046, 9811, 9812, 9962, 20739, 20753, 20754, 20755, 20756, 20757, 20758, 20811, 20812, 21028, 21161, 21533, 22630.
- T6318 *Taxus x media* (Taxaceae); ZA JIAO JIE ZHI HONG DOU SHAN; Media Yew (hybrid). Isolated compounds: 2235, 4706, 4710, 4724, 4805, 4807, 4813, 6868, 14739, 20747, 20776, 20813, 20814, 20870.
- T6319 *Taxus yunnanensis* (Taxaceae); YUN NAN HONG DOU SHAN; Yunnan Yew. Isolated compounds: 129, 133, 176, 182, 257, 288, 293, 328, 2073, 2073, 2075, 3980, 3983, 4636, 4637, 4638, 4639, 4704, 4705, 4708, 4722, 4726, 4727, 4728, 4766, 4781, 4787, 4788, 4850, 4855, 4979, 4980, 5145, 5289, 5348, 6884, 7028, 9626, 9627, 9628, 9811, 9812, 10314, 10779, 10782, 11732, 19618, 20758, 20759, 20760, 20761, 20762, 20763, 20764, 20765, 20766, 20767, 20786, 20787, 20796, 20797, 20800, 20802, 20804, 20806, 20811, 20812, 20813, 20815, 20816, 20824, 20840, 20850, 20851, 20869, 20871, 20874, 20875, 20876, 20877, 20878, 20879, 20880, 20881, 20882, 20883, 20884, 20885, 21515, 21529, 21686, 22336, 22846, 22853, 22939, 22950, 22951, 22952.
- T6320 *Teclea grandifolia* (Rutaceae); DA YE YOU MU YUN XIANG. Isolated compounds: 20895.
- T6321 *Teclea natalensis* (Rutaceae). Isolated compounds: 20893, 20894.
- T6322 *Teclea nobilis* (Rutaceae); GAO GUI YOU MU YUN XIANG. Isolated compounds: 1267, 3547, 7808, 9227, 11733, 14620, 15638, 20892, 20893.
- T6323 *Teclea oubanguiensi* (Rutaceae). Isolated compounds: 20895.
- T6324 *Tecoma stans* (Bignoniaceae); HUANG ZHONG HUA; Florida Yellowtrumpet. Isolated compounds: 582, 17513, 20896, 20898.
- T6325 *Tectona grandis* (Verbenaceae); YOU MU; Common Teak. Used part:

- stem-leaf. TCM Effects: To harmonize center and check vomiting, dispel wind and relieve itch. TCM Indications: Nausea and vomiting, wind papule itching. Isolated compounds: 967, 3615, 5188, 6015, 10313, 12503, 14144.
- T6326 *Telekia speciosa* (Compositae); MEI LI TE LE JU. Used part: whole herb. TCM Indications: Wind-damp. Isolated compounds: 1888, 11203, 20906.
- T6327 *Telotoxicum peruvianum*. Isolated compounds: 15792.
- T6328 *Tellima grandifolia* (Saxifragaceae); XIN SHAO NA CAO; Fringecups. Isolated compounds: 7518, 20910.
- T6329 *Telosma procumbens* (Asclepiadaceae); WO JING YE LAI XIANG; Creeping Telosma. Isolated compounds: 20912, 20913, 20914, 20915, 20916, 20917, 20918, 20919, 20920, 20921, 20922, 20923, 20924, 20925, 20926, 20927, 20928, 20929.
- T6330 *Tephrosia kirilowii* [Syn. *Senecio integrifolius* var. *fauriei*] (Asteraceae); GOU SHE CAO; Kirilow Groundsel Herb. Used part: herb. TCM Effects: To clear heat, disinhibit water, kill worms. TCM Indications: Nephritis with edema, open pus sore of lung, swollen boil, scab sore. Isolated compounds: 17546.
- T6331 *Tephrosia aequilata* (Fabaceae); KEN NI YA HUI YE; Kenya Tephrosia\*. Isolated compounds: 6349.
- T6332 *Tephrosia calophylla* (Fabaceae); MEI LI YE HUI MAO DOU; Beautiful-leaf Tephrosia\*. Isolated compounds: 1935, 14465, 20964.
- T6333 *Tephrosia crassifolia* (Fabaceae); HOU YE HUI MAO DOU; Crassleaf Tephrosia\*. Isolated compounds: 4212, 4213.
- T6334 *Tephrosia elata* (Fabaceae); GAO HUI MAO DOU; High Tephrosia\*. Isolated compounds: 20965, 22637.
- T6335 *Tephrosia hamiltonii* (Fabaceae); HAN MI ER DUN HUI YE; Hamilton Tephrosia\*. Isolated compounds: 18223.
- T6336 *Tephrosia hildebrandtii* (Fabaceae); XI SHI HUI MAO DOU; Hildebrandt Tephrosia\*. Isolated compounds: 9540.
- T6337 *Tephrosia noctiflora* (Fabaceae); YE HUA HUI MAO DOU; Long Inflorescence Tephrosia. Isolated compounds: 22158.
- T6338 *Tephrosia purpurea* (Fabaceae); HUI YE; Purple Tephrosia. Used part: whole herb. TCM Effects: To resolve exterior and clear heat, dry damp and resolve toxin. TCM Indications: Wind-heat common cold, eczema, dermatitis. Isolated compounds: 1403, 1404, 18218, 18223.
- T6339 *Tephrosia purpurea* (Fabaceae); HUI YE GEN; Purple Tephrosia Root. Used part: root. TCM Effects: To clear heat and disperse stagnation, move *qi* and relieve pain, contract damp and relieve itch. TCM Indications: Indigestion, gastritis, abdominal distention, stomachache, eczema, dermatitis. Isolated compounds: 4872, 4898, 10421, 10680, 14683, 17708, 18063, 18223, 18939, 20965, 21483.
- T6340 *Tephrosia* sp. (Fabaceae). Isolated compounds: 4872, 10680.
- T6341 *Tephrosia toxicaria* (Fabaceae); DU HUI MAO DOU; Toxic Tephrosia\*. Isolated compounds: 1436, 2280, 2282, 3602, 5595, 8278, 10430, 10741, 10741, 11504, 13097, 13571, 15887, 20485, 21483.
- T6342 *Tephrosia tunicata* (Fabaceae); BAO MO HUI MAO DOU; Tunicate Tephrosia\*. Isolated compounds: 22110.
- T6343 *Terminalia arborea* (Combretaceae); QIAO MU ZHUANG LAN REN; Arboreous Terminalia\*. Isolated compounds: 18202.
- T6344 *Terminalia arjuna* (Combretaceae); A JIANG LAN REN. Isolated compounds: 1733, 1734, 3303.
- T6345 *Terminalia calamansanai* (Combretaceae). Isolated compounds: 17754.
- T6346 *Terminalia chebula* (Combretaceae); HE ZI; Medicine Terminalia. Equivalent plant: *Terminalia chebula* var. *tomentella*. Used part: fruit. TCM Effects: To constrain lung and astringe intestines, downbear fire and disinhibit throat. TCM Indications: Chronic diarrhea and dysentery, hematochezia, prolapse of rectum, cough and asthma due to lung vacuity, incessant cough, aphonia due to throat pain. Isolated compounds: 1732, 3318, 3490, 3493, 4055, 4968, 6757, 7441, 8095, 8108, 16836, 18204, 18421, 19749, 20970, 20974, 20977, 21643.
- T6347 *Terminalia chebula* (Combretaceae); HE ZI YE; Medicine Terminalia Leaf. Used part: leaf. TCM Effects: To precipitate *qi* and disperse phlegm, allay thirst, check dysentery. TCM Indications: Enduring cough and aphonia, chronic diarrhea, chronic dysentery. Isolated compounds: 4968, 18421.
- T6348 *Terminalia chebula* var. *tomentella* (Combretaceae); WEI MAO HE ZI; *Terminalia chebula* var. *tomentella*. Used part: fruit. TCM Effects: See *Terminalia chebula*. TCM Indications: See *Terminalia chebula*. Isolated compounds: 20975, 21273.
- T6349 *Terminalia stuhlmannii* (Combretaceae); A KA XI A LAN REN; Acacia Terminalia\*. Isolated compounds: 10226.
- T6350 *Ternstroemia japonica* (Theaceae); RI BEN HOU PI XIANG; Japanese Clevera. Isolated compounds: 5241, 18699, 20980, 20981, 20982, 20983, 20984, 20985.
- T6351 *Tessaria integrifolia* (Asteraceae); QUAN YUAN YE TE SA JU. Isolated compounds: 5415, 11094, 11095, 11096, 11097, 11098.
- T6352 *Tetracentron sinense* (Tetracentraceae); SHUI QING SHU; Tetracentron. Isolated compounds: 21035, 21036.
- T6353 *Tetracera asiatica* (Dilleniaceae); XI YE TENG; Asian Tetracera. Used part: root or leaf. TCM Effects: To promote contraction and stem desertion, disperse swelling and relieve pain. TCM Indications: Enteritis, dysentery, prolapse of rectum, emission, knocks and falls. Isolated compounds: 2052, 18679, 18682.
- T6354 *Tetradium daniellii*. Isolated compounds: 10053.
- T6355 *Tetradymia glabrata* (Asteraceae); GUANG SI SHI JU; Littleleaf Horsebrush. Isolated compounds: 10238, 21051.
- T6356 *Tetrapanax papyriferus* (Araliaceae); TONG HUA GEN; Ricepaperplant Root. Used part: root. TCM Effects: To clear heat and disinhibit urine, rectify *qi* and disperse food, quicken blood and promote milk. TCM Indications: Edema, strangury syndrome, food accumulation distention and fullness, lump glomus, wind-damp impediment pain, menstrual disorder, galactostasis. Isolated compounds: 14633, 16046, 16047, 18712.
- T6357 *Tetrapanax papyriferus* (Araliaceae); TONG TUO MU; Ricepaperplant. Used part: stem marrow. TCM Effects: To clear heat and disinhibit water, free milk. TCM Indications: Strangury with pain, inhibited urination, edema, jaundice, damp-heat disease, short voidings of reddish urine, postpartum scant milk, amenorrhea, Vaginal discharge. Isolated compounds: 1608, 16635, 16636, 16637, 16638, 16639, 16640, 16641, 16642, 16643, 16644, 16645, 16646, 16647, 17917, 17918.
- Tetraplodon bryoides* = *Tetraplodon mnioides*
- T6358 *Tetraplodon mnioides* [Syn. *Tetraplodon bryoides*; *Splachnum*

- nnioides*] (Spalchnaceae); BING CHI XIANG. Used part: plant body. TCM Effects: To calm and quiet spirit. TCM Indications: Disquieted spirit-mind, palpitation, sleepless, epilepsy, wind stroke with loss of speech. Isolated compounds: 11532, 15980.
- T6359 *Teucrium bidentatum* (Lamiaceae); ER CHI XIANG KE KE; Twodenntate Germander. Used part: root or whole herb. TCM Effects: To dispel wind, disinhibit damp, resolve toxin. TCM Indications: Common cold, headache, nasal congestion, dysentery, eczema, eczema leukoplakia. Isolated compounds: 21223, 21228.
- T6360 *Teucrium chamaedrys* (Lamiaceae); SHI CAN XIANG KE KE; Chamaedrys Germander. Isolated compounds: 7124, 21214, 21215.
- T6361 *Teucrium fruticans* (Lamiaceae); GUAN CONG XIANG KE KE; Fluticose Germander\*. Isolated compounds: 425, 4742, 7972, 10130, 10131, 10132, 11430.
- Teucrium japonicum* var. *pilosum* = *Teucrium pilosum*
- T6362 *Teucrium marum* (Lamiaceae); MA SHI XIANG KE KE; Cat Thyme. Isolated compounds: 6550.
- T6363 *Teucrium montanum* (Lamiaceae); SHAN XIANG KE KE; Montane Germander\*. Isolated compounds: 524, 14946.
- T6364 *Teucrium orientale* (Lamiaceae); DONG FANG XIANG KE KE; Oriental Germander. Isolated compounds: 4789, 10761, 21217, 21218, 21219, 21220.
- T6365 *Teucrium pilosum* [Syn. *Teucrium japonicum* var. *pilosum*] (Lamiaceae); CHANG MAO XIANG KE KE; Pilose Germander. Used part: whole herb. TCM Effects: To dispel wind and effuse exterior, clear heat and resolve toxin, relieve itch. TCM Indications: Wind-heat common cold, sore swollen throat, mumps, pulmonary welling abscess, dysentery, lacquer sore, eczema, scab and lichen, wind papules [=rubella]. Isolated compounds: 21216, 21221.
- T6366 *Teucrium polium* (Lamiaceae); HUI BAI SHI CAN; Narrowleaf Germander. Isolated compounds: 486, 21226, 21227.
- T6367 *Teucrium quadrifarium* (Lamiaceae); TIE ZHOU CAO; Fourfile Germander. Used part: whole herb, root or leaf. TCM Effects: To dispel wind and resolve summerheat, disinhibit damp and disperse swelling, cool blood and resolve toxin. TCM Indications: Wind-heat common cold, summerheat stroke and anidrosis, lung heat cough asthma, pulmonary welling abscess, heat toxin dysentery, edema, wind-damp pain, taxation damage, blood ejection, hematochezia, mammary welling abscess, innominate toxin swelling, wind papules, eczema, knocks and falls, bleeding due to external injury, poisonous snake bite, bee sting. Isolated compounds: 21229.
- T6368 *Teucrium scordium* (Lamiaceae); SUAN WEI XIANG KE KE; Garlicsmell Germander\*. Isolated compounds: 524, 525, 10762, 21213.
- T6369 *Teucrium scorodonia* (Lamiaceae); LIN SHI CAN; Wood Sage. Isolated compounds: 12420.
- T6370 *Teucrium tomentosum* (Lamiaceae); RONG MAO XIANG KE KE; Tomentose Germander. Isolated compounds: 525, 5342, 10762, 14946, 21213, 21222, 21224.
- T6371 *Teucrium viscidum* var. *miquelianum* (Lamiaceae); MAN HUO XIANG. Isolated compounds: 21224.
- T6372 *Thalictrum acutifolium* (Ranunculaceae); JIAN YE TANG SONG CAO; Sharpleaf Meadowrue. Used part: root and rhizome. TCM Effects: See *Thalictrum faberi*. TCM Indications: See *Thalictrum faberi*. Isolated compounds: 596, 14484, 21888.
- T6373 *Thalictrum alpinum* (Ranunculaceae); GAO SHAN TANG SONG CAO; Alpine Meadowrue. Used part: root and rhizome. TCM Effects: To clear heat and drain fire, resolve toxin. TCM Indications: Headache and red eyes, diarrhea, dysentery, sores. Isolated compounds: 15787, 21251, 21259, 21268, 21269.
- T6374 *Thalictrum atriplex* (Ranunculaceae); XIA XU TANG SONG CAO; Narrowraceme Meadowrue. Used part: rhizome and root. TCM Effects: To clear heat and resolve toxin, cool liver, check dysentery. TCM Indications: Swelling and toxin of sore and welling abscess, damp-heat jaundice, dysentery, conjunctivitis. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21253.
- T6375 *Thalictrum baicalense* (Ranunculaceae); BEI JIA ER TANG SONG CAO; Baikal Meadowrue. Used part: rhizome and root. TCM Effects: See *Thalictrum foliolosum*. TCM Indications: See *Thalictrum foliolosum*. Isolated compounds: 8513, 13374, 19983.
- T6376 *Thalictrum cultratum* (Ranunculaceae); GAO YUAN TANG SONG CAO; Highland Meadowrue. Used part: rhizome and root. TCM Effects: See *Thalictrum foliolosum*. TCM Indications: See *Thalictrum foliolosum*. Isolated compounds: 21246, 21248, 21265.
- T6377 *Thalictrum dasycarpum* (Ranunculaceae); CU GUO TANG SONG CAO; Purple Meadowrue. Isolated compounds: 4121, 12561, 13374, 21239, 21251.
- T6378 *Thalictrum delavayi* (Ranunculaceae); PIAN CHI TANG SONG CAO; Delavay Meadowrue. Used part: root and rhizome. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Damp-heat diarrhea dysentery, jaundice, leukorrhea, wind-fire toothache, red eyes with gall, toxin swelling of sores. Isolated compounds: 18057.
- T6379 *Thalictrum dioicum* (Ranunculaceae); YI XING TANG SONG CAO; Early Meadowrue. Isolated compounds: 16816, 21239.
- T6380 *Thalictrum elegans* (Ranunculaceae); XIAO YE TANG SONG CAO; Small-leaf Meadowrue. Isolated compounds: 21187.
- T6381 *Thalictrum faberi* (Ranunculaceae); DA YE TANG SONG CAO; Faber Meadowrue. Equivalent plant: *Thalictrum acutifolium*, *Thalictrum fortunei*. Used part: root and rhizome. TCM Effects: To clear heat, drain fire, resolve toxin. TCM Indications: Dysentery, diarrhea, red eyes with gall, damp-heat jaundice. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21235, 21251, 21253, 21261.
- T6382 *Thalictrum fargesii* (Ranunculaceae); CHENG KOU TANG SONG CAO; Farges Meadowrue. Isolated compounds: 21251.
- T6383 *Thalictrum fendleri* (Ranunculaceae); FEN SHI TANG SONG CAO; Fendler's Meadowrue. Isolated compounds: 9441, 14251, 21253.
- T6384 *Thalictrum filamentosum* (Ranunculaceae); HUA TANG SONG CAO; Filamentary Meadowrue. Isolated compounds: 21246.
- T6385 *Thalictrum flavum* (Ranunculaceae); HUANG TANG SONG CAO; Maidenhair Meadowrue. Used part: rhizome and root. TCM Effects: See *Thalictrum foliolosum*. TCM Indications: See *Thalictrum foliolosum*. Isolated compounds: 21239.
- T6386 *Thalictrum foetidum* (Ranunculaceae); XIANG TANG SONG CAO; Tibetan Meadowrue. Used part: root and rhizome. TCM Effects: To

- clear heat and dry damp, resolve toxin. TCM Indications: Damp-heat dysentery, jaundice, red eyes with gall, swollen welling abscess, sore and boil, wind-damp-heat impediment. Isolated compounds: 4492, 4680, 7793, 8513, 9235, 11256, 11736, 13374, 13836, 19087, 21235, 21236, 21252, 21267.
- T6387 *Thalictrum foliolosum* (Ranunculaceae); MA WEI LIAN; Manyleaf Meadowrue. Equivalent plant: *Thalictrum baicalense*, *Thalictrum flavum*, *Thalictrum cultratum*, *Thalictrum glandulosissimum*. Used part: rhizome and root. TCM Effects: To clear heat and dry damp, drain fire and resolve toxin. TCM Indications: Influenza, fever in children, common cold with fever, measles papules, malaria, damp-heat diarrhea dysentery, jaundice, red eyes with gall. Isolated compounds: 930, 2300, 2303, 3934, 4032, 4290, 9441, 11736, 11851, 13374, 15787, 16439, 16441, 16555, 17983, 18655, 21234, 21253, 21254, 21263, 21268, 21269, 22771.
- T6388 *Thalictrum fortunei* (Ranunculaceae); HUA DONG TANG SONG CAO; Fortune Meadowrue. Used part: root and rhizome. TCM Effects: See *Thalictrum fabri*. TCM Indications: See *Thalictrum fabri*. Isolated compounds: 8626, 8627, 8628, 8629, 21256.
- T6389 *Thalictrum glandulosissimum* (Ranunculaceae); JIN SI MA WEI LIAN; Gold-enthread Meadowrue. Used part: rhizome and root. TCM Effects: See *Thalictrum foliolosum*. TCM Indications: See *Thalictrum foliolosum*. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21253.
- T6390 *Thalictrum glaucum* (Ranunculaceae); LV TANG SONG CAO; Glaucous Meadowrue\*. Isolated compounds: 21257.
- T6391 *Thalictrum hernandezii* (Ranunculaceae); HE SHI TANG SONG CAO; Hernandez Meadowrue\*. Isolated compounds: 9441.
- T6392 *Thalictrum honanense* (Ranunculaceae); HE NAN TANG SONG CAO; Honan Meadowrue. Isolated compounds: 631, 11851, 21254.
- T6393 *Thalictrum ichangense* [Syn. *Thalictrum tripeltatum*; *Thalictrum multipeltatum*] (Ranunculaceae); DUN YE TANG SONG CAO; Peltateleaf Meadowrue. Used part: whole herb or root. TCM Effects: To clear heat and resolve toxin, dry damp. TCM Indications: Damp-heat jaundice, damp-heat dysentery, infant fright wind, red eyes with gall, erysipelas wandering wind, goose-mouth sore, knocks and falls. Isolated compounds: 21246, 21259.
- T6394 *Thalictrum incidum* (Ranunculaceae); XIA YE TANG SONG CAO; Narrowleaf Meadowrue. Isolated compounds: 15881.
- T6395 *Thalictrum isopyroides* (Ranunculaceae); ZI JIN YE TANG SONG CAO; Corydalisleaf Meadowrue. Isolated compounds: 21263.
- T6396 *Thalictrum longistylum* (Ranunculaceae); CHANG ZHU TANG SONG CAO; Longstyle Meadowrue\*. Isolated compounds: 5100.
- T6397 *Thalictrum lucidum* (Ranunculaceae); TOU MING TANG SONG CAO; Lucid Meadowrue\*. Isolated compounds: 1769, 9597, 11851, 15881, 15885, 16439, 21240, 21251, 21257, 21270.
- T6398 *Thalictrum microgynum* (Ranunculaceae); XIAO GUO TANG SONG CAO; Smallfruit Meadowrue. Used part: root. TCM Effects: To clear heat and resolve toxin, disinhibit damp. TCM Indications: Yellow swelling in whole body, yellow eyes, knocks and falls. Isolated compounds: 930, 2300, 2303, 4032, 4290, 8513, 9441, 11736, 11851, 16414, 16439, 16555, 17983, 21246, 21253.
- T6399 *Thalictrum minus* (Ranunculaceae); XIAO TANG SONG CAO; Low Meadowrue. Isolated compounds: 1667, 13374, 14756, 15881, 20649, 21235, 21237, 21238, 21240, 21243, 21251, 21257, 21260, 21261, 21266, 21268, 21270.
- T6400 *Thalictrum minus* var. *adiantifolium* (Ranunculaceae); TIE XIAN JUE YE TANG SONG CAO; Maidenhair-like Meadowrue\*. Isolated compounds: 631, 15787, 21255.
- T6401 *Thalictrum minus* var. *hypoleucum* (Ranunculaceae); DONG YA TANG SONG CAO. Isolated compounds: 13374.  
*Thalictrum multipeltatum* = *Thalictrum ichangense*
- T6402 *Thalictrum omeiense* (Ranunculaceae); E MEI TANG SONG CAO; Omei Meadowrue. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dry damp, interrupt malaria. TCM Indications: Damp-heat jaundice, abdominal pain and diarrhea, red eyes with gall, malaria with chills and fever. Isolated compounds: 13836, 21265.
- T6403 *Thalictrum petaloideum* (Ranunculaceae); BAN RUI TANG SONG CAO; Petalformed Meadowrue. Used part: root and rhizome. TCM Effects: To clear heat, dry damp, resolve toxin. TCM Indications: Damp-heat diarrhea dysentery, jaundice, lung heat cough, red eyes with gall, swelling welling abscess and sore and boil, exudative dermatitis. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21253.
- T6404 *Thalictrum podocarpum* (Ranunculaceae); BING GUO TANG SONG CAO; Stalkedfruit Meadowrue\*. Isolated compounds: 5100, 5260, 9441, 21253, 21257.
- T6405 *Thalictrum polygamum* (Ranunculaceae); ZA XING TANG SONG CAO; Tall Meadowrue. Isolated compounds: 2304, 16816, 21239, 21257, 21266.
- T6406 *Thalictrum revolutum* (Ranunculaceae); WAI JUAN TANG SONG CAO; Waxy Meadowrue. Isolated compounds: 16816, 21239, 21251, 21257, 21266, 21268.
- T6407 *Thalictrum rugosum* (Ranunculaceae); ZOU WEN TANG SONG CAO; Rugose Meadowrue\*. Isolated compounds: 1667, 4121, 9597, 15787, 15885, 21234, 21251, 21257, 21263, 21266, 21268, 21269, 21270.
- T6408 *Thalictrum sessile* (Ranunculaceae); WU BING TANG SONG CAO; Javan Meadowrue. Isolated compounds: 21245.
- T6409 *Thalictrum simplex* [Syn. *Thalictrum simplex* var. *brevipes*] (Ranunculaceae); YING SHUI HUANG LIAN; Slim-top Meadowrue. Used part: root. TCM Effects: To clear heat and resolve toxin, disinhibit damp and abate jaundice. TCM Indications: Jaundice, dysentery, lung heat cough, red eyes with gall, gan of nose. Isolated compounds: 930, 2300, 2303, 4032, 4290, 9441, 11736, 11851, 16439, 16555, 17983, 21234, 21241, 21242, 21246, 21249, 21253, 21262.  
*Thalictrum simplex* var. *brevipes* = *Thalictrum simplex*
- T6410 *Thalictrum smithii* (Ranunculaceae); BIAN ZHU TANG SONG CAO; Smith Meadowrue. Used part: aerial parts. TCM Effects: To clear heat and dry damp, resolve toxin. TCM Indications: Abdominal pain and diarrhea, dizziness. Isolated compounds: 4467.
- T6411 *Thalictrum* sp. (Ranunculaceae). Isolated compounds: 21264.
- T6412 *Thalictrum squarrosum* (Ranunculaceae); ZHAN ZHI TANG SONG CAO; Spreading Meadowrue\*. Used part: root and rhizome (or whole herb). TCM Effects: To clear heat and resolve toxin, inhibit acid. TCM Indications: Acute conjunctivitis, infective hepatitis, dysentery, stomach disease and acid vomiting. Isolated compounds: 21251.

- T6413 *Thalictrum strictum* (Ranunculaceae); BI ZHI TANG SONG CAO; Strict Meadowrue\*. Isolated compounds: 21246.
- T6414 *Thalictrum thunbergii* (Ranunculaceae); YAN GUO CAO; East-Asia Low Meadowrue. Used part: root. TCM Effects: To clear heat and resolve toxin, dry damp. TCM Indications: Pertussis, toothache, swelling toxin of welling abscess and sore, acute dermatitis, eczema. Isolated compounds: 930, 1492, 1667, 2300, 2303, 4032, 4290, 9441, 9597, 11736, 11851, 13374, 14756, 16439, 16555, 17983, 20649, 21240, 21244, 21247, 21248, 21253.  
*Thalictrum tripeltatum* = *Thalictrum ichangense*
- T6415 *Thalictrum urbainii* (Ranunculaceae); TAI WAN TANG SONG CAO; Taiwan Meadowrue. Isolated compounds: 11344.
- T6416 *Thamnia vermicularis* (Thamniaceae); XUE CHA; Vermiculate Thamnia Thallus. Used part: lichen body. TCM Effects: To clear heat and allay thirst, arouse spirit. TCM Indications: Summerheat stroke, vexation and thirst, lung heat cough, *yin* vacuity tidal fever, epilepsy, insomnia, eye diseases. Isolated compounds: 1596, 20238, 21271, 21272, 22402.
- T6417 *Thamnia vermicularis* var. *subuliformis* (Thamniaceae); Lichen. Isolated compounds: 2101.
- T6418 *Thamnosma rhodesica* (Rutaceae). Isolated compounds: 2833, 3856, 8985, 10465, 11001, 11601, 13571, 18784, 19077.
- T6419 *Thapsia garganica* (Asteraceae); DU HU LUO BO; Deadly Carrot. Isolated compounds: 15811, 21279.
- T6420 *Thelephora aurantiotincta* (Thelephoraceae); JIN HUANG GE JUN; Goldenyellow Thelephore\*. Isolated compounds: 2000, 8132, 8133, 9818, 14150, 21293, 21294, 21295, 21296, 21297, 21298, 21299, 21300, 21307.
- T6421 *Thelephora terrestris* (Thelephoraceae); LU SHENG GE JUN; Terrestrial Thelephore\*. Isolated compounds: 20386, 21002, 21003, 21006, 21007, 21008, 21009, 21010, 21011, 21012.
- T6422 *Thelephora vialis* (Thelephoraceae); LIAN ZUO GE JUN; Vase Thelephore. Used part: sporocarp. TCM Effects: To dispel wind and dissipate cold, soothe sinews and quicken network vessels. TCM Indications: Wind-damp impediment pain, hypertonicity of sinews and vessels. Isolated compounds: 12598, 13790, 13791, 13792.
- T6423 *Theobroma cacao* (Sterculiaceae); KE KE; Cocoa. Used part: seed. TCM Effects: To warm *yang*, disinhibit urine, raise spirit. Isolated compounds: 1562, 1564, 3551, 6863, 8051, 17876, 17888, 19198, 21310.
- T6424 *Thermopsis alpina* (Fabaceae); GAO SHAN HUANG HUA; Alpine Thermopsis. Used part: flower and fruit. TCM Effects: To extinguish wind and settle fright. TCM Indications: Rabid dog bite. Isolated compounds: 4594, 21318.
- T6425 *Thermopsis alternifolia* (Fabaceae); HU SHENG YE YE JUE MING; Alternateleaf Thermopsis\*. Isolated compounds: 4594.
- T6426 *Thermopsis chinensis* (Fabaceae); XIAO YE YE JUE MING; Chinese Thermopsis. Used part: root or seed. TCM Effects: To clear heat and brighten eyes. TCM Indications: Red eyes with gall. Isolated compounds: 4594.
- T6427 *Thermopsis cinerea* (Fabaceae); HUI HUANG HUA; Cinereous Thermopsis\*. Isolated compounds: 15972.
- T6428 *Thermopsis lanceolata* (Fabaceae); MU MA DOU; Lanceleaf Thermopsis. Used part: whole herb. TCM Effects: To relieve cough and dispel phlegm, moisten intestines and free stool. TCM Indications: Cough of phlegm asthma, dry stool. Isolated compounds: 329, 1134, 1672, 4594, 7900, 13089, 18819, 20133, 21317, 21318.
- T6429 *Thermopsis lupinoides* (Fabaceae); YE JUE MING; Wild Thermopsis. Used part: whole herb and seed. TCM Effects: To resolve toxin and disperse swelling, dispel phlegm and promote vomiting. TCM Indications: Malign sore, scab and lichen. Isolated compounds: 4594, 16494, 21318.
- T6430 *Thermopsis* spp. (Fabaceae). Isolated compounds: 3004, 16209.
- T6431 *Thesium chinense* (Santalaceae); BAI RUI CAO; Chinese Bastardtoadflax. Used part: whole herb. TCM Effects: To clear heat, disinhibit damp, resolve toxin. TCM Indications: Wind-heat common cold, summerheat stroke, pulmonary welling abscess, nipple moth, scrofula, mammary welling abscess, swollen boil, strangury syndrome, jaundice, lumbago, emission. Isolated compounds: 12020, 20444.
- T6432 *Thespesia populnea* [Syn. *Hibiscus populneus*] (Malvaceae); YANG YE XIAO JIN; Portiatree. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disperse swelling and relieve pain, eliminate inflammation and disperse swelling (leaf), enrich and supplement (root). TCM Indications: Meningitis, dysentery, hemorrhoids, painful swollen testes, scab and lichen; bark: dysentery, hemorrhoids, skin diseases. Isolated compounds: 13513, 13514, 13515, 13516, 21320, 21321.
- T6433 *Thevetia nerifolia* [Syn. *Thevetia peruviana*] (Apocynaceae); HUANG HUA JIA ZHU TAO; Yellow Oleander. Used part: seed. TCM Effects: To strengthen heart, disinhibit urine and disperse edema. TCM Indications: Cardiac failure, paroxysmal supraventricular tachycardia, paroxysmal fibrillation. Isolated compounds: 2556, 3416, 3417, 12019, 12046, 12093, 13100, 13418, 15494, 16587, 16996, 16999, 17000, 17001, 17002, 17003, 18354, 18362, 18363, 18395, 19090, 20088, 20148, 21322, 21323, 21324, 21325, 21326, 21327, 22426.  
*Thevetia peruviana* = *Thevetia nerifolia*
- T6434 *Thichothecium roseum*. Isolated compounds: 21577.
- T6435 *Thladiantha cordifolia* (Cucurbitaceae); XIN YE CHI BO; Heartleaf Tubergourd. Used part: root and fruit. TCM Effects: To clear heat and resolve toxin, fortify stomach and relieve pain (root), disperse swelling (fruit). Isolated compounds: 5649, 21335, 22842.
- T6436 *Thlaspi arvense* (Brassicaceae); XI MING; Boor's Mustard. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, disinhibit water and disperse edema. TCM Indications: Red eyes with gall, pulmonary welling abscess, diarrhea, dysentery, leukorrhea, postpartum blood stasis abdominal pain, indigestion, nephritis with edema, cirrhosis with ascites, swelling toxin of welling abscess and sore. Isolated compounds: 19935.
- T6437 *Thlaspi arvense* (Brassicaceae); XI MING ZI; Boor's Mustard Seed. Used part: seed. TCM Effects: To brighten eyes, dispel wind-damp. TCM Indications: Sore red swollen eyes and tearing, wind-damp impediment pain. Isolated compounds: 14336, 19935.
- T6438 *Thuja occidentalis* (Cupressaceae); BEI MEI YA BAI; Eastern Arborvitae. Isolated compounds: 1372, 1373, 1394, 1395, 5543, 7751, 15412, 21350.
- T6439 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*]



- (Cupressaceae); CE BAI ZHI JIE; Chinese Arborvitae Branch. Used part: branchlet. TCM Effects: To dispel wind and eliminate damp, resolve toxin and cure sores. TCM Indications: Wind impediment, joint running wind, cholera cramp, gum swelling and pain. Isolated compounds: 2396, 2397, 3466, 4368, 4369, 4370, 4371, 4372, 4374, 4375, 4392, 4894, 5924, 11255, 11256, 11357, 13625, 21351, 22656, 22659, 22660, 22661.
- T6440 *Thuja orientalis* [Syn. *Platyclusus orientalis*; *Biota orientalis*] (Cupressaceae); CE BAI YE; Chinese Arborvitae Leaf. Used part: leaf. TCM Effects: To cool blood and stanch bleeding, relieve cough and dispel phlegm, dispel wind-damp, dissipate toxin swelling. TCM Indications: Hemoptysis, duodenal bleeding, chronic bronchitis, tuberculosis, blood ejection, spontaneous external bleeding, hematuria, hematochezia, blood dysentery, incessant flooding and spotting, cough with profuse phlegm, wind-damp impediment pain, erysipelas, epidemic parotitis, scalds, burns. Isolated compounds: 1030, 1764, 3241, 3242, 4376, 6333, 7751, 9543, 10656, 11358, 11594, 11596, 11598, 11600, 12062, 12455, 15170, 15184, 15664, 16366, 17422, 17423, 18317, 18411, 21350, 22492.
- T6441 *Thuja plicata* (Cupressaceae); BEI MEI XIANG BAI; Western Arborvitae. Isolated compounds: 17561, 21347, 21348.
- T6442 *Thuja standishii* (Cupressaceae); RI BEN XIANG BAI JING PI; Japanese Arborviate Stem-bark. Isolated compounds: 7764, 11358, 16367, 16368, 19236, 20465.
- T6443 *Thujopsis dolabrata* (Cupressaceae); LUO HAN BAI; Broadleaf Arborvitae Hiba. Isolated compounds: 1372, 17876.
- T6444 *Thunbergia grandiflora* (Acanthaceae); DA HUA SHAN QIAN NIU; Bengal Clockvine. Used part: stem-leaf. TCM Effects: To resolve toxin and disperse swelling, quicken blood and relieve pain. TCM Indications: Knocks and falls, fracture, sore and boil, snake bite. Isolated compounds: 1493.
- T6445 *Thunbergia laurifolia* (Acanthaceae); TAI GUO SHAN QIAN NIU; Thailand Clockvine (Raang-Chuet). Isolated compounds: 6927, 8733.
- T6446 *Thymra* spp. (Lamiaceae). Isolated compounds: 6162, 21709.
- T6447 *Thymus longiflorus* (Lamiaceae). Isolated compounds: 15440.
- T6448 *Thymus magnus* (Lamiaceae); CHAO XIAN DA BAI LI XIANG; Korean Big Thyme\*. Isolated compounds: 3048, 3231, 4550, 20990, 21360.
- T6449 *Thymus piperella* (Lamiaceae). Isolated compounds: 6162.
- T6450 *Thymus quinquecostatus* (Lamiaceae); WU MAI BAI LI XIANG; Fiveribbed Thyme. Isolated compounds: 3048, 3231, 4550, 20990, 21360.
- T6451 *Thymus satureioides* (Lamiaceae); TA HUA BAI LI XIANG. Isolated compounds: 21709.
- T6452 *Thymus serpyllum* (Lamiaceae); BAI LI XIANG; Breckland Thyme. Isolated compounds: 1476, 20995, 21360.
- T6453 *Thymus* spp. (Lamiaceae). Isolated compounds: 22768.
- T6454 *Thymus vulgaris* (Lamiaceae); SHE XIANG CAO; Thyme. Used part: herb. TCM Effects: To suppress cough and dispel wind. TCM Indications: Pertussis, acute bronchitis, pharyngolaryngitis. Isolated compounds: 2550, 2555, 2887, 3231, 3241, 3242, 3683, 3741, 7522, 9528, 10268, 10269, 10270, 12420, 12850, 13745, 13746, 13749, 13755, 14509, 14510, 14597, 14598, 20992, 20995, 21344, 21360, 21362, 21365, 21366, 22467.
- T6455 *Tibouchina semidecandra* (Melastomataceae); Glory Bush. Isolated compounds: 15641, 15642, 17754.
- T6456 *Tilia alburnum* (Tiliaceae); BAI DUAN; White Linden\*. Isolated compounds: 12018.
- T6457 *Tilia japonica* (Tiliaceae); HUA DONG DUAN; Japanese Linden. Used part: flower. TCM Effects: See *Tilia miqueliana*. TCM Indications: See *Tilia miqueliana*. Isolated compounds: 21391.
- T6458 *Tilia miqueliana* (Tiliaceae); PU TI SHU HUA; Miquel Linden. Equivalent plant: *Tilia japonica*. Used part: flower. TCM Effects: To settle tetany, calm, effuse sweat and abate fever. TCM Indications: Wind-cold common cold, headache and generalized pain, fright epilepsy. Isolated compounds: 7734.
- T6459 *Tilia* sp. (Tiliaceae). Isolated compounds: 5613.
- T6460 *Tilia* spp. (Tiliaceae). Isolated compounds: 17399, 21392.
- T6461 *Tilia vulgaris* (Tiliaceae); DUAN SHU; Common Lime. Isolated compounds: 20237.
- T6462 *Tinospora baenzigeri* (Menispermaceae). Isolated compounds: 2098, 2099, 2100.
- T6463 *Tinospora capillipes* (Menispermaceae); JIN GUO LAN; Hairystalk Tinospora. Used part: root. TCM Effects: See *Tinospora sagittata*. TCM Indications: See *Tinospora sagittata*. Isolated compounds: 3934, 3939, 16555.
- T6464 *Tinospora cordifolia* (Menispermaceae); XIN XING YE QING NIU DAN; Cardialeaf Tinospora\*. Isolated compounds: 1084, 1085, 1086, 1087.
- T6465 *Tinospora craveniana* (Menispermaceae); JIANG XI QING NIU DAN; Jiangxi Tinospora\*. Isolated compounds: 6680.
- T6466 *Tinospora hainanensis* (Menispermaceae); HAI NAN QING NIU DAN; Hainan Tinospora. Isolated compounds: 3747, 6219, 11851, 14748.
- T6467 *Tinospora sagittata* (Menispermaceae); QING NIU DAN; Arrowshaped Tinospora. Equivalent plant: *Tinospora capillipes*. Used part: root. TCM Effects: To clear heat and resolve toxin, disinhibit throat, relieve pain. TCM Indications: Swelling pain in throat, welling abscess and flat abscess with clove sore, diarrhea, dysentery, heat pain in stomach duct and abdomen. Isolated compounds: 3939, 11338, 20321, 21398.
- T6468 *Tinospora sinensis* (Menispermaceae); ZHONG HUA QING NIU DAN; Chinese Tinospora\*. Used part: stem. TCM Effects: To dispel wind and relieve pain, soothe sinews and quicken network vessels. TCM Indications: Wind-damp impediment pain, taxation damage in lumbar muscle, knocks and falls. Isolated compounds: 10949, 11480, 17419, 17922, 20669, 21399, 21400, 21401.
- T6469 *Tithonia diversifolia* (Asteraceae); ZHONG BIN JU; Yucatan Tithonia. Used part: leaf. TCM Effects: To clear heat and resolve toxin. TCM Indications: Acute gastroenteritis, toxin swelling of sores. Isolated compounds: 175, 216, 240, 1438, 1439, 1440, 5898, 6064, 7204, 10769, 15926, 20609, 20610, 20611, 21410.
- T6470 *Tithonia tagiliflora* (Asteraceae); MO XI GE XIANG RI KUI; Mexican Sunflower. Isolated compounds: 16205, 20612.
- Toddalia aculeata* = *Toddalia asiatica*
- T6471 *Toddalia asiatica* [Syn. *Toddalia aculeata*; *Paullinia asiatica*]

- (Rutaceae); FEI LONG ZHANG XUE; Asiatic Toddalia. Used part: root or root cortex. TCM Effects: To dispel wind and relieve pain, stanch bleeding and dissipate stasis. TCM Indications: Wind-damp Pain, stomachache, knocks and falls, blood ejection, spontaneous external bleeding, knife wound, amenorrhea, dysmenorrhea. Isolated compounds: 588, 3498, 3499, 3768, 5558, 6068, 6454, 7521, 11601, 14824, 16443, 17375, 18881, 20002, 21169, 21418, 21423, 21822, 21832.
- T6472 *Toddalia* spp. (Rutaceae). Isolated compounds: 3498.
- T6473 *Toddaliopsis bremekampii* (Rutaceae). Isolated compounds: 21419, 21420, 21421, 21422.
- T6474 *Toona ciliata* (Meliaceae); HONG CHUN; Burma Toon. Used part: root cortex. TCM Effects: To clear heat and dry damp, promote astriction, kill worms. TCM Indications: Chronic diarrhea, chronic dysentery, intestinal wind bleeding, flooding and spotting, vaginal discharge, emission, white turbidity, *gan* accumulation, ascariasis, sore and lichen. Isolated compounds: 290, 8316, 21446.
- T6475 *Toona sinensis* (Meliaceae); CHUN BAI PI; Chinese Toon Root-bast. Used part: bark or root cortex. TCM Effects: To eliminate heat and dry damp, astringe intestines and stanch bleeding, kill worms. TCM Indications: Chronic dysentery, chronic diarrhea, intestinal wind bleeding, flooding and spotting, vaginal discharge, emission, white turbidity, *gan* accumulation, ascariasis, sore and lichen. Isolated compounds: 21448.
- T6476 *Torilis japonica* (Apiaceae); HUA NAN HE SHI; Japanese Hedgeparsley. Used part: fruit or whole herb. TCM Effects: To kill worms, check diarrhea, contract damp and relieve itch. TCM Indications: Abdominal pain due to worm accumulation, diarrhea and dysentery, ulcerating sores, pudendal itch and vaginal discharge, wind-damp papules. Isolated compounds: 21456, 21457.
- T6477 *Torreya grandis* (Taxaceae); FEI SHU; Torreya\*. Used part: branch-leaf. TCM Effects: To dispel wind and eliminate damp. TCM Indications: Wind-damp sore toxin. Isolated compounds: 5948, 21462, 21463, 21464.
- T6478 *Torreya jackii* (Taxaceae); CHANG YE FEI SHU; Jack Torreya. Used part: branch-leaf. TCM Effects: To lower blood pressure, anticancer. TCM Indications: Hypertension. Isolated compounds: 16649.
- T6479 *Torreya yunnanensis* (Taxaceae); YUN NAN FEI SHU; Yunnan Torreya. Isolated compounds: 1030, 2125, 7996, 9970, 13783, 17418, 17419, 19514, 20107, 21465.
- T6480 *Tournefortia sarmentosa* (Boraginaceae); ZI DAN TENG; Taiwan Tournefortia\*. Isolated compounds: 11694, 12420, 12925, 19201, 19206, 21477, 21478, 21479, 21480.  
*Toxicadendron verniciflum* = *Rhus verniciflua*
- T6481 *Toxicodendron radicans* (Anacardiaceae); DU QI TENG; Poison Ivy. Isolated compounds: 22274.
- T6482 *Toxicodendron succedaneum* [Syn. *Rhus succedanea*] (Anacardiaceae); LIN BEI ZI; Field Lacquertree. Used part: leaf. TCM Effects: To stanch bleeding and dissipate stasis, resolve toxin. TCM Indications: Hemoptysis, blood ejection, bleeding due to external injury, poisonous snake bite. Isolated compounds: 1030, 1497, 5613, 5614, 6535, 6719, 7802, 9376, 9383, 9386, 9543, 12428.
- T6483 *Trachelospermum asiaticum* (Apocynaceae); RI BEN LUO SHI; Japanese Star Jasmine\*. Isolated compounds: 15806, 20433, 21493.
- T6484 *Trachelospermum jasminoides* (Apocynaceae); LUO SHI TENG; Chinese Star Jasmine. Used part: leafy stem. TCM Effects: To dispel wind and free network vessels, cool blood and disperse swelling. TCM Indications: Wind-damp impediment pain, hypertonicity of sinews and vessels, aching in lumbus and knees, throat impediment, swollen welling abscess, knocks and falls. Isolated compounds: 1490, 1497, 1623, 4615, 10937, 13144, 13145, 15807, 15808, 15809, 21491, 21492, 21493, 22597, 22602.
- T6485 *Trachycarpus fortunei* (Arecaceae); ZONG LV PI; Fortune Windmillpalm. Used part: petiole and fibre of sheath. TCM Effects: To promote contraction and stanch bleeding. TCM Indications: Blood ejection, spontaneous external bleeding, hematuria, hematochezia, flooding, bleeding due to external injury. Isolated compounds: 3308, 5763, 8095, 9818, 14699, 17968.
- T6486 *Trachycarpus wagnerianus* (Arecaceae); WA SHI ZONG LV; Wagner Windmill Palm. Isolated compounds: 18056.
- T6487 *Trachyrhamphus serratus* CU WEN HAI LONG. Isolated compounds: 5674.
- T6488 *Trachyspermum ammi* (Apiaceae); A YU WEI; Ajowan. Used part: fruit. TCM Effects: To dissipate cold and relieve pain, resolve toxin and disinhibit damp. TCM Indications: Cold pain in stomach duct and abdomen, indigestion, vomiting nausea, diarrhea, cold mounting, dysmenorrhea, urethral stone, swelling pain of sore and boil. Isolated compounds: 21360.
- T6489 *Tragopogon porrifolius* (Asteraceae); SUAN YE PO LUO MEN SHEN; Salsify. Used part: root and leaf. TCM Effects: To fortify spleen and boost *qi*. TCM Indications: Weakness during convalescence, child *gan* accumulation, tinea capitis. Isolated compounds: 3175, 6108, 14723, 19562, 21357, 21500.
- T6490 *Tragopogon* sp. (Asteraceae). Isolated compounds: 2455, 20505.
- T6491 *Trametes cinnabarina* [Syn. *Polyporus cinnabarinus*; *Boletus cinnabarinus*] (Polyporaceae); HONG SHUAN JUN; Cinnabar-red. Equivalent plant: *Pycnoporus sanguineus*. Used part: sporocarp. TCM Effects: To resolve toxin and eliminate damp, stanch bleeding. TCM Indications: Dysentery, swelling pain in throat, knocks and falls, welling abscess and boil, itchy papules, bleeding due to external injury. Isolated compounds: 21501.
- T6492 *Trapa bispinosa* (Trapaceae); LING; Singharanut. Used part: pulp. TCM Effects: To clear summerheat heat, eliminate vexation and allay thirst, boost *qi* and fortify spleen, resolve toxin. TCM Indications: Spleen vacuity diarrhea, summerheat-heat vexation and thirst, diabetes mellitus, dysentery, drunkenness. Isolated compounds: 61, 5720, 7247, 19057.
- T6493 *Trattinickia rhoifolia*. Isolated compounds: 7494.
- T6494 *Trema dielsiana* (Ulmaceae); SHAN YOU MA; Diels Trema. Used part: leaf. TCM Effects: To relieve pain, stanch bleeding. TCM Indications: Boil. Isolated compounds: 9235.
- T6495 *Trewin nudiflora* (Euphorbiaceae); HUA TAO SHU. Isolated compounds: 5728.
- T6496 *Tribulus pentandrus* (Zygophyllaceae); WU XIONG RUI JI LI; Penta-androus Caltrap\*. Isolated compounds: 16877, 16878, 16879, 16880, 16881, 16882, 16883.

- T6497 *Tribulus terrestris* (Zygophyllaceae); CI JI LI; Puncturevine Caltrap. Used part: fruit. TCM Effects: To dissipate wind and brighten eyes, precipitate *qi* and move blood. TCM Indications: Headache, itchy body, red eyes and eye screen, convulsion, fullness in chest, cough and counterflow, concretion and conglomeration, difficult lactation, welling abscess and flat abscess, scrofula. Isolated compounds: 5250, 6437, 7788, 8458, 8459, 8633, 8634, 8968, 9234, 9235, 15525, 17975, 19070, 20218, 21000, 21001, 21004, 21005, 21013, 21014, 21015, 21016, 21017, 21546, 21547, 21548.
- T6498 *Tribulus terrestris* (Zygophyllaceae); JI LI GEN; Puncturevine Caltrap Root. Used part: root. TCM Effects: To secure teeth. TCM Indications: Toothache. Isolated compounds: 3552, 8457, 9236, 19070.
- T6499 *Tribulus terrestris* (Zygophyllaceae); JI LI MIAO; Puncturevine Caltrap Shoot\*. Used part: stem-leaf. TCM Effects: To dispel wind, eliminate damp, relieve itch, disperse welling abscess. TCM Indications: Summerheat-damp damage center, vomiting and diarrhea, nasal congestion and runny nose, wind papule itching of skin, scab and lichen, swollen welling abscess. Isolated compounds: 19087.
- T6500 *Trichilia prieuriana* (Meliaceae). Isolated compounds: 14924, 17852.
- T6501 *Trichocline reptans*. Isolated compounds: 418.
- T6502 *Trichocolea mollissima* (Trichocoleaceae); JI RUAN RONG TAI. Isolated compounds: 5922, 10255.
- T6503 *Trichoderma virida* LV SE MU MEI. Isolated compounds: 21559.
- T6504 *Tricholoma matsutake* [Syn. *Armillaria matsutake*] (Tricholomataceae); SONG XUN; Pine Mushroom. Used part: sporocarp. TCM Effects: To soothe channels and quicken network vessels, rectify *qi* and transform phlegm, disinhibit damp and transform turbidity. TCM Indications: Pain in lumbus and legs, incessant urinary turbidity, numbness in limbs, hypertonicity of sinews and vessels, abundant phlegm and shortness of breath. Isolated compounds: 6900, 7250, 11532, 13608, 14245, 15983, 21106, 22558.
- T6505 *Tricholoma muscarium* (Tricholomataceae). Isolated compounds: 21562.
- T6506 *Tricholoma saponaceum* (Tricholomataceae); ZAO WEI KOU MO. Isolated compounds: 19321, 19322, 19323, 19324, 19325, 19326, 19327, 19328, 19329, 19330.  
*Trichomanes strigosa* = *Microlepis strigosa*
- T6507 *Trichosanthes cucumeroides* (Cucurbitaceae); WANG GUA; Japanese Snakegourd. Used part: fruit. TCM Effects: To eliminate heat, engender liquid, dispel stasis, promote lactation. TCM Indications: Diabetes mellitus, jaundice, dysphagia-occlusion and stomach reflux, amenorrhea, scant breast milk, swollen welling abscess, chronic pharyngolaryngitis. Isolated compounds: 12018, 20168.
- T6508 *Trichosanthes cucumeroides* (Cucurbitaceae); WANG GUA ZI; Japanese Snakegourd Seed. Used part: seed. TCM Effects: To clear heat and disinhibit damp, cool blood and stanch bleeding. TCM Indications: Lung wilting, jaundice, dysentery, intestinal wind bleeding. Isolated compounds: 5352, 9069, 17425, 21576.
- T6509 *Trichosanthes hupehensis* (Cucurbitaceae); HU BEI GUA LOU; Hupeh Snakegourd. Isolated compounds: 2687.
- T6510 *Trichosanthes kirilowii* (Cucurbitaceae); GUA LOU; Mongolian Snakegourd. Equivalent plant: *Trichosanthes rosthornii*. Used part: fruit. TCM Effects: To clear heat and resolve phlegm, loosen chest and dissipate binds, moisten dryness and lubricate intestines. TCM Indications: Angina pectoris, lung heat cough, chest impediment, diabetes mellitus, acute mastitis, constipation, swelling toxin of welling abscess and sore. Isolated compounds: 1048, 2687, 3039, 3040, 3138, 4317, 9486, 12165, 12166, 12569, 12800, 12891, 12893, 15203, 15684, 16315, 16362, 16561, 16831, 19231, 19232, 19980, 20168, 20280, 20344, 20345, 20357, 20360, 20369, 21576, 22332.
- T6511 *Trichosanthes kirilowii* (Cucurbitaceae); GUA LOU ZI; Mongolian Snakegourd Seed. Used part: seed. TCM Effects: To clear lung and transform phlegm, lubricate intestines and free stool. TCM Indications: Phlegm-heat cough, lung vacuity dry cough, intestinal dry and constipation, swelling toxin of welling abscess and sore. Isolated compounds: 21576.
- T6512 *Trichosanthes kirilowii* (Cucurbitaceae); TIAN HUA FEN; Mongolian Snakegourd Root. Used part: root. TCM Effects: To clear heat and engender liquid, disperse swelling and expel pus. TCM Indications: Febrile diseases thirst, lung heat dry cough, diabetes mellitus due to internal heat, toxin swelling of sores, induce abortion. Isolated compounds: 1048, 2687, 3774, 9486, 10521, 12891, 12893, 20169, 20367.
- T6513 *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*] (Cucurbitaceae); SHUANG BIAN GUA LOU; Rosthorn Snakegourd. Used part: fruit. TCM Effects: See *Trichosanthes kirilowii*. TCM Indications: See *Trichosanthes kirilowii*. Isolated compounds: 3138, 3434, 9363, 9366, 9368, 12569, 12891, 12893, 13687, 14043, 14931, 14944, 15203, 15660, 15684, 16561, 16831, 20280, 20367, 20368, 21575, 21589.
- T6514 *Trichosanthes tricuspidata* (Cucurbitaceae); SAN YING JIAN GUA LOU; Tri-hard-tip Snakegourd\*. Isolated compounds: 4325, 4326, 4539, 4540, 4541, 12208, 12209, 12210, 12211, 12212, 12213, 12214, 12215, 12216, 12217, 12218, 12219.  
*Trichosanthes uniflora* = *Trichosanthes rosthornii*
- T6515 *Trichurus terrophilus* (imperfect fungi); MAO SHU MEI. Isolated compounds: 18549, 18550, 21579, 21580, 21581, 21582, 21583, 21584, 21585, 21586, 21587, 21588.  
*Tricomanes japonicum* = *Onychium japonicum*
- T6516 *Trifolium alexandrinum* (Fabaceae); AI JI CHE ZHOU CAO; Egyptian Clover\*. Isolated compounds: 21631, 21632, 21633.
- T6517 *Trifolium dubium* (Fabaceae); DUN YE CHE ZHOU CAO; Suckling Clover. Isolated compounds: 18643.
- T6518 *Trifolium fragiferum* (Fabaceae); CAO MEI CHE ZHOU CAO; Strawberry Clover. Isolated compounds: 4190.
- T6519 *Trifolium fruticosum* (Fabaceae); GUAN MU ZHUANG CHE ZHOU CAO; Shrubby Clover\*. Isolated compounds: 9598.
- T6520 *Trifolium hybridum* (Fabaceae); ZA JIAO CHE ZHOU CAO; Hybrid Clover\*. Isolated compounds: 6290.
- T6521 *Trifolium pratense* (Fabaceae); HONG CHE ZHOU CAO; Red Clover. Used part: flower and inflorescence. TCM Effects: To clear heat and relieve cough, dissipate binds and disperse swelling. TCM Indications: Common cold, cough and asthma, hard swelling, burns. Isolated compounds: 2384, 4135, 4604, 5440, 6201, 7852, 7853, 7853, 7883, 8011, 8278, 11158, 11648, 13282, 13638, 15484, 16756, 17765, 21634.
- T6522 *Trifolium repens* (Fabaceae); SAN XIAO CAO; White Clover. Used

- part: whole herb. TCM Effects: To clear heat, cool blood, quiet heart. TCM Indications: Epilepsy, bleeding from hemorrhoids, hard swelling. Isolated compounds: 4137, 4138, 4190, 4604, 8101, 9568, 12023, 12047, 13003, 15171, 15176, 18321, 18356, 20017, 21541, 21634.
- T6523 *Trifolium resupinatum* (Fabaceae). Isolated compounds: 18703.
- T6524 *Trifolium* spp. (Fabaceae). Isolated compounds: 3004.
- T6525 *Trifolium subterraneum* (Fabaceae); DI XIA CHE ZHOU CAO; Subterranean Clover. Isolated compounds: 2384, 2845, 7883, 8309, 9598.
- T6526 *Triglochin maritimum* (Juncaginaceae); HAI JIU CAI; Shore Podgrass. Used part: whole herb. TCM Effects: To clear heat and engender liquid, resolve toxin and disinhibit damp. TCM Indications: Exuberant heat fluid damage, stomach heat vexation thirst, dribbling pain of urination. Isolated compounds: 7419, 9717, 17425, 20805, 21644.
- T6527 *Trigonella caerulea* (Fabaceae); LAN HU LU BA; Blue Trigonella. Used part: seed. TCM Effects: To supplement kidney and disinhibit water, rectify *qi* and relieve pain. TCM Indications: Kidney vacuity lumbago, edema, spasmodic abdominal pain of gastrointestinal tract, mounting *qi* (hernia), painful swollen testes. Isolated compounds: 18281.
- T6528 *Trigonella foenum-graecum* (Fabaceae); HU LU BA; Common Fenugreek. Used part: seed. TCM Effects: To lower cholesterol, warm kidney, dispel cold, relieve pain. TCM Indications: Hyperlipemia, kidney vacuity cold, cold pain in lesser-abdomen, mounting *qi*, beriberi. Isolated compounds: 1673, 3218, 6440, 6444, 6449, 8095, 8297, 8457, 8969, 8970, 9569, 9616, 12063, 12064, 12832, 15279, 16196, 18370, 19473, 19542, 20207, 20208, 21383, 21589, 21590, 21645, 21646, 21647, 21648, 21649, 21650, 21651, 21652, 21653, 21654, 21655, 21656, 21657, 21658, 21659, 21660, 21661, 21662, 21663, 21664, 21665, 21666, 21667, 21668, 21669, 21670, 21671, 21672, 21673, 21674, 21675, 21676, 21677, 21678, 22464, 22554, 22581, 22582, 22878, 22936.
- T6529 *Trigonella* sp. (Fabaceae). Isolated compounds: 6437, 6440, 13638.
- T6530 *Trigonostemon reidioides* (Euphorbiaceae). Isolated compounds: 18563, 18564, 18565, 18566, 18567.
- T6531 *Trillium camtschaticum* (Liliaceae); YU ER QI; Whiteflower Trillium. Equivalent plant: YAN LING CAO. Used part: rhizome. TCM Effects: To dispel wind and soothe liver, quicken blood and stanch bleeding. TCM Indications: Hypertension, dizziness and headache, pain in lumbus and legs, bleeding due to external injury, knocks and falls, fracture. Isolated compounds: 2324, 4280, 4455, 5040, 16809, 21876.
- T6532 *Trillium erectum* (Liliaceae); HE HUA YAN LING CAO; Brownflower Trillium. Isolated compounds: 16809, 21871.
- T6533 *Trillium kamschaticum* (Liliaceae); JI LIN YAN LING CAO; Whiteflower Trillium\*. Used part: rhizome. TCM Effects: See *Trillium tschonoskii*. TCM Indications: See *Trillium tschonoskii*. Isolated compounds: 5217, 5218, 21872, 21873, 21874, 21875.
- T6534 *Trillium* sp. (Liliaceae). Isolated compounds: 6440.
- T6535 *Trillium tschonoskii* (Liliaceae); YAN LING CAO; Tschonosk Trillium. Equivalent plant: *Trillium kamschaticum*. Used part: rhizome. TCM Effects: To calm, relieve pain, quicken blood, stanch bleeding. TCM Indications: Hypertension, neurasthenia, dizziness and headache, pain in lumbus and legs, menstrual disorder [=menoxenia], flooding and spotting [=metrorrhagia and metrostaxis], bleeding due to external injury, knocks and falls. Isolated compounds: 3546, 4455, 6443, 6679, 21871.
- T6536 *Triphyophyllum peltatum* (Dioncophyllaceae); SAN YE MU; Trileaf Wood\*. Isolated compounds: 6433, 6896, 14325, 14396.
- T6537 *Tripterospermum japonicum* (Gentianaceae); RI BEN SHUANG HU DIE; Japanese Dualbutterfly\*. Used part: whole herb. TCM Effects: See *Tripterospermum taiwanense*. TCM Indications: See *Tripterospermum taiwanense*. Isolated compounds: 493, 494, 8685, 9616, 11773, 12949, 14982, 18729, 20503, 21989, 22836.
- T6538 *Tripterospermum taiwanense* (Gentianaceae); TAI WAN SHUANG HU DIE; Taiwan Dualbutterfly. Equivalent plant: *Tripterospermum japonicum*. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, suppress cough. TCM Indications: Jaundice, wind-heat cough. Isolated compounds: 21991.
- T6539 *Tripterygium doianum* (Celastraceae); NAN RI BEN LEI GONG TENG; South-Japan Threewingnut\*. Isolated compounds: 130, 301, 334, 3562, 21408.
- T6540 *Tripterygium hypoglaucum* (Celastraceae); KUN MING SHAN HAI TANG; Glaucousback Threewingnut. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and stanch bleeding, soothe sinews and joint bones, resolve toxin and kill worms. TCM Indications: Rheumatic arthritis, wind-damp impediment pain, hemiplegia, mounting *qi*, dysmenorrhea, profuse menstruation, postpartum abdominal pain, incessant bleeding, acute infectious hepatitis, chronic nephritis, erythematous lupus, fracture, medullitis, bone tuberculosis, epididymis tubercle, sore toxin, psoriasis, neurodermatitis. Isolated compounds: 27, 266, 3308, 6921, 8100, 10892, 10897, 10899, 10906, 10907, 10908, 16403, 17886, 17892, 18578, 21987, 21993, 22011, 22013, 22014, 22017, 22023, 22680, 22695.
- T6541 *Tripterygium regelii* (Celastraceae); HEI MAN; Regel Threewingnut. Used part: whole herb or root. TCM Effects: To dispel wind and eliminate damp, disinhibit water and disperse edema, resolve toxin and kill worms. TCM Indications: Rheumatoid arthritis, jaundice, glomus accumulation, knocks and falls, scrofula, toxin swelling of sores, tinea capitis, itchy skin, poisonous snake bite. Isolated compounds: 27, 3368, 10899, 16245, 18576, 18577, 18578, 18579, 18580, 18581, 18582, 18583.
- T6542 *Tripterygium wilfordii* (Celastraceae); LEI GONG TENG; Common Threewingnut. Used part: root, leaf and flower. TCM Effects: To dispel wind and eliminate damp, quicken blood and free network vessels, disperse swelling and relieve pain, resolve toxin and kill worms (high toxicity). TCM Indications: Rheumatoid arthritis, rheumatic arthritis, glomerulonephritis, nephropathy syndrome, erythematous lupus, dryness in eyes and mouth, Behcet's syndrome, psoriasis, eczema, leprosy, scab sore, intractable lichen. Isolated compounds: 27, 30, 1465, 3075, 3356, 3357, 3358, 3360, 3368, 4873, 5144, 5914, 6468, 6632, 6940, 7029, 7045, 7534, 8023, 8024, 9367, 10086, 10566, 10776, 10814, 10815, 10816, 10817, 10899, 10900, 11561, 11781, 13640, 15468, 15476, 15538, 15635, 16245, 16675, 18580, 19182, 20556, 21023, 21395, 21512, 21521, 21986, 21987, 21988, 21990, 21992, 21993, 21994, 21995, 21996, 21997, 21998,

- 21999, 22000, 22001, 22002, 22003, 22004, 22005, 22006, 22007, 22008, 22009, 22010, 22011, 22012, 22013, 22015, 22016, 22017, 22018, 22019, 22020, 22021, 22022, 22023, 22024, 22025, 22026, 22027, 22263, 22674, 22675, 22676, 22677, 22678, 22679, 22680, 22681, 22682, 22683, 22684, 22685, 22686, 22687, 22688, 22689, 22690, 22695.
- T6543 *Tristaniopsis calobuxus* (Myrtaceae). Isolated compounds: 6757, 21926.
- T6544 *Triticum aestivum* [Syn. *Triticum vulgare*] (Poaceae); XIAO MAI; Wheat. Used part: seed. TCM Effects: To nourish heart, boost kidney, eliminate heat, allay thirst. TCM Indications: Visceral agitation, heat vexation, diabetes mellitus, diarrhea, swollen welling abscess, bleeding due to external injury, scalds. Isolated compounds: 917, 2455, 6204, 19983, 21415.
- T6545 *Triticum monococcum* (Poaceae); DAN LI XIAO MAI; Einkorn. Isolated compounds: 13003.
- T6546 *Triticum* sp. (Poaceae). Isolated compounds: 13003.  
*Triticum vulgare* = *Triticum aestivum*
- T6547 *Tritomaria polita*; Liverwort *Tritomaria polita*. Isolated compounds: 7095, 7150, 7491, 7496, 7497, 9499, 10110, 10112, 10113, 19613.
- T6548 *Tritonia crocosmaeflora* (Iridaceae); XIONG HUANG LAN; Common Tritonia. Used part: corm. TCM Effects: To resolve toxin, disperse swelling, relieve pain. TCM Indications: Tympanites, pain in stomach duct, pain in sinews and bones, epidemic parotitis, sores, painful wound from knocks and falls, bleeding due to external injury. Isolated compounds: 21597.
- T6549 *Trochodendron aralioides* (Trochodendraceae); KUN LAN SHU; Wheelstamentree. Isolated compounds: 5283.
- T6550 *Trocholejeunea sandvicensis* (Lejeuneaceae); YE TAI. Isolated compounds: 1990, 4960, 5487, 8022, 10024, 12609, 12610, 14375, 17721, 19250, 21629.
- T6551 *Trogopterus xanthipes*; *Pteromys volans* (Petauristidae); WU LING ZHI; Trogopterus Dung. Used part: dried feces. TCM Effects: To quicken blood and relieve pain, transform stasis and stanch bleeding, disperse accumulation and resolve toxin. TCM Indications: Amenorrhea, postpartum blood stasis abdominal pain, flooding, profuse menstruation, incessant red and white vaginal discharge, snake bite, scorpion sting, centipede bite. Isolated compounds: 2413, 6178, 11810, 17696, 21752, 22246, 22739.  
*Trollius asiaticus* var. *chinensis* = *Trollius chinensis*
- T6552 *Trollius chinensis* [Syn. *Trollius asiaticus* var. *chinensis*] (Ranunculaceae); JIN LIAN HUA; Chinese Globeflower. Equivalent plant: *Trollius ledebourii*. Used part: flower. TCM Effects: To clear heat and resolve toxin, disperse swelling, brighten eyes. TCM Indications: Common cold with fever, swelling pain in throat, mouth sore, gum swelling and pain, gum hemorrhage, red eyes with gall, swelling toxin of clove sore, acute periostitis, acute lymphangitis. Isolated compounds: 6201, 16196, 22581.
- T6553 *Trollius ledebourii* (Ranunculaceae); DUAN BAN JIN LIAN HUA; Ledebour Globeflower. Used part: flower. TCM Effects: See *Trollius chinensis*. TCM Indications: See *Trollius chinensis*. Isolated compounds: 6207, 6208, 7783, 8066, 8072, 11724, 14193, 14194, 14196, 14203, 22345.
- T6554 *Trollius macropetalus* (Ranunculaceae); CHANG BAN JIN LIAN HUA; Langpetal Globeflower. Used part: flower. TCM Effects: To clear heat and resolve toxin. TCM Indications: Infection of upper respiratory tract, acute or chronic tonsillitis, acute conjunctivitis, acute otitis media, acute lymphangitis, acute dysentery, acute appendicitis. Isolated compounds: 6201, 16196, 17902, 22581.
- T6555 *Tropaeolum majus* (Tropaeolaceae); HAN LIAN HUA; Common Nasturtium. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Sore toxin, red eyes with gall, malign sore. Isolated compounds: 1358, 2294, 2298, 3211, 7291, 8760, 17102.
- T6556 *Tsoongiodendron odorum* (Magnoliaceae); GUAN GUANG MU; Guanguangtree. Isolated compounds: 6027, 12917.
- T6557 *Tsuga dumosa* (Pinaceae); YUN NAN TIE SHAN; Yunnan Hemlock. Isolated compounds: 5871, 6635.
- T6558 *Tsuga heterophylla* (Pinaceae); YI YE TIE SHAN; Western Hemlock. Isolated compounds: 7768, 10574, 12520, 13594, 17409, 19618.
- T6559 *Tuber indicum* YIN DU KUAI JUN; Indian Truffle. Isolated compounds: 22053, 22054, 22055, 22056.
- T6560 *Tulipa edulis* (Liliaceae); GUANG CI GU; Edible Tulip. Used part: bulb. TCM Effects: To clear heat and resolve toxin, dissipate binds and disperse swelling. TCM Indications: Swelling pain in throat, scrofula, welling abscess and flat abscess, swelling of sores, postpartum stasis stagnation. Isolated compounds: 3911.
- T6561 *Tulipa gesneriana* (Liliaceae); YU JIN XIANG; Common Tulip. Used part: flower. TCM Effects: To transform damp and repel foulness. TCM Indications: Spleen-stomach damp turbidity, fullness and oppression in chest and stomach duct, retching counterflow and abdominal pain, bad breath and slimy tongue fur. Isolated compounds: 4451, 8371, 15664, 19187, 22102, 22104, 22105.
- T6562 *Tulipa gesneriana* (Liliaceae); YU JIN XIANG GEN; Common Tulip Root. Used part: root. TCM Effects: To calm. TCM Indications: Visceral agitation. Isolated compounds: 8371, 8373, 8374, 8375, 8376.
- T6563 *Tulipa hybrida* (Liliaceae); YU JIN XIANG ZA JIAO ZHONG; Tulip Hybrid\*. Isolated compounds: 22104, 22105.
- T6564 *Tulipa* sp. (Liliaceae). Isolated compounds: 7821.
- T6565 *Tulipa turkestanii* (Liliaceae); TU ER QI YU JIN XIANG; Turkey Tulip\*. Isolated compounds: 22106, 22107.
- T6566 *Tupistra chinensis* (Liliaceae); KAI KOU JIAN; Chinese Tupistra. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp, dissipate stasis and relieve pain. TCM Indications: Diphtheria, swelling pain in throat, wind-damp impediment pain, knocks and falls, stomachache, swollen welling abscess and sore toxin, poisonous snake bites, rabid dog bite. Isolated compounds: 955, 6974, 7009, 9815, 10381, 14254, 14652, 16891, 19983, 19987, 20369, 20556, 20566, 22111, 22112, 22113, 22114, 22115, 22116, 22117, 22332, 22336.
- T6567 *Tupistra wattii* [Syn. *Campylandra wattii*] (Liliaceae); WAN RUI KAI KOU JIAN; Watt Tupistra. Used part: rhizome. TCM Effects: To clear heat and resolve toxin, dissipate stasis and stanch bleeding, disperse swelling and relieve pain. TCM Indications: Wind-heat common cold, cough and sore pharynx, tonsillitis, lymphoditis, fracture due to knocks and falls, stomachache blood ejection, bleeding due to external injury. Isolated compounds: 21845, 22649, 22650, 22651, 22652,

- 22653, 22654, 22655.
- T6568 *Turpinia ternata* (Staphyleaceae); SAN CHU SHAN XIANG YUAN; Threelobed Turpinia. Isolated compounds: 22125, 22126, 22127, 22128, 22129.
- T6569 *Turraea floribunda* (Meliaceae); DUO HUA U LIAN; Manyflower Starbush\*. Isolated compounds: 22130, 22131, 22132, 22133, 22134, 22135, 22136, 22137.
- T6570 *Turraea nilotica* (Meliaceae); NI LUO HE JIN YIN LIAN; Nile Starbush\*. Isolated compounds: 15598, 17480.
- T6571 *Turraea parvifolia* (Meliaceae); XIAO YE DU LIAN; Littleleaf Starbush\*. Isolated compounds: 128, 6935, 6936, 22138, 22139, 22140, 22141.
- T6572 *Turraea wakefieldii* (Meliaceae). Isolated compounds: 5291, 5298, 5299, 5311, 5316, 20895.
- T6573 *Turreanthus africanus* (Meliaceae). Isolated compounds: 185, 6890, 7160.
- T6574 *Tussilago farfara* (Asteraceae); KUAN DONG HUA; Common Coltsfoot. Used part: flower bud. TCM Effects: To moisten lung and precipitate *qi*, relieve cough and transform phlegm. TCM Indications: Cough, cough and asthma with abundant phlegm, consumption cough and hemoptysis, chronic bronchitis, infection of upper respiratory tract, tuberculosis. Isolated compounds: 122, 2169, 3214, 4287, 4841, 7058, 7715, 7716, 8095, 10265, 10887, 13127, 14187, 14188, 15470, 19087, 19731, 20136, 22143, 22144, 22222.
- T6575 *Tylimanthus renifolius* (Acrobolbaceae); Liverwort *Tylimanthus renifolius*. Isolated compounds: 209, 9425, 9427, 17255, 18914.
- T6576 *Tylimanthus tenellus* (Acrobolbaceae); New Zealand liverwort *Tylimanthus tenellus*. Isolated compounds: 9663, 9666, 10579.
- T6577 *Tylophora asthmatica* [Syn. *Tylophora indica*] (Asclepiadaceae); YIN DU WA ER TENG; Indian Tylophora\*. Isolated compounds: 22151, 22152, 22153.
- T6578 *Tylophora atrofolliculata* (Asclepiadaceae); SAN FEN DAN; Brackfollicle. Used part: root. TCM Effects: To dispel wind, quicken blood, relieve pain. TCM Indications: Wind-damp pain, painful swelling from knocks and falls. Isolated compounds: 22147, 22148, 22149, 22150, 22152, 22153.
- T6579 *Tylophora crebriflora* (Asclepiadaceae); MI HUA WA ER TENG; Denseflower Tylophora\*. Isolated compounds: 22146, 22151, 22153.
- T6580 *Tylophora floribunda* (Asclepiadaceae); WA ER TENG; Manyflower Tylophora. Used part: root. TCM Effects: To dispel wind and transform phlegm, quicken blood and relieve pain, resolve toxin and disperse swelling. TCM Indications: Infant fright wind, wind-damp impediment pain, cough and asthma with abundant phlegm, diphtheria, knocks and falls, fracture, poisonous snake bite, swollen welling abscess, sore and boil, red eyes, stomatitis, liver spleen enlargement. Isolated compounds: 22146, 22151, 22153.
- Tylophora indica* = *Tylophora asthmatica*
- T6581 *Tylophora mollissima* (Asclepiadaceae); MIAN MAO WA ER TENG; Woolly Tylophora. Used part: whole plant. TCM Effects: To clear lung heat, relieve cough and asthma. TCM Indications: Common cold with fever, lung heat cough, asthma. Isolated compounds: 22152, 22153.
- T6582 *Tylophora ovata* (Asclepiadaceae); LUAN YE WA ER TENG; Ovateleaf Tylophora. Equivalent plant: *Gerbera piloselloides*, *Cynanchum versicolor*, *Cynanchum atratum*, *Cynanchum ascyrifolium*. Used part: root. TCM Effects: To clear heat and boost *yin*, disinhibit urine and free strangury, resolve toxin and cure sores. TCM Indications: Warm heat disease with fever, generalized fever with macule, steaming bone tidal fever, lung heat cough, postpartum vacuity vexation, heat strangury, blood strangury, swelling pain in throat, swelling toxin of sore and welling abscess, poisonous snake bite. Isolated compounds: 22152, 22153.
- T6583 *Tylorella* sp. Isolated compounds: 21359.
- T6584 *Typha angustata* (Typhaceae); PU HUANG; Longbract Cattail Pollen. Equivalent plant: *Typha angustifolia*, *Typha latifolia*. Used part: pollen. TCM Effects: To lower cholesterol, cool blood and stanch bleeding, quicken blood and dispel stasis. TCM Indications: Hyperlipemia, angina pectoris, exudative eczema, bleeding, hemoptysis, spontaneous external bleeding, blood ejection, hematochezia, hematuria, flooding and spotting, bleeding due to external injury, pain in heart and abdomen, dysmenorrhea, postpartum bleeding, postpartum abdominal pain, blood strangury with inhibited pain. Isolated compounds: 1599, 5763, 9364, 9486, 9815, 10636, 11648, 11662, 12071, 13479, 13504, 15661, 15662, 15663, 16822, 18317, 18378, 19087, 19983, 19998, 20280, 20355, 20444, 22154, 22157.
- T6585 *Typha angustifolia* (Typhaceae); XIA YE XIANG PU; Narrowleaf Cattail Pollen. Used part: pollen. TCM Effects: See *Typha angustata*. TCM Indications: See *Typha angustata*. Isolated compounds: 11648, 12020, 14611, 14628, 14769, 15279, 16822, 16893, 18317, 18378, 18739, 19983, 19998, 22043, 22154, 22843.
- T6586 *Typha capensis* (Typhaceae); HAO WANG JIAO XIANG PU; Cape-of-Good-Hope Cattail. Isolated compounds: 22155, 22156.
- T6587 *Typha latifolia* (Typhaceae); KUAN YE XIANG PU; Broadleaf Cattail Pollen. Used part: pollen. TCM Effects: See *Typha angustata*. TCM Indications: See *Typha angustata*. Isolated compounds: 3766, 7882, 10967, 11648, 11662, 11669, 12071, 12436, 13419, 13479, 18281, 18317, 20444, 22118, 22154.
- T6588 *Typhonium giganteum* (Araceae); YU BAI FU; Giant Typhonium. Used part: tuberoid. TCM Effects: To dispel wind and transform phlegm, free channels and network vessels, resolve toxin and settle pain. TCM Indications: Wind stroke with congesting phlegm, deviated eyes and mouth, migraine, tetanus, poisonous snake bite, scrofula, swollen welling abscess. Isolated compounds: 11083, 11084, 11085, 19987.
- T6589 *Tyromyces fissilis* (Polyporaceae); YI LYE GAN LAO JUN; Easy-lobed Tyromyces\*. Isolated compounds: 21502, 22162, 22163, 22164, 22165, 22166, 22167, 22168.

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- T6590 *Ulex europaeus* (Fabaceae); JING DOU; Common Gorse. Isolated compounds: 4594.
- T6591 *Ulex minor* (Fabaceae); XIAO JING DOU; Small Gorse\*. Isolated compounds: 11514.
- T6592 *Ulex nanus* (Fabaceae); AI JING DOU; Dwarf Gorse. Isolated compounds: 8282.
- T6593 *Ulex* sp. (Fabaceae). Isolated compounds: 3209.
- T6594 *Ulmus americana* (Ulmaceae); MEI ZHOU YU; American Elm. Isolated compounds: 3317.

- T6595 *Ulmus glabra* (Ulmaceae); SHAN YU; Wych Elm. Isolated compounds: 13513.
- T6596 *Ulmus parvifolia* (Ulmaceae); LANG YU PI; Chinese Elm Bark. Used part: bark. TCM Effects: To disinhibit water and free strangury, eliminate welling abscess. Isolated compounds: 9868, 12431, 13513, 13515, 13517, 13951, 20369.
- T6597 *Ulmus pumila* (Ulmaceae); YU SHU; Siberian Elm. Used part: branch. TCM Effects: To disinhibit urine and free strangury. TCM Indications: *Qi* strangury. Isolated compounds: 20369.
- T6598 *Ulva conglobata* (Ulvaceae); LI CAI; Conglobate Ulva Frond\*. Used part: frond. TCM Effects: To clear heat and resolve toxin, disinhibit urine. TCM Indications: Thyroid enlargement, summerheat stroke, edema, inhibited urination. Isolated compounds: 14326.
- T6599 *Ulva lactuca* (Ulvaceae); SHI CHUN; Lettuce Ulva Frond. Equivalent plant: *Ulva lactuca*. Used part: frond. TCM Effects: To disinhibit water and disperse edema, transform phlegm and soften hardness, clear heat and resolve toxin. TCM Indications: Edema, goiter and carcinoma of neck, hypertension, laryngitis, sore and boil, acute enteritis, chronic enteritis, *gan* accumulation. Isolated compounds: 3849, 4473, 6400, 11431, 12445, 14352.
- T6600 *Ulva pertusa* (Ulvaceae); KONG SHI CHUN; Pertusate Ulva Frond. Used part: frond. TCM Effects: See *Ulva lactuca*. TCM Indications: See *Ulva lactuca*. Isolated compounds: 578, 1282, 2222, 3693, 3767, 4473, 4550, 7521, 8011, 9374, 9384, 9491, 11431, 11767, 16345, 16563, 16568, 16884, 20998, 22336, 22556.
- T6601 *Umbilicaria esculenta* [Syn. *Gyrophora esculenta*] (Umbilicariaceae); SHI ER; Rock-Ears\*. Used part: lichen. TCM Effects: To nourish *yin* and moisten lung, cool blood and stanch bleeding, clear heat and resolve toxin. TCM Indications: Lung vacuity taxation cough, blood ejection, spontaneous external bleeding, flooding and spotting [=metrorrhagia and metrorrhagia], intestinal wind bleeding, hemorrhoids and fistulas, prolapse of rectum, strangury-turbidity, vaginal discharge, poisonous snake bites, scalds, knife wound. Isolated compounds: 12598.
- T6602 *Umbilicaria hypococcinea* (Umbilicariaceae); HONG SHI ER; Red-Rock-Ears. Used part: lichen. TCM Effects: To rectify *qi* and promote digestion, disinhibit water and disperse distention. TCM Indications: Indigestion, distending pain in stomach duct, dysentery, *gan* accumulation. Isolated compounds: 2443, 14637, 14639, 16218.
- T6603 *Umbilicaria proboscidea* (Umbilicariaceae); WU LA ER DI YI; Ural's Lichen. Isolated compounds: 22197, 22198.
- T6604 *Uncaria acida* (Rubiaceae); SUAN GOU TENG; Acid Gambirplant\*. Isolated compounds: 4118, 9234, 11679, 18826.
- T6605 *Uncaria africana* (Rubiaceae); FEI ZHOU GOU TENG; African Gambirplant\*. Isolated compounds: 783, 5569, 11539, 11679, 14889, 18826.
- T6606 *Uncaria attenuata* (Rubiaceae); XIA GOU TENG; Narrow Gambirplant\*. Isolated compounds: 906, 907, 4118, 4119, 4120, 5569, 9234, 9552, 9553, 11347, 11679, 14889, 16353, 18553, 18826, 18943, 19176, 22204, 22206.
- T6607 *Uncaria barbata* (Rubiaceae). Isolated compounds: 9234.
- T6608 *Uncaria bernaysii* (Rubiaceae). Isolated compounds: 11539, 11636, 11679, 14889, 18114, 18826, 22206, 22207.
- T6609 *Uncaria borneensis* (Rubiaceae); PO LUO ZHOU GOU TENG; Borneo Gambirplant\*. Isolated compounds: 4118, 9234, 11347, 11679, 18826.
- T6610 *Uncaria callophylla* (Rubiaceae); HOU YE GOU TENG; Thickleaf Gambirplant\*. Isolated compounds: 2981, 2982, 5569, 8125, 8127, 9234, 11432, 11539, 11679, 14889, 18826, 18943.
- T6611 *Uncaria canescens* (Rubiaceae); QIAN HUI GOU TENG; Greyish Gambirplant\*. Isolated compounds: 9234.
- T6612 *Uncaria cordata* (Rubiaceae); XIN XING GOU TENG; Cordate Gambirplant\*. Isolated compounds: 4119, 4120, 5569, 11679, 18826.
- T6613 *Uncaria donisii* (Rubiaceae). Isolated compounds: 11636, 18114, 22206, 22207.
- T6614 *Uncaria elliptica* (Rubiaceae); TUO YUAN GOU TENG; Elliptic Gambirplant\*. Isolated compounds: 783, 826, 5569, 6191, 6853, 9234, 10264, 11539, 11644, 11679, 14889, 18441, 18553, 18554, 18555, 18826, 18943, 18969, 19087, 21862, 21863, 22204.
- T6615 *Uncaria gambir* (Rubiaceae); ER CHA GOU TENG; Gambier Gambirplant. Used part: dry decocted paste of branch-leaf. TCM Effects: To contract damp and close sores, stanch bleeding and settle pain, clear heat and resolve phlegm. TCM Indications: Enduring sores, damp-sore with flowing water, *gan* of teeth and gum, mouth sore, hemoptysis, blood ejection, hematuria, hematochezia, flooding, bleeding due to external injury, hemorrhoids and swollen welling abscess, phlegm-heat cough. Isolated compounds: 3308, 3318, 6853, 8095, 8126, 8127, 14889, 18943, 18968, 22204.
- T6616 *Uncaria guianensis* (Rubiaceae); GUI YA NA GOU TENG; Garabato; Unganangi; Cat's Claw. Isolated compounds: 5569, 9552, 9553, 11539, 11679, 11636, 14889, 18114, 18428, 18432, 18439, 18826, 22206.
- T6617 *Uncaria hirsuta* (Rubiaceae); MAO GOU TENG; Hirsute Gambirplant\*. Isolated compounds: 10887, 11539, 14889, 18826, 19087, 22204.
- T6618 *Uncaria homomalla* [Syn. *Uruparia homomalla*; *Uruparia tonkinensis*; *Uruparia lanosa* var. *parviflora*] (Rubiaceae); BEI YUE GOU TENG; North Viet-Nam Gambirplant. Used part: root. TCM Effects: To dispel wind and free network vessels, calm liver and extinguish wind. TCM Indications: Rheumatic arthritis, sciatica, knocks and falls, fracture, bleeding due to external injury, hypertension, hemiparesis [= hemilateral headache], infant fright wind, prolapse of rectum. Isolated compounds: 11539, 11636, 14889, 18114, 22206, 22207.
- T6619 *Uncaria kawakamii* (Rubiaceae); CHUAN SHANG LONG MI GOU TENG; Kawakami Gambirplant\*. Isolated compounds: 14889.
- T6620 *Uncaria kunstleri* (Rubiaceae). Isolated compounds: 4119, 4120, 9553, 11679, 18826.
- T6621 *Uncaria laevigata* (Rubiaceae); PING HUA FA LIANG GOU TENG; Smooth Gambirplant. Isolated compounds: 11539, 11636, 14889, 22204, 22206.
- T6622 *Uncaria lancifolia* (Rubiaceae); PI ZHEN YE GOU TENG; Lance-leaved Gambirplant. Isolated compounds: 11539, 14889, 18826.
- T6623 *Uncaria lanosa* (Rubiaceae); MIAN MAO GOU TENG; Woolly Gambirplant\*. Isolated compounds: 3308, 7833, 8488, 9234, 11347, 11539, 11636, 14889, 18114, 18553, 21863, 22206, 22207.
- T6624 *Uncaria longiflora* (Rubiaceae); CHANG HUA GOU TENG; Longflower Gambirplant\*. Isolated compounds: 4118, 5569, 6191,

- 8125, 8488, 11347, 11539, 11636, 11679, 14889, 18114, 18826, 22206, 22207.
- T6625 *Uncaria macrophylla* (Rubiaceae); DA YE GOU TENG; Largeleaf Gambirplant. Used part: hooked stem-branch. TCM Effects: See *Uncaria rhynchophylla*. TCM Indications: See *Uncaria rhynchophylla*. Isolated compounds: 4119, 4120, 11679, 11680, 18826.
- T6626 *Uncaria nervosa* (Rubiaceae); DUO MAI GOU TENG; Many-veined Gambirplant\*. Isolated compounds: 5569, 9234, 9552, 9553.
- T6627 *Uncaria orientalis* (Rubiaceae); DONG FANG GOU TENG; Oriental Gambirplant\*. Isolated compounds: 783, 9234, 11539, 11636, 14889, 18114, 22204, 22206, 22207.
- T6628 *Uncaria perrottetii* (Rubiaceae). Isolated compounds: 11539, 14889, 18114, 22206, 22207.  
*Uncaria pilosa* = *Uncaria scandens*
- T6629 *Uncaria rhynchophylla* [Syn. *Nauclea rhynchophylla*] (Rubiaceae); GOU TENG; Sharpleaf Gambirplant. Equivalent plant: *Uncaria sinensis*, *Uncaria macrophylla*. Used part: hooked stem-branch. TCM Effects: To extinguish wind and check tetany, clear heat and calm liver. TCM Indications: Infant fright wind and night crying, exuberant heat stirring wind, epilepsy of pregnancy, liver yang dizziness, liver fire headache. Isolated compounds: 823, 1244, 1252, 2844, 3680, 3681, 4114, 4118, 5550, 5569, 6853, 8251, 9234, 9552, 9553, 10887, 11347, 11377, 11636, 11679, 11680, 14455, 18114, 18824, 18826, 20390, 21634, 22208, 22209, 22210, 22211, 22212, 22328, 22496.
- T6630 *Uncaria roxburghiana* (Rubiaceae). Isolated compounds: 11636, 18114, 22206, 22207.
- T6631 *Uncaria scandens* [Syn. *Nauclea pilosa*; *Uruparia pilosa*; *Uncaria pilosa*] (Rubiaceae); PAN ZHI GOU TENG; Climbing Gambirplant. Isolated compounds: 11539, 11636, 14889, 18114, 22206, 22207.
- T6632 *Uncaria sessilifructus* [Syn. *Nauclea sessilifructus*] (Rubiaceae); BAI GOU TENG; White Gambirplant. Isolated compounds: 4119, 4120, 9553, 11539, 11679, 14889, 18826, 22204, 22207.
- T6633 *Uncaria sinensis* (Rubiaceae); HUA GOU TENG; Chinese Gambirplant. Used part: hooked stem-branch. TCM Effects: See *Uncaria rhynchophylla*. TCM Indications: See *Uncaria rhynchophylla*. Isolated compounds: 2887, 4118, 5550, 9552, 9553, 11347, 11377, 11426, 11537, 11538, 11635, 11636, 11678, 11679, 11680, 14887, 14888, 17876, 18113, 18114, 18825, 18826, 18827, 19542, 22206, 22207.
- T6634 *Uncaria sterrophylla* (Rubiaceae). Isolated compounds: 4119, 4120, 11539, 11636, 11679, 14889, 18114, 18826, 22206, 22207.
- T6635 *Uncaria talbotii* (Rubiaceae). Isolated compounds: 11679, 18826.
- T6636 *Uncaria thwaitesii* (Rubiaceae). Isolated compounds: 6191, 21862.
- T6637 *Uncaria tomentosa* (Rubiaceae); BI LU GOU TENG; Uña de Gato (Cat's Claw). Isolated compounds: 3677, 3678, 3679, 3680, 3681, 5190, 6069, 6071, 6853, 9552, 9553, 11539, 11636, 11679, 13971, 14889, 15747, 16323, 16357, 18114, 18428, 18429, 18430, 18431, 18432, 18433, 18434, 18435, 18436, 18440, 18442, 18824, 18826, 18943, 21441, 21442, 21828, 21833, 21863, 22205, 22206, 22270.
- T6638 *Uncaria velutina* (Rubiaceae); DUAN RONG MAO GOU TENG; Velutinous Gambirplant\*. Isolated compounds: 11539, 11636, 14889, 18114, 22206, 22207.
- T6639 *Uncaria yunnanensis* (Rubiaceae); DIAN GOU TENG; Yunnan Gambirplant. Isolated compounds: 5357.
- T6640 *Undaria pinnatifida* (Alariaceae); QUN DAI CAI; Undaria. Used part: dried thallus. TCM Effects: See *Laminaria japonica*. TCM Indications: See *Laminaria japonica*. Isolated compounds: 935, 7951, 7978, 11123, 11508, 12952, 14618, 15784, 16153, 17265, 19367, 21330, 22556.
- T6641 *Ungernia minor* (Amaryllidaceae); XIAO BO SI SHI SUAN; Small Ungernia\*. Isolated compounds: 22232.
- T6642 *Ungernia trisphaera* (Amaryllidaceae); SAN QIU BO SI SHI SUAN; Trisphaera Ungernia\*. Isolated compounds: 22040.
- T6643 Unsteadiness mould's metabolite. Isolated compounds: 15571.
- T6644 *Upuna borneensis* (Dipterocarpaceae). Isolated compounds: 17284, 17286, 21680, 21681, 21683, 22233, 22234, 22235, 22236.
- T6645 *Urena lobata* (Malvaceae); DI TAO HUA; Rose Mallow. Used part: root or whole herb. TCM Effects: To dispel wind and disinherit damp, quicken blood and disperse swelling, clear heat and resolve toxin. TCM Indications: Common cold, wind-damp impediment pain, dysentery, diarrhea, strangury syndrome, vaginal discharge, menstrual disorder, painful swelling from knocks and falls, throat impediment, mammary welling abscess, sore and boil, poisonous snake bite. Isolated compounds: 13481.
- T6646 *Urginea altissima* (Liliaceae); GAO HAI CONG. Isolated compounds: 10693, 22250.
- T6647 *Urginea epigea* (Liliaceae); CHU TU HAI CONG. Isolated compounds: 300, 9860.
- T6648 *Urginea fugax* (Liliaceae); YI XIAN HAI CONG. Isolated compounds: 7981.
- T6649 *Urginea maritima* (Liliaceae); HAI CONG; Red Squill. Isolated compounds: 278, 279, 3509, 6970, 16349, 19518, 19519, 19520, 19527, 19528, 19529, 19530.
- T6650 *Ursinia anthemoides* (Asteraceae). Isolated compounds: 22268.
- T6651 *Urtica cannabina* (Urticaceae); QIAN MA; Hempleaf Nettle. Equivalent plant: *Urtica dioica*. Used part: whole herb. TCM Effects: To dispel wind and free network vessels, calm liver and settle fright, disperse accumulation and free stool, resolve toxin. TCM Indications: Wind-damp impediment pain, postpartum wind tetany, infant fright wind, sequel of poliomyelitis, hypertension, indigestion, fecal stoppage, urticaria, knocks and falls, snake or insect bites. Isolated compounds: 6454, 7882, 9624, 9625, 9832, 19922, 20254, 21340, 21341, 21343.
- T6652 *Urtica dioica* (Urticaceae); YI ZHU QIAN MA; Dioecious Nettle. Used part: whole herb. TCM Effects: See *Urtica cannabina*. TCM Indications: See *Urtica cannabina*. Isolated compounds: 115, 874, 1935, 2426, 2887, 2912, 3209, 3551, 3766, 3982, 4680, 5564, 7768, 7996, 8078, 8806, 9568, 9815, 9833, 10203, 10967, 11477, 12020, 13127, 13419, 14089, 14308, 14309, 14310, 14311, 15440, 15442, 15525, 15934, 16285, 18317, 18421, 19087, 19542, 19760, 19912, 19983, 19997, 20444, 22336, 22520.  
*Uruparia homomalla* = *Uncaria homomalla*  
*Uruparia lanosa* var. *parviflora* = *Uncaria homomalla*  
*Uruparia pilosa* = *Uncaria scandens*  
*Uruparia tonkinensis* = *Uncaria homomalla*
- T6653 *Usnea diffracta* (Usneaceae); HUAN JIE SONG LUO; Diffract Usnea Filament. Used part: filament. TCM Effects: See *Usnea longissima*.



- TCM Indications: See *Usnea longissima*. Isolated compounds: 2146, 5507, 22282.
- T6654 *Usnea longissima* (Usneaceae); SONG LUO; Long Usnea Filament. Equivalent plant: *Usnea diffracta*. Used part: filament. TCM Effects: To relieve cough and dispel phlegm, clear heat and resolve toxin, dispel damp and free network vessels, regulate menstruation and stanch bleeding, expel worms. TCM Indications: Headache, red eyes, cough with profuse phlegm, malaria, scrofula, vaginal discharge, flooding and spotting, bleeding due to external injury, swollen welling abscess, poisonous snake bite. Isolated compounds: 2146, 5507, 8788, 12982, 12983, 18527, 22282.
- T6655 *Ustilaginoidea virens* (Clavicipitaceae); JING GU NU; Fungus-infected Rice Spike. Used part: sclerotium and conidium, parasitized on spite of rice (*Oryza sativa* L.). TCM Effects: To clear heat and resolve toxin, disinhibit throat. TCM Indications: Throat impediment, swelling pain in throat. Isolated compounds: 22283, 22284.
- T6656 *Ustilago maydis* (Ustilaginaceae); YU MI HEI MEI; Black-powder Fungus in Corn. Used part: sporocarp. TCM Effects: To fortify spleen and stomach, disinhibit liver and gallbladder, quiet spirit. TCM Indications: Hepatitis, ulcer in gastrointestinal tract, indigestion, gan accumulation, insomnia. Isolated compounds: 12488, 14414.
- T6657 *Uvaria acuminata* (Annonaceae); JIAN ZI YU PAN; Acuminate Uvaria\*. Isolated compounds: 594, 2280, 6528, 11323, 11751, 22287, 22290.
- T6658 *Uvaria angolensis* (Annonaceae); GUAN ZI YU PAN; Angola Uvaria\*. Isolated compounds: 2224, 11751, 22287, 22290.
- T6659 *Uvaria boniana* (Annonaceae); GUANG YE ZI YU PAN; Glabrousleaf Uvaria. Isolated compounds: 20051, 22291, 22292, 22293, 22294, 22295, 22296, 22297.
- T6660 *Uvaria chamae* (Annonaceae); AN ZI YU PAN; Low Uvaria. Isolated compounds: 3463, 11321, 11751.
- T6661 *Uvaria dulcis* (Annonaceae); TIAN ZI YU PAN; Sweet Uvaria\*. Isolated compounds: 5820, 5823, 10013.
- T6662 *Uvaria grandiflora* (Annonaceae); DA HUA ZI YU PAN; Largeflower Uvaria. Isolated compounds: 11375, 22298, 22299, 22300.  
*Uvaria heteroclita* = *Kadsura heteroclita*
- T6663 *Uvaria klaineana* (Annonaceae); JIA PENG ZI YU PAN; Gabon Uvaria\*. Isolated compounds: 12232.
- T6664 *Uvaria kweichowensis* (Annonaceae); LIU GUO ZI YU PAN; Kweichou Uvaria. Isolated compounds: 12397, 12398, 22299, 22988.
- T6665 *Uvaria macrophylla* (Annonaceae); DA YE ZI YU PAN; Largeleaf Uvaria\*. Isolated compounds: 13318.
- T6666 *Uvaria narum* (Annonaceae); NA ER ZI YU PAN; Nar Uvaria\*. Isolated compounds: 11375, 16584.
- T6667 *Uvaria scheffleri* (Annonaceae); XIE FEI ZI YU PAN; Scheffleri Uvaria\*. Isolated compounds: 19464.
- edema. TCM Indications: Galactostasis, amenorrhea, dysmenorrhea, mammary welling abscess. Isolated compounds: 9717, 11695, 13659, 19353, 19658, 19659, 19660, 19661, 19662, 19663, 19664, 19665, 19666, 19667, 19668, 22302, 22303, 22304, 22308, 22465.
- T6669 *Vaccinium ashei* (Ericaceae). Isolated compounds: 14575, 22306.
- T6670 *Vaccinium bracteatum* (Ericaceae); NAN ZHU ZHI; Oriental Blueberry Fruit. Used part: fruit. TCM Effects: To supplement liver and kidney, strengthen sinews and bones, secure essence *qi*, check dysentery and diarrhea. TCM Indications: Liver kidney vacuity, premature graying in beard and hair, weakness in sinews and bones, chronic diarrhea, dream emission, incessant vaginal discharge, chronic diarrhea and dysentery. Isolated compounds: 6918, 7951, 9616, 11085.
- T6671 *Vaccinium macrocarpon* (Ericaceae); MEI ZHOU SUAN GUO LUO; American Cranberry. Isolated compounds: 3215, 13126.
- T6672 *Vaccinium* sp. (Ericaceae). Isolated compounds: 4439.
- T6673 *Vaccinium vitis-idaea* (Ericaceae); YUE JU YE; Cowberry Leaf. Used part: leaf. TCM Effects: To disinhibit urine, resolve toxin. TCM Indications: Strangury syndrome, pain wind. Isolated compounds: 324, 1618, 2039, 2893, 6853, 9740, 10623, 17867, 17876, 17884, 17890, 18792.
- T6674 *Valeriana alternifolia* var. *stolonifera* (Valerianaceae); MAO JIE XIE CAO; Hairnode Valeriana\*. Isolated compounds: 22312.
- T6675 *Valeriana amurensis* (Valerianaceae); HEI SHUI XIE CAO; Amur Valeriana. Used part: root and rhizome. TCM Effects: See *Valeriana officinalis*. TCM Indications: See *Valeriana officinalis*. Isolated compounds: 13137, 22312.
- T6676 *Valeriana hardwickii* (Valerianaceae); CHANG XU XIE CAO; Hardwick Valeriana. Used part: root or whole herb. TCM Effects: To quicken blood and regulate menstruation, dispel wind and disinhibit damp, fortify spleen and disperse accumulation. TCM Indications: Menstrual disorder, dysmenorrhea, amenorrhea, wind-damp impediment pain, inhibited urination, painful wound from knocks and falls, angitis. Isolated compounds: 22312, 22314.
- T6677 *Valeriana jatamansii* [Syn. *Valeriana wallichii*] (Valerianaceae); ZHI ZHU XIANG; Jatamans Valeriana. Used part: rhizome. TCM Effects: To rectify *qi* and disperse cold, quicken blood and regulate menstruation. TCM Indications: Sand and painful distention in stomach duct and abdomen, vomiting and diarrhea, beriberi with edema, wind-cold common cold, menstrual disorder, consumption damage and cough. Isolated compounds: 61, 121, 200, 534, 535, 2550, 2555, 2887, 3551, 4550, 5482, 5734, 9593, 9610, 9611, 11766, 12843, 12855, 13283, 13285, 14335, 15500, 16707, 17376, 22312, 22323.
- T6678 *Valeriana laxiflora* (Valerianaceae); SHU HUA JIE CAO; Laxflower Valeriana\*. Isolated compounds: 2331, 2334, 7768, 9854, 10208, 10652, 10820, 16050, 17861, 19312, 21589, 21776, 22270.
- T6679 *Valeriana officinalis* (Valerianaceae); XIE CAO; Common Valeriana. Equivalent plant: *Valeriana officinalis* var. *latifolia*, *Valeriana amurensis*. Used part: root and rhizome. TCM Effects: To quiet heart and spirit, dispel wind-damp, move *qi*-blood, relieve pain. TCM Indications: Disquieted heart spirit, palpitation and insomnia, mania and withdrawal, visceral agitation, wind-damp impediment pain, distending pain in stomach duct, dysmenorrhea, amenorrhea, knocks and falls. Isolated compounds: 582, 928, 2305, 2412, 2550, 2850,

## V

*Vaccaria pyramidata* = *Vaccaria segetalis*

- T6668 *Vaccaria segetalis* [Syn. *Vaccaria pyramidata*] (Caryophyllaceae); WANG BU LIU XING; Cowherb. Used part: seed. TCM Effects: To quicken blood and free menstruation, promote lactation and disperse

- 2887, 3045, 7229, 7749, 8754, 9455, 10601, 10652, 10654, 10655, 11754, 11755, 11762, 12604, 13283, 13590, 15222, 15223, 16884, 17412, 17415, 18279, 20998, 22312, 22313, 22314, 22315, 22316, 22317, 22318, 22319, 22320, 22321, 22323.
- T6680 *Valeriana officinalis* var. *latifolia* (Valerianaceae); KUO YE XIE CAO; Broadleaf Common Valeriana. Used part: root and rhizome. TCM Effects: See *Valeriana officinalis*. TCM Indications: See *Valeriana officinalis*. Isolated compounds: 2555, 3045, 4550, 6482, 12191, 12192, 12193, 12194, 12843, 17376, 17377, 20995, 22312, 22313, 22314.
- T6681 *Valeriana* sp. (Valerianaceae). Isolated compounds: 5482, 11754.
- T6682 *Valeriana* spp. (Valerianaceae). Isolated compounds: 3551, 22312.  
*Valeriana wallichii* = *Valeriana jatamansii*
- T6683 *Vallisneria spiralis* (Hydrocharitaceae); KU CAO; Eelgrass. Used part: whole herb. TCM Effects: To dry damp and check discharge, move *qi* and quicken blood. TCM Indications: Vaginal discharge, postpartum persistent flow of lochia. Isolated compounds: 6722, 20168.
- T6684 *Vanilla planifolia* (Orchidaceae); XIANG ZI LAN; Vanilla. Used part: whole herb. TCM Effects: To clear heat and resolve toxin. TCM Indications: Poisonous snake bites. Isolated compounds: 22336.
- T6685 *Vanilla* sp. (Orchidaceae). Isolated compounds: 1282, 17470, 22336.
- T6686 *Vatica rassak* (Dipterocarpaceae); QING MEI; Rassak *Vatica*\*. Isolated compounds: 17283, 18643, 22354, 22355, 22356, 22357, 22505.
- T6687 *Venidium decurrens* (Asteraceae); NI JIN ZHAN JU; Cape Dandelion. Isolated compounds: 9015.
- T6688 *Ventilago calyculata* (Rhamnaceae); MAO GUO YI HE GUO; Hairyfruit Ventilago. Isolated compounds: 6776.
- T6689 *Ventilago leiocarpa* (Rhamnaceae); YI HE GUO; Smoothfruit Ventilago. Used part: rhizome. TCM Effects: To supplement *qi* and blood, strengthen sinews and bones, soothe channels and network vessels. TCM Indications: *Qi*-blood depletion, menstrual disorder, anemia and amenorrhea, wind-damp pain, knocks and falls, taxation damage in lumbar muscle. Isolated compounds: 1764, 3319, 3615, 6776, 10068, 11191, 11192, 12606, 13098, 16665, 20010, 20369, 20711, 21713, 22377, 22378, 22379.
- T6690 *Vepris louisii* LU YI CI JU; Louis *Vepris*\*. Used part: stem cortex and root cortex. TCM Indications: Dermatitis<sup>[5509]</sup>. Isolated compounds: 22380.
- T6691 *Veratrilba baillonii* (Gentianaceae); HUANG QIN JIAO; Baillon *Veratrilba*. Used part: root. TCM Effects: To clear heat and resolve toxin, kill worms, quicken network vessels and relieve pain. TCM Indications: Lung heat cough, tonsillitis, gastritis, dysentery, chronic cholecystitis, nephritis, mastitis, ascariasis, burns, knocks and falls, swelling toxin of welling abscess and sore. Isolated compounds: 21191, 22387, 22388.
- T6692 *Veratrum album* (Liliaceae); BAI LI LU; White Falsehellebore. Isolated compounds: 4522, 11866, 15395, 15452, 17995, 17996, 18643, 22395, 23033.
- T6693 *Veratrum album* var. *lobelianum* [Syn. *Veratrum lobelianum*] (Liliaceae); BAN BIAN LIAN ZHUANG LI LU; Lobelia Falsehellebore\*. Used part: root and rhizome. TCM Effects: To relieve pain, kill worms and ejection. TCM Indications: Wind-damp impediment pain, knocks and falls, scab and lichen, malign sore, mania and withdrawal with congesting phlegm. Isolated compounds: 783, 22395.
- T6694 *Veratrum californicum* (Liliaceae); JIA ZHOU LI LU; Californian Falsehellebore\*. Isolated compounds: 4522.
- T6695 *Veratrum eschscholtzii* (Liliaceae); AI XI SHOU SHI LI LU; Eschscholtz Falsehellebore\*. Isolated compounds: 15396.
- T6696 *Veratrum fimbriatum* (Liliaceae); LIU SU LI LU; Fimbriate Falsehellebore\*. Isolated compounds: 15396.
- T6697 *Veratrum grandiflorum* (Liliaceae); MAO YE LI LU; Largeflower Falsehellebore. Used part: root and rhizome. TCM Effects: See *Veratrum nigrum*. TCM Indications: See *Veratrum nigrum*. Isolated compounds: 4337, 11866, 18643, 20056, 22386.  
*Veratrum lobelianum* = *Veratrum album* var. *lobelianum*
- T6698 *Veratrum nigrum* (Liliaceae); LI LU; Black Falsehellebore. Equivalent plant: *Veratrum grandiflorum*. Used part: root and rhizome. TCM Effects: To promote vomiting, dispel wind and transform phlegm, lower blood pressure, kill worms. TCM Indications: Wind stroke with congesting phlegm, epilepsy, malaria, scab and lichen, malign sore. Isolated compounds: 3911, 4522, 8352, 11866, 18030, 19030, 20056, 22395, 23031, 23032.
- T6699 *Veratrum nigrum* var. *ussuriense* (Liliaceae); WU SU LI LI LU; Ussuri Falsehellebore. Isolated compounds: 18643, 22434.
- T6700 *Veratrum viride* (Liliaceae); LV LI LU; Green Falsehellebore. Isolated compounds: 8353, 11866, 15395, 15396, 15452, 22386.
- T6701 *Verbascum lychnites* (Scrophulariaceae); JIAN QIU LUO MAO RUI HUA; White Mullein. Isolated compounds: 56, 3306, 3307.
- T6702 *Verbascum phlomoides* (Scrophulariaceae); JU SE MAO RUI HUA; Orange Mullein. Isolated compounds: 4249.
- T6703 *Verbascum saccatum* (Scrophulariaceae); NANG ZHUANG MAO RUI HUA; Saccate Mullein\*. Isolated compounds: 19104.
- T6704 *Verbascum sinuatum* (Scrophulariaceae); DI ZHONG HAI MAO RUI HUA; Mediterranean Mullein. Isolated compounds: 580.
- T6705 *Verbascum thapsus* (Scrophulariaceae); MAO RUI HUA; Flannel Mullein. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, stanch bleeding and dissipate stasis. TCM Indications: Pneumonia, chronic appendicitis, sore toxin, sprain from knocks and falls, bleeding due to external injury. Isolated compounds: 2004, 3306, 4140, 18939.
- T6706 *Verbascum wiedemannianum* (Scrophulariaceae); ZI HUA GUAN MAO RUI HUA; Purplered-corolla Mullein\*. Isolated compounds: 580, 7925, 12726, 13580, 22662, 22663, 22664, 22665, 22666.
- T6707 *Verbena hastata* (Verbenaceae); JI YE MA BIAN CAO; Hastate Verbena. Isolated compounds: 9244, 22397.
- T6708 *Verbena littoralis* (Verbenaceae); HAI BIAN MA BIAN CAO; Littoral Verbena\*. Isolated compounds: 8259, 12934.
- T6709 *Verbena officinalis* (Verbenaceae); MA BIAN CAO; European Verbena. Used part: aerial parts. TCM Effects: To quicken blood and dissipate stasis, interrupt malaria, resolve toxin, disinhibit water and disperse edema. TCM Indications: Malaria, amenorrhea and dysmenorrhea, throat impediment, edema, heat strangury, diphtheria, bilharziosis, dysentery, concretion conglomeration accumulation and gathering. Isolated compounds: 618, 1792, 4060, 5735, 6123, 9244, 10698,

- 22270, 22271, 22397.
- T6710 *Verbena stricta* (Verbenaceae); JIAN TING MA BIAN CAO; Strict Verbena\*. Isolated compounds: 22397.
- T6711 *Verbena triphylla* [Syn. *Lippia citriodora*] (Verbenaceae); SAN YE MA BIAN CAO; Trifoliolate Verbena\*. Isolated compounds: 3760, 22399.
- T6712 *Vernonia amygdalina* (Asteraceae); BIAN TAO ZHUANG BAN JIU JU; Bitterleaf. Isolated compounds: 22405, 22412, 22414.
- T6713 *Vernonia anthelmintica* (Asteraceae); QU CHONG BAN JIU JU; Worm-killed Bitterleaf. Used part: fruit or whole herb. TCM Effects: To dispel wind and quicken blood, kill worms and relieve itch, resolve toxin. TCM Indications: White patch wind, skin diseases, oxyuria disease, ascariasis. Isolated compounds: 2559, 22406.
- T6714 *Vernonia chinense* (Asteraceae); ZHONG GUO BAN JIU JU; Chinese Bitterleaf\*. Isolated compounds: 22407.
- T6715 *Vernonia colorata* (Asteraceae); YOU SE BAN JIU JU; Colorful Bitterleaf. Isolated compounds: 22412.
- T6716 *Vernonia esculenta* (Asteraceae); BAN JIU JU; Edible Bitterleaf. Used part: root or leaf. TCM Effects: To clear heat and resolve toxin, engender flesh and close sores. TCM Indications: Appendicitis, sore and boil, burns and scalds. Isolated compounds: 22405, 22411, 22413, 22414.
- T6717 *Vernonia flexuosa* (Asteraceae); WAN YAN BAN JIU JU; Flexuous Bitterleaf\*. Isolated compounds: 22407, 22408.
- T6718 *Vernonia guineensis* (Asteraceae); JI NEI YA BAN JIU JU; Guinea Bitterleaf\*. Isolated compounds: 5490, 5493, 16861, 22409, 22410.
- T6719 *Vernonia lasiopus* (Asteraceae). Isolated compounds: 7032, 12541, 22406.
- T6720 *Vernonia pogosperma* (Asteraceae); BO GE BAN JIU JU; Manysperma Bitterleaf\*. Isolated compounds: 17600.
- T6721 *Vernonia* sp. (Asteraceae). Isolated compounds: 7226.
- T6722 *Veronica anagallis-aquatica* (Scrophulariaceae); BEI SHUI KU MAI; Watery Speedwell. Used part: whole herb with insect gall fruit. TCM Effects: To clear heat and resolve toxin, quicken blood and stanch bleeding. TCM Indications: Common cold, sore pharynx, taxation damage hemoptysis, dysentery, blood strangury, menstrual disorder [=menoxenia], swelling of sores, knocks and falls. Isolated compounds: 1538, 1539, 1540, 10353, 10355.
- T6723 *Veronica arvensis* (Scrophulariaceae); ZHI LI PO PO NA; Common Speedwell. Used part: whole herb. TCM Effects: To clear heat, interrupt malaria. TCM Indications: Malaria. Isolated compounds: 2004.
- T6724 *Veronica liwanensis* (Scrophulariaceae). Isolated compounds: 10352, 10356.
- T6725 *Veronica longifolia* (Scrophulariaceae); CHANG WEI PO PO NA; Longleaf Speedwell. Isolated compounds: 10352, 10356.
- T6726 *Veronica pectinata* var. *glandulosa* (Scrophulariaceae); SHU CHI PO PO NA; Pectinate Speedwell\*. Isolated compounds: 6718, 22416, 22417, 22418.
- T6727 *Veronica persica* (Scrophulariaceae); A LA BO PO PO NA; Iran Speedwell. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, strengthen lumbus, interrupt malaria. TCM Indications: Wind-damp impediment pain, kidney vacuity lumbago, enduring malaria. Isolated compounds: 580, 1082, 2004, 3307, 6632, 10353, 11195, 12577, 16994, 22392, 22403, 22415, 22419.
- T6728 *Veronica serpyllifolia* (Scrophulariaceae); XIAO PO PO NA; Thymeleaf Speedwell. Used part: whole herb. TCM Effects: To quicken blood and dissipate stasis, stanch bleeding, resolve toxin. TCM Indications: Knocks and falls, menstrual disorder, bleeding due to external injury, mouth sore, burns and scalds. Isolated compounds: 2004.
- T6729 *Veronica spuria* (Scrophulariaceae); YI ZHI XIANG; Bastard Speedwell. Used part: herb. TCM Effects: To suppress cough, transform phlegm, calm asthma. TCM Indications: Chronic trachitis. Isolated compounds: 10351, 13504.
- T6730 *Veronica thymoides* ssp. *pseudocinerea* (Scrophulariaceae); JIA HUI SE JIU LI XIANG PO PO NA; Thyme Speedwell\*. Isolated compounds: 85, 2279, 3674, 6074, 6081, 7557, 10694, 10695, 11704.
- T6731 *Veronicastrum sibiricum* (Scrophulariaceae); ZHAN LONG JIAN; Siberian Veronicastrum. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, dispel wind and eliminate damp, relieve pain. TCM Indications: Wind-damp pain in lumbus and legs, courbature, common cold, cystitis, tuberculosis, bleeding due to external injury, poisonous snake bite, poisonous insect stings. Isolated compounds: 3674, 4292, 5721, 12987, 13504, 14871, 19867, 19868, 19869, 19870, 20685, 20686.
- T6732 *Vespertilio superans* (Vespertilionidae); YE MING SHA; Bat Dung. Used part: dried feces. TCM Effects: To clear heat and brighten eyes, dissipate blood and eliminate accumulation. TCM Indications: Clear-eye blindness, night blindness, internal or external obstruction and screen, scrofula, gan accumulation, malaria. Isolated compounds: 3585, 22246, 22251.
- T6733 *Vetiveria zizanioides* (Poaceae); YAN LAN CAO; Vetiver. Isolated compounds: 22440, 22441.
- T6734 *Viburnum awabuki* (Caprifoliaceae); RI BEN JIA MI; Japanese Viburnum. Isolated compounds: 7033, 7034, 7036, 7037, 14399, 14404, 14615, 14616, 14617, 14648, 14808, 15472, 15473, 15474, 15475, 22443, 22444, 22446, 22448, 22451, 22452, 22453, 22454, 22455, 22456, 22457, 22458.
- T6735 *Viburnum dilatatum* (Caprifoliaceae); JIA MI; Linden Viburnum. Used part: stem-leaf. TCM Effects: To course wind and resolve exterior, clear heat and resolve toxin, quicken blood. TCM Indications: Wind-heat common cold, clove sore with fever, postpartum wind tetany, fracture due to knocks and falls. Isolated compounds: 15864.
- T6736 *Viburnum erubescens* (Caprifoliaceae); HONG JIA MI; Red Viburnum\*. Isolated compounds: 9259.
- T6737 *Viburnum luzonicum* (Caprifoliaceae); LV SONG JIA MI; Luzon Viburnum\*. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, quicken blood. TCM Indications: Wind-damp impediment pain, knocks and falls. Isolated compounds: 13153, 13154, 13155, 13156, 13157, 13158, 13159, 13160, 13161, 13162, 13163, 13164, 13165, 13166, 13167.
- T6738 *Viburnum odoratissimum* (Caprifoliaceae); XIANG QI JIA MI; Sweet Viburnum\*. Used part: Leaf, bark, root. TCM Effects: To dispel wind and eliminate damp, free channels and quicken network vessels. TCM Indications: Common cold, wind-damp impediment pain, painful

- swelling from knocks and falls, fracture. Isolated compounds: 881, 882, 7035, 7036, 7219, 7220, 10343, 10344, 10345, 10823, 14807, 22442, 22443, 22444, 22445, 22446, 22447, 22449, 22450, 22459, 22460.
- T6739 *Viburnum prunifolium* (Caprifoliaceae); YING YE JIA MI; Blackhaw. Isolated compounds: 19184.
- T6740 *Viburnum suspensum* (Caprifoliaceae); XUAN CHUI JIA MI; Weeping Viburnum\*. Isolated compounds: 10576, 10577, 16400.
- T6741 *Viburnum tinus* (Caprifoliaceae). Isolated compounds: 6378, 19543, 22462, 22463.
- T6742 *Vicia amoena* (Fabaceae); SHAN YE WAN DOU; Broadleaf Vetch. Used part: whole herb. TCM Effects: To dispel wind and eliminate damp, quicken blood and relieve pain. TCM Indications: Wind-damp pain, hypertonicity of sinews and vessels, scrotal eczema, knocks and falls, innominate toxin swelling, nosebleed(epistaxis), flooding and spotting. Isolated compounds: 1069, 12020.
- T6743 *Vicia angustifolia* (Fabaceae); ZHAI YE YE WAN DOU; Narrowleaf Vetch. Isolated compounds: 18324, 18325, 22465.
- T6744 *Vicia faba* (Fabaceae); CAN DOU; Broadbean. Used part: seed. TCM Effects: To fortify spleen and disinhibit water, resolve toxin and disperse swelling. TCM Indications: Diaphragm food, edema, sore toxin. Isolated compounds: 2331, 6558, 8806, 11825, 17425, 22466, 22741, 22742.
- T6745 *Vicia faba* (Fabaceae); CAN DOU JIA KE; Broadbean Pericarp. Used part: pericarp. TCM Effects: To stanch bleeding, close sores. TCM Indications: Hemoptysis, nosebleed(epistaxis), hematuria, bleeding of digestive tract, heaven-borne sore, scalds. Isolated compounds: 6558, 8806.
- T6746 *Vicia faba* (Fabaceae); CAN DOU JING; Broadbean Stem. Used part: stem. TCM Effects: To stanch bleeding, check diarrhea, resolve toxin and close sores. TCM Indications: Internal bleeding, water diarrhea, scalds. Isolated compounds: 8806.
- T6747 *Vicia faba* (Fabaceae); CAN DOU YE; Broadbean Leaf. Used part: leaf. TCM Effects: To stanch bleeding, close sores. TCM Indications: Tuberculosis and hemoptysis, bleeding of digestive tract, bleeding due to external injury, shank sore. Isolated compounds: 6558, 7853, 8806, 12060, 17515.
- T6748 *Vicia faba* var. *equina* (Fabaceae); MA CAN DOU; Horse Bean. Isolated compounds: 22466.
- T6749 *Vicia hirsuta* (Fabaceae); XIAO CHAO CAI; Pigeon Vetch. Used part: whole herb. TCM Effects: To resolve exterior and disinhibit damp, regulate menstruation and stanch bleeding. TCM Indications: Jaundice, malaria, menstrual disorder, nosebleed(epistaxis), Vaginal discharge. Isolated compounds: 1502.
- T6750 *Vicia sativa* (Fabaceae); DA CHAO CAI; Common Vetch. Used part: whole herb or seed. TCM Effects: To boost kidney, disinhibit water, relieve cough, stanch bleeding. TCM Indications: Kidney vacuity lumbago, jaundice, edema, malaria, nosebleed(epistaxis), palpitation, emission, menstrual disorder, toxin swelling of sores. Isolated compounds: 4452, 9717, 9798, 11642, 22465, 22466.
- T6751 *Vicia* sp. (Fabaceae). Isolated compounds: 1048, 1866, 9798, 10165.
- T6752 *Vigna angularis* [Syn. *Dolichus angularis*; *Phaseolus angularis*] (Fabaceae); CHI DOU; Assuki Bean. Used part: seed. TCM Effects: To disinhibit water, disperse edema and abate jaundice, clear heat, resolve toxin and disperse welling abscess. TCM Indications: Edema, leg qi, jaundice, strangury, hematochezia, swelling toxin sores, lichen papules. Isolated compounds: 2058, 2059, 2060, 2065, 2066, 2067, 2068, 2069, 2070, 13107, 17876.
- T6753 *Vigna* sp. (Fabaceae). Isolated compounds: 18859.
- T6754 *Vigna unguiculata* (Fabaceae); JIANG DOU; Cow-pea. Used part: seed. TCM Effects: To fortify spleen and disinhibit damp, supplement kidney and rough essence. TCM Indications: Spleen-stomach vacuity, diarrhea and dysentery, vomiting of sour matter, kidney vacuity lumbago, emission, diabetes mellitus, leukorrhea, white turbidity, frequent urination. Isolated compounds: 17047, 17048, 22474.
- T6755 *Viguiera eriophora* ssp. *eriophora* (Asteraceae). Isolated compounds: 390, 2698, 2946, 7286, 9292, 12198, 12199, 12671, 21726.
- T6756 *Viguiera puruana* (Asteraceae). Isolated compounds: 447, 7286, 7408, 12671.
- T6757 *Viguiera stenoloba* (Compositae). Isolated compounds: 22475.
- T6758 *Viguiera tucumanensis* (Compositae). Isolated compounds: 3840.
- T6759 *Vinca erecta* (Apocynaceae); ZHI LI CHANG CHUN HUA; Erect Periwinkle. Isolated compounds: 12120, 12268, 22502, 22503.
- T6760 *Vinca herbacea* [Syn. *Vinca major*] (Apocynaceae); DA CHANG CHUN HUA; Greater Periwinkle. Isolated compounds: 12268, 18634, 19762, 22489, 22490.  
*Vinca major* = *Vinca herbacea*
- T6761 *Vinca minor* (Apocynaceae); MAN CHANG CHUN HUA; Common Periwinkle. Isolated compounds: 6677, 18623, 22489, 22495.
- T6762 *Vinca* sp. (Apocynaceae). Isolated compounds: 5191.
- T6763 *Vincetoxicum officinale* [Syn. *Cynanchum vincetoxicum*] (Asclepiadaceae); YAO YONG BAI QIAN; White Swallow-wort. Isolated compounds: 22151, 22492.
- T6764 Vinegar CU Vinegar; Vinegar. TCM Effects: To stanch bleeding and dissipate stasis, resolve toxin and kill worms. TCM Indications: Postpartum blood dizziness, concretion and conglomeration, jaundice, yellow sweating, blood ejection, spontaneous external bleeding, hematochezia, itching in genital region, swelling of welling abscess, welling abscess and flat abscess with swelling sore. Isolated compounds: 108, 111, 5748, 7881.
- T6765 *Viola* sp. (Violaceae). Isolated compounds: 11183, 11184, 17470.
- T6766 *Viola tricolor* (Violaceae); SAN SE JIN; Garden Pansy. Used part: whole herb. TCM Effects: To suppress cough. TCM Indications: Cough, scrofula, infection of upper respiratory tract. Isolated compounds: 2017, 2039, 17264, 22519, 22521.
- T6767 *Viola yedoensis* (Violaceae); ZI HUA DI DING; Tokyo Violet. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and disperse swelling. TCM Indications: Welling abscess and flat abscess with clove sore, erysipelas, mumps, mammary welling abscess, intestinal welling abscess, scrofula, damp-heat diarrhea dysentery, jaundice, red eyes with gall, poisonous snake bites. Isolated compounds: 1480, 1481, 1501, 11306, 22522.
- T6768 *Virola caducifolia* (Myristicaceae); LUO HUA NAN MEI ROU DOU KOU. Isolated compounds: 7883.
- T6769 *Virola multinervia* (Myristicaceae); DUO MAI NAN MEI ROU DOU KOU. Isolated compounds: 7883.

- T6770 *Virola surinamensis* [Syn. *Myristica surinamensis*] (Myristicaceae); SU LI NAN ROU DOU KOU; Ucahub; Baboen. Isolated compounds: 10515, 10516, 14381, 14383, 20492.
- T6771 *Viscum album* (Loranthaceae); LUAN YE HU JI SHENG; White Mistletoe. Used part: stem and branch-leaf. TCM Effects: To dispel wind-damp, strengthen sinews and bones, promote lactation. TCM Indications: Wind-damp impediment pain, limp wilting sinew and bone, lumbago and limp leg, postpartum scant milk. Isolated compounds: 22158.
- T6772 *Viscum angulatum* (Loranthaceae); LENG ZHI HU JI SHENG; Angulate Mistletoe\*. Used part: stem-leaf. TCM Effects: To dispel wind-damp, strengthen sinews and bones, relieve cough, disperse swelling, lower blood pressure. TCM Indications: Wind-damp impediment pain, aching in lumbus and legs, cough, hemoptysis, stomachache, stirring fetus disquieted, sore and boil, hypertension. Isolated compounds: 9604, 15279, 17404, 18683, 21179, 22540.
- T6773 *Viscum articulatum* (Loranthaceae); BIAN ZHI HU JI SHENG; Flatshort Mistletoe. Used part: branchlet-leaf. TCM Effects: See *Viscum articulatum*. TCM Indications: See *Viscum articulatum*. Isolated compounds: 16050, 17405, 17407.
- T6774 *Viscum articulatum* (Loranthaceae); FENG XIANG JI SHENG; Flatshoot Mistletoe. Equivalent plant: *Viscum articulatum*. Used part: branchlet-leaf. TCM Effects: To dispel wind and eliminate damp, soothe sinews and quicken blood, relieve cough and transform phlegm, stanch bleeding. TCM Indications: Wind-damp impediment pain, limp aching lumbus and knees, painful wound from knocks and falls, taxation damage cough, flooding and spotting with vaginal discharge, postpartum blood *qi* vacuity. Isolated compounds: 7338, 11083, 11084, 11085, 12905, 16050, 22536.
- T6775 *Viscum coloratum* (Loranthaceae); HU JI SHENG; Colored Mistletoe. Used part: stem and branch-leaf. TCM Effects: To dispel wind-damp, supplement liver and kidney, strengthen sinews and bones, quiet fetus. TCM Indications: Hypertension, cerebral and cardiovascular diseases, wind-damp impediment pain, limp aching lumbus and knees, stirring fetus in pregnancy. Isolated compounds: 7280, 9604, 9605, 9705, 14418, 16050, 18675, 22536, 22537, 22538, 22539, 22540, 22541, 22542.
- T6776 *Viscum cruciatum* (Loranthaceae); SHI ZI XING FENG JI SHENG; Cruciate Mistletoe\*. Isolated compounds: 4930.
- T6777 *Viscum multinerve* (Loranthaceae); BING GUO HU JI SHENG; Stipefruit Mistletoe. Used part: stem-leaf. TCM Effects: To dispel wind-damp, supplement liver and kidney, quicken blood and relieve pain, quiet fetus, promote lactation. TCM Indications: Wind-damp impediment pain, pain in lumbus and legs, knocks and falls, hypertension, stirring fetus disquieted, breast milk stoppage. Isolated compounds: 16823, 18675.
- T6778 *Viscum* sp. (Loranthaceae). Isolated compounds: 19922.
- T6779 *Vismia guianensis* (Clusiaceae). Isolated compounds: 22543, 22544, 22545, 22546, 22547, 22548, 22549.
- T6780 *Vismia orientalis* (Clusiaceae); DONG FANG WEI SI MU; Oriental Vismia\*. Isolated compounds: 2346, 6776, 8325, 22551.
- T6781 *Vismia* sp. (Clusiaceae). Isolated compounds: 13808.
- T6782 *Vitex agnuscastus* (Verbenaceae); SUI HUA MU JING; Lilac Chastetree. Isolated compounds: 750, 751, 752, 5308.
- T6783 *Vitex altissima* (Verbenaceae); ZUI GAO MU JING YE; Highest Chastetree Leaf\*. Isolated compounds: 1009, 9827.
- T6784 *Vitex littoralis* (Verbenaceae); BIN MU JING; Littoral Chastetree\*. Isolated compounds: 11773, 22581.
- T6785 *Vitex lucens* (Verbenaceae); XIN XI LAN MU JING; Puriri. Isolated compounds: 2455, 11773, 22581.
- T6786 *Vitex megapotamica* (Verbenaceae). Isolated compounds: 18162.
- T6787 *Vitex negundo* (Verbenaceae); HUANG JING GEN; Negundo Chastetree Root. Used part: root. TCM Effects: To resolve exterior, relieve cough, dispel wind and eliminate damp, rectify *qi* and relieve pain. TCM Indications: Common cold, chronic trachitis, wind-damp impediment pain, stomachache, sand *qi*, abdominal pain. Isolated compounds: 15322, 15323.
- T6788 *Vitex negundo* (Verbenaceae); HUANG JING YE; Negundo Chastetree Leaf. Used part: leaf. TCM Effects: To clear heat and resolve exterior, resolve toxin and disinhibit damp. TCM Indications: Common cold, summerheat stroke, vomiting and diarrhea, dysentery, malaria, jaundice, rheumatism, painful swelling from knocks and falls, sore and welling abscess, scab and lichen. Isolated compounds: 107, 2259, 3300, 5319, 5387, 5401, 5536, 6483, 6500, 9507, 10252, 15324, 15628.
- T6789 *Vitex negundo* (Verbenaceae); HUANG JING ZHONG ZI; Negundo Chastetree Seed\*. Used part: fruit. TCM Effects: To dispel wind and resolve exterior, relieve cough and calm asthma, rectify *qi* and disperse food with relieving pain. TCM Indications: Wind damage and common cold, cough, asthma, stomachache with acid regurgitation, indigestion, food accumulation diarrhea, cholecystitis, gallstones, mounting *qi* [=hernia]. Isolated compounds: 5279, 5582, 10185, 22565, 22566, 22567, 22594, 22595.
- T6790 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (Verbenaceae); DAN YE MAN JING; Simpleleaf Shrub Chastetree. Isolated compounds: 5279, 5280, 5281, 22590, 22591, 22592, 22593, 22594, 22595.
- T6791 *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*] (Verbenaceae); DAN YE MAN JING ZI; Simpleleaf Shrub Chastetree Fruit. Used part: seed. TCM Effects: See *Vitex trifolia*. TCM Indications: See *Vitex trifolia*. Isolated compounds: 159, 1792, 3045, 3300, 6160, 11208, 17376, 17377, 18656, 22571, 22575, 22576, 22577, 22578, 22580.
- T6792 *Vitex trifolia* (Verbenaceae); MAN JING YE; Threeleaf Chastetree Leaf. Equivalent plant: DAN YE MAN JING YE. Used part: leaf. TCM Effects: To disperse swelling and relieve pain. TCM Indications: Head wind, knocks and falls. Isolated compounds: 20999.
- T6793 *Vitex trifolia* (Verbenaceae); MAN JING ZI; Threeleaf Chastetree Fruit. Equivalent plant: *Vitex rotundifolia*. Used part: seed. TCM Effects: To dispel wind-heat, clear head and eyes. TCM Indications: Externally contracted wind-heat, dizziness and headache, migraine, gum swelling and pain, red eyes with gall, delacrimation, wind-damp impediment pain, hypertonicity of limbs. Isolated compounds: 6, 227, 3300, 3624, 3689, 4204, 4205, 5718, 9818, 12891, 15203, 16066, 16561, 17089, 17851, 18955, 19983, 19987, 20280, 20995, 21414, 22336, 22568, 22569, 22570, 22571, 22572, 22573, 22574, 22579, 22580, 22581. *Vitex trifolia* var. *simplicifolia* = *Vitex rotundifolia*

- T6794 *Vitis amurensis* (Vitaceae); SHAN PU TAO; Amur Grape. Used part: fruit. TCM Effects: To clear heat and disinhibit urine. TCM Indications: Heat vexation and thirst, urinary tract infection, inhibited urination. Isolated compounds: 1090, 1092, 1093, 1095, 17889, 22505, 22506, 22508, 22584, 22585, 22588, 22589.
- T6795 *Vitis coignetiae* (Vitaceae); XIE PU TAO; Coigne Grape\*. Isolated compounds: 22586.
- T6796 *Vitis* sp. (Vitaceae). Isolated compounds: 13460.
- T6797 *Vitis* spp. (Vitaceae). Isolated compounds: 18643.
- T6798 *Vitis vinifera* (Vitaceae); PU<sup>(2)</sup> TAO; European Grape. Used part: fruit. TCM Effects: To supplement *qi* and blood, strengthen sinews and bones, disinhibit urine. TCM Indications: Vacuity of *qi* and blood, lung vacuity cough, palpitation and night sweating, wind-damp impediment pain, strangury, edema. Isolated compounds: 943, 1445, 1446, 1447, 2808, 3308, 3318, 7026, 8095, 8307, 8806, 9696, 9818, 14229, 16010, 16550, 16901, 17024, 17869, 17876, 17884, 18163, 18643, 18644, 18645, 18646, 19912, 20715, 21849, 22504, 22505, 22507, 22587.
- T6799 *Vitis vinifera* (Vitaceae); PU TAO TENG YE; European Grape Stem and Leaf. Used part: stem-leaf. TCM Effects: To dispel wind and eliminate damp, disinhibit water and disperse edema, resolve toxin. TCM Indications: Edema, inhibited urination, red eyes, swollen welling abscess, wind-damp impediment pain. Isolated compounds: 8806, 18421.
- T6800 *Viverra zibetha* (Viverridae); LING MAO XIANG; Civet. Used part: secretion with a musky odor secreted from anal scent glands. TCM Effects: To move *qi*, quicken blood, quiet spirit, relieve pain. TCM Indications: Sudden pain in heart and abdomen, mounting *qi*. Isolated compounds: 3780, 7420, 11025, 17935, 19459.
- T6801 *Vladimiria denticulata* (Asteraceae); YUE XI MU XIANG; Denticulate Vladimiria. Used part: root. TCM Effects: To rectify *qi*, relieve pain. TCM Indications: Pain in stomach duct and rib-side, diarrhea, dysentery, indigestion. Isolated compounds: 4128, 4891.
- T6802 *Vladimiria souliei* [Syn. *Jurinea souliei*] (Asteraceae); CHUAN MU XIANG; Common Vladimiria. Used part: root. TCM Effects: To move *qi* and relieve pain. TCM Indications: Distending pain in stomach duct, rumbling intestines and diarrhea, tenesmus, liver gallbladder pain. Isolated compounds: 4128, 4891, 13588, 15705.
- T6803 *Volvariella volvacea* (Pluteaceae); CAO GU; Straw Mushroom. Used part: sporocarp. TCM Effects: To clear heat and resolve summerheat, supplement *qi* and blood, lower blood pressure. TCM Indications: Summerheat-heat vexation and thirst, vacuity and hypodynamia, hypertension. Isolated compounds: 14229, 14237.
- T6804 *Vouacapoua americana* (Fabaceae); MEI GUO KE YA SHU; American Vouacapoua\*. Isolated compounds: 3276, 14814, 22619.
- T6805 *Vouacapoua macropetala* (Fabaceae); CHANG HUA BAN KE YA SHU; Longpetal Vouacapoua\*. Isolated compounds: 17278.
- W**
- T6806 *Walsura piscidia* (Meliaceae); PI XI DI GE SHE SHU; Piscidi Cuttongue tree\*. Isolated compounds: 17480.
- T6807 *Walsura yunnanensis* (Meliaceae); YUN NAN GE SHE SHU; Yunnan Cuttongue tree. Isolated compounds: 22631.
- T6808 *Waltheria americana* (Sterculiaceae); HE TA CAO; Florida Waltheria. Used part: root and stem. TCM Effects: To expel wind and eliminate damp, resolve toxin and eliminate inflammation. TCM Indications: Vaginal discharge, welling abscess and boil, mastitis. Isolated compounds: 648, 649, 650, 651.
- T6809 *Waltheria douradinha* (Sterculiaceae). Isolated compounds: 14815, 22632, 22633, 22634.
- T6810 *Warburgia salutaris*. Isolated compounds: 22638.
- T6811 *Warburgia stuhlmannii*. Isolated compounds: 6377, 11670, 15023, 15024, 15025.
- T6812 *Warburgia ugandensis*. Isolated compounds: 12017, 12084, 12100, 18388.
- T6813 *Warionia saharae*. Isolated compounds: 4941, 5274, 5275, 5494, 5794, 7115, 7182, 9564, 10155, 14195, 14978, 18673, 19128, 19129.  
*Wedelia calendulacea* = *Wedelia chinensis*
- T6814 *Wedelia chinensis* [Syn. *Solidago chinensis*; *Wedelia calendulacea*] (Asteraceae); PENG QI JU; Chinese Wedelia. Used part: whole herb. TCM Effects: To clear heat and resolve toxin, cool blood and dissipate stasis. TCM Indications: Common cold with fever, pharyngolaryngitis, parotitis, tonsillitis, diphtheria, pertussis, trachitis, pneumonia, tuberculosis and hemoptysis, nosebleed(epistaxis), hematuria, infective hepatitis, dysentery, hemorrhoids, swelling toxin of clove sore. Isolated compounds: 5101.
- T6815 *Wedelia* sp. (Asteraceae). Isolated compounds: 11794.
- T6816 *Welwitschia mirabilis* (Welwitschiaceae); BAI SUI YE; Longlived Leaf. Isolated compounds: 8881.
- T6817 widely distributed in nature ; Widely distributed in nature. Isolated compounds: 618, 19759, 21342, 22324.
- T6818 *Wigandia urens* (Hydrophyllaceae). Isolated compounds: 6008, 14004, 14027.
- T6819 *Wikstroemia chamaedaphne* (Thymelaeaceae); HE SHUO YAO HUA; Lowdaphne Stringbush. Used part: bud. TCM Effects: To drain precipitation and expel water, reduce phlegm. TCM Indications: Edema, distention fullness in stomach duct, phlegm-rheum, cough and counterflow with asthma and fullness, infective hepatitis, schizophrenia, epilepsy. Isolated compounds: 15935, 22929.
- T6820 *Wikstroemia indica* (Thymelaeaceae); LIAO GE WANG GEN; Indian Stringbush Root. Used part: root. TCM Effects: To clear heat, disinhibit urine, resolve toxin, break accumulation and kill worms. TCM Indications: Pertussis, rheumatic arthritis, leprosy, bronchial asthma, amebic dysentery, pneumonia, epidemic parotitis, edema, scrofula, toxin swelling of sores, swelling and pus of sores, knocks and falls. Isolated compounds: 1621, 2490, 2491, 4651, 4657, 11017, 15805, 15809, 19891, 19892, 20556, 21589, 22668.
- T6821 *Wikstroemia lanceolata* (Thymelaeaceae); PI ZHEN XING YAO HUA; Lanceolate Stringbush\*. Isolated compounds: 1537, 5376, 6204, 9035, 9544.
- T6822 *Wikstroemia monticola* (Thymelaeaceae); SHAN DI YAO HUA; Country Stringbush\*. Isolated compounds: 19902.
- T6823 *Wikstroemia sikokiana* (Thymelaeaceae); SI GUO YAO HUA; Siko Stringbush\*. Isolated compounds: 19890.
- T6824 *Wikstroemia* sp. (Thymelaeaceae). Isolated compounds: 17409, 20556.
- T6825 *Winchia calophylla* (Apocynaceae); PEN JIA SHU; Prettyleaf Winchia.

- Used part: leaf or bark. TCM Effects: To relieve cough and calm asthma. TCM Indications: Cough and asthma, enduring cough and asthma. Isolated compounds: 372, 6698.
- T6826 *Wisteria sinensis* (Fabaceae); ZI TENG; Chinese Wisteria. Used part: stem-leaf. TCM Effects: To disinhibit water, eliminate impediment, kill worms. TCM Indications: Edema, pain in joints, intestinal parasitic disease. Isolated compounds: 916, 917, 4594.
- T6827 *Wisteria sinensis* (Fabaceae); ZI TENG ZI; Chinese Wisteria Seed. Used part: seed. TCM Effects: To quicken blood and free network vessels, resolve toxin, kill worms. TCM Indications: Pain in sinews and bones, vomiting diarrhea with abdominal pain, child oxyuria disease. Isolated compounds: 4594.
- T6828 *Withania coagulans* (Solanaceae); NING GU SHUI QIE; Coagulate Withania. Isolated compounds: 3859, 9743, 10092, 22699, 22702.
- T6829 *Withania somnifera* (Solanaceae); CUI MIAN SHUI QIE; Somniferous Withania. Isolated compounds: 3859, 5739, 5740, 5879, 5880, 7082, 7128, 7129, 7210, 7210, 7211, 7212, 7213, 10587, 10828, 13181, 14230, 16789, 17237, 21148, 22698, 22700, 22700, 22700, 22702, 22704, 22705, 22706, 22707, 22708, 22709, 22710, 22711, 22712, 22713, 22714.
- T6830 *Woodfordia fruticosa* (Lythraceae); XIA ZI HUA; Shrubby Woodwardia. Used part: root or flower. TCM Effects: To quicken blood and stanch bleeding, soothe sinews and quicken network vessels. TCM Indications: Dysmenorrhea, menstrual block, flooding, nosebleed(epistaxis), coughing of blood, intestinal wind bleeding, dysentery, wind-damp impediment pain, taxation damage in lumbar muscle, knocks and falls. Isolated compounds: 15719.
- T6831 *Woodwardia orientalis* (Blechnaceae); DONG FANG GOU JI; Oriental Chain Fern. Used part: rhizome. TCM Effects: To dispel wind-damp, supplement liver and kidney, strengthen lumbus and knees, resolve toxin, kill worms. TCM Indications: Aching pain in lumbus and back, knee pain and legs weakness, dysentery, flooding and spotting, leukorrhea, child gan accumulation, concretion and conglomeration, snake bite. Isolated compounds: 3040, 3042, 3043, 3044, 11067, 17700, 19987, 19997, 22721, 22722.
- T6832 *Woodwardia virginica* (Blechnaceae); FU JI NI YA GOU JI JUE; Virginia Chain Fern. Isolated compounds: 22723, 22724, 22725.
- T6833 *Wrightia javanica* (Apocynaceae); ZHAO WA DAO DIAO BI; Java Wrightia\*. Isolated compounds: 22735, 22736.
- T6834 *Wrightia tomentosa* (Apocynaceae); YAN MU; Tomentose Wrightia. Used part: root or stem. TCM Effects: To resolve toxin and disperse swelling. TCM Indications: Snake bite. Isolated compounds: 11340, 22733.
- X**
- T6835 *Xanthium canadense* (Asteraceae); JIA NA DA CANG ER; Canadian Cocklebur\*. Isolated compounds: 9740, 11203.
- T6836 *Xanthium chasei* (Asteraceae); CAI SI CANG ER; Chase Cocklebur\*. Isolated compounds: 22780.
- T6837 *Xanthium chinense* (Asteraceae); ZHONG GUO CANG ER; Burweed. Isolated compounds: 22780.
- T6838 *Xanthium commune* (Asteraceae); PU TONG CANG ER; Common Cocklebur\*. Isolated compounds: 22757.
- T6839 *Xanthium occidentale* (Asteraceae); XI FANG CANG ER; Occidental Cocklebur\*. Isolated compounds: 22780.
- T6840 *Xanthium orientale* (Asteraceae); DONG FANG CANG ER; Oriental Cocklebur\*. Isolated compounds: 22757.
- T6841 *Xanthium pennsylvanicum* (Asteraceae); BIN XI FA NI YA CANG ER; Pennsylvanian Cocklebur\*. Isolated compounds: 22755.
- T6842 *Xanthium riparium* (Asteraceae); XIAO XI CANG ER; Ripply Cocklebur\*. Isolated compounds: 22755.
- T6843 *Xanthium sibiricum* [Syn. *Xanthium strumarium*] (Asteraceae); CANG ER; Siberian Cocklebur. Used part: stem-leaf. TCM Effects: To dispel wind, dissipate heat, eliminate damp, resolve toxin. TCM Indications: Allergic rhinitis, nervous headache, rheumatic arthritis, pain in limbs, sciatica, eczema, itchy skin, chronic sinus infections, otitis media, parotitis, common cold, head wind, dizziness, deep-source nasal congestion, red eyes, eye screen, wind-damp impediment pain, hypertonicity and numbness, wind *lai*, clove sore, scab and lichen, itchy skin, hemorrhoids, dysentery. Isolated compounds: 5413, 11590, 20369, 21552, 22755, 22757, 22780.
- T6844 *Xanthium* sp. (Asteraceae). Isolated compounds: 22755.  
*Xanthium strumarium* = *Xanthium sibiricum*
- T6845 *Xanthoceras sorbifolia* (Sapindaceae); WEN GUAN MU; Shinyleaf yellowhorn. Used part: stem or branch-leaf. TCM Effects: To dispel wind and eliminate damp, disperse swelling and relieve pain. TCM Indications: Wind-damp-heat impediment, pain in sinews and bones. Isolated compounds: 15170, 18317, 22758.
- T6846 *Xanthorhiza simplicissima* (Asteraceae); HUANG GEN SHU; Yellowroot. Isolated compounds: 15885, 16439.  
*Xanthoxylum americanum* = *Zanthoxylum americanum*
- T6847 *Xeranthemum cylindraceum* (Asteraceae); CHANG TONG HAN HUA; Cylinder Immortelle. Isolated compounds: 22784.
- T6848 *Xerocomus badius* (Boletaceae); HE RONG GAI NIU GAN JUN; Bay Bolete. Isolated compounds: 15717.
- T6849 *Xylaria* sp. Isolated compounds: 6267, 10207, 10505.
- T6850 *Xylopiya aromatica* (Annonaceae); FANG XIANG MU BAN SHU; Aromatic Xylopiya\*. Isolated compounds: 22816, 22817.
- T6851 *Xylopiya buxifolia* (Annonaceae); HUANG YANG YE MU BAN SHU; Boxleaf Xylopiya\*. Isolated compounds: 15797.
- T6852 *Xylopiya columbiana* (Annonaceae); GE LUN BI YA MU BAN SHU; Columbia Xylopiya\*. Isolated compounds: 1459, 1770, 13634, 13715, 15885, 21258.
- T6853 *Xylopiya discreta* (Annonaceae); XI SHU MU BAN SHU; Discrete Xylopiya\*. Isolated compounds: 22818.
- T6854 *Xylopiya parviflora* (Annonaceae); XIAO HUA MU BAN SHU; Smallflower Xylopiya\*. Isolated compounds: 4886, 5602, 6316, 14674, 14708, 22819.
- T6855 *Xylopiya vielana* (Annonaceae); MU BAN SHU; Common Xylopiya. Isolated compounds: 22469, 22470, 22471, 22472, 22473.
- Y**
- T6856 *Yatheca podophylla* (Cyatheaceae); BING YE SUO LUO. Isolated compounds: 6612, 10121, 19979.
- T6857 Yeast and other biological sources. Isolated compounds: 22255.

## Z

- T6858 *Zanthoxylum acanthopodium* (Rutaceae); CI HUA JIAO; Acanthoid Pricklyash\*. Used part: root or fruit. TCM Effects: To warm center and dissipate cold, kill worms and relieve pain. TCM Indications: Cold pain in stomach duct and abdomen, wind-cold-damp impediment, knocks and falls, abdominal pain due to worm accumulation. Isolated compounds: 7719, 17572, 19540, 19777, 20665.
- T6859 *Zanthoxylum acutifolium* (Rutaceae); JIAN YE HUA JIAO; Acute-leaf Pricklyash\*. Isolated compounds: 595, 597, 598.
- T6860 *Zanthoxylum ailanthoides* (Rutaceae); CHU YE HUA JIAO; Ailanthus-like Pricklyash. Used part: fruit. TCM Effects: To warm center, dry damp, kill worms, relieve pain. TCM Indications: Cold pain in heart and abdomen, cold rheum, diarrhea, cold dysentery, damp impediment, red and white vaginal discharge, toothache. Isolated compounds: 775, 776, 5445, 12571, 15631, 19618, 22781.
- T6861 *Zanthoxylum ailanthoides* (Rutaceae); CHU YE HUA JIAO GEN; Ailanthus-like Pricklyash Root. Used part: root. TCM Effects: To dispel wind and eliminate damp, quicken blood and dissipate stasis, disinhibit water and disperse edema. TCM Indications: Wind-damp impediment pain, abdominal pain and diarrhea, inhibited urination [=dysuria], bleeding due to external injury, knocks and falls, poisonous snake bites. Isolated compounds: 15631.
- T6862 *Zanthoxylum ailanthoides* (Rutaceae); CHU YE HUA JIAO PI; Ailanthus-like Pricklyash Bark. Used part: bark. TCM Effects: To dispel wind and eliminate damp, free network vessels and relieve pain, disinhibit urine. TCM Indications: Wind-cold-damp impediment, pain in lumbus and knees, knocks and falls, abdominal pain and diarrhea, inhibited urination, toothache, eczema, scab and lichen. Isolated compounds: 5445, 12571, 15631, 17572, 20002, 22781.
- T6863 *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*] (Rutaceae); MEI ZHOU HUA JIAO; Pricklyash. Isolated compounds: 941, 6484, 15631, 22777, 22781.
- T6864 *Zanthoxylum armatum* (Rutaceae); MAO ZHU YE HUA JIAO; Armate-leaf Pricklyash\*. Used part: fruit. TCM Effects: To dissipate cold, relieve pain, expel roundworm. TCM Indications: Stomach cold, stomachache due to roundworm, toothache, damp sore. Isolated compounds: 1737.
- T6865 *Zanthoxylum arnotianum* (Rutaceae); A NUO TI HUA JIAO; Arnotti Pricklyash\*. Isolated compounds: 1833, 5445, 13571.
- T6866 *Zanthoxylum avicennae* (Rutaceae); YING BU BO; Avicenna's Pricklyash. Used part: root. TCM Effects: To dispel wind and transform damp, disperse swelling and free network vessels. TCM Indications: Swelling pain in throat, yellow swelling, malaria, wind-damp bone pain, contusion from knocks and falls. Isolated compounds: 2035, 2037, 6454, 15631.
- T6867 *Zanthoxylum belizense* (Rutaceae); BO LI ZI HUA JIAO; Beliz Pricklyash\*. Isolated compounds: 3096, 3770.
- T6868 *Zanthoxylum brachyacanthum* (Rutaceae); DUAN CI HUA JIAO; Shortspine Pricklyash\*. Isolated compounds: 3057, 14209.
- T6869 *Zanthoxylum bungeanum* (Rutaceae); HUA JIAO; Bunge Pricklyash. Equivalent plant: *Zanthoxylum schinifolium*. Used part: pericarp. TCM Effects: To warm center and relieve pain, dispel damp and kill worms. TCM Indications: Spleen-stomach vacuity cold, cold pain in stomach duct and abdomen, vomiting, diarrhea, abdominal pain and vomiting due to roundworm. Isolated compounds: 2745, 3689, 4357, 7385, 14538, 15631, 19468, 20002, 20992, 20995, 22966, 22969.
- T6870 *Zanthoxylum bungeanum* (Rutaceae); HUA JIAO GEN; Bunge Pricklyash Root. Used part: root. TCM Effects: To kill worms. TCM Indications: Vacuity cold of kidney and bladder, blood strangury, beriberi, damp sore. Isolated compounds: 20002.
- T6871 *Zanthoxylum clava-hercules* (Rutaceae); MEI GUO CI JIAO; Hercules' Club. Isolated compounds: 9428, 15631, 17572.
- T6872 *Zanthoxylum cuspidatum* (Rutaceae); HUA JIAO LE; Cuspidate Pricklyash. Used part: stem-leaf or root. TCM Effects: To quicken blood, dissipate stasis, relieve pain. TCM Indications: Stasis stagnation pain in stomach duct and abdomen, knocks and falls. Isolated compounds: 9226, 11237, 12917, 15631, 15632.
- T6873 *Zanthoxylum decaryi* (Rutaceae); DE KA RUI HUA JIAO; Decary Pricklyash\*. Isolated compounds: 1833, 5445.
- T6874 *Zanthoxylum dimorphophyllum* var. *spinifolium* (Rutaceae); CI YI YE HUA JIAO; Spinyleaf Pricklyash. Used part: root. TCM Effects: To dispel wind and dissipate cold, dissipate stasis and settle pain, stanch bleeding and engender flesh. TCM Indications: Wind-cold-damp impediment, wind-cold cough, knocks and falls, static blood swelling pain, bleeding due to external injury. Isolated compounds: 6026.
- T6875 *Zanthoxylum dipetalum* (Rutaceae); ER DUN ZHUANG HUA JIAO; Twopetaline Pricklyash\*. Isolated compounds: 3096.
- T6876 *Zanthoxylum dissitum* (Rutaceae); DA YE HUA JIAO; Shellfish Pricklyash. Used part: fruit. TCM Effects: To dissipate cold and relieve pain, regulate menstruation. TCM Indications: Mounting *qi* (hernia), profuse menstruation. Isolated compounds: 15631.
- T6877 *Zanthoxylum dissitum* (Rutaceae); DA YE HUA JIAO GEN; Shellfish Pricklyash Root. Used part: root. TCM Effects: To dispel wind and dissipate cold, rectify *qi* and quicken blood. TCM Indications: Wind-cold-damp impediment, *qi* stagnation and pain in stomach duct, cold mounting with abdominal pain, toothache, knocks and falls. Isolated compounds: 15631.
- T6878 *Zanthoxylum echinocarpum* (Rutaceae); CI KE HUA JIAO; Spinyfruit Pricklyash. Used part: root, root cortex or stem-leaf. TCM Effects: To disperse food and assisting movement, move *qi* and relieve pain. TCM Indications: Spleen weakness and functional weakness, reduced food intake with abdominal distention, *qi* stagnation and pain in stomach duct. Isolated compounds: 15631.
- T6879 *Zanthoxylum elephantiasis* (Rutaceae); HOU PI HUA JIAO; Thickbark Pricklyash\*. Isolated compounds: 3070, 3096, 12571.
- T6880 *Zanthoxylum flavum* (Rutaceae); HUANG XIN HUA JIAO; Yellow-heart Pricklyash. Isolated compounds: 15631.
- T6881 *Zanthoxylum hamiltonianum* (Rutaceae); GAO SHAN HUA JIAO; Alpine Pricklyash. Isolated compounds: 2284.
- T6882 *Zanthoxylum integrifolium* (Rutaceae); QUAN YUAN YE HUA JIAO; Integrifolious Pricklyash\*. Isolated compounds: 147, 4648, 5347, 9742, 10236, 10237, 12498, 12499, 12500, 19298, 21057.
- T6883 *Zanthoxylum myriacanthum* (Rutaceae); DA YE CHOU HUA JIAO; Manyspiny Pricklyash\*. Used part: stem and branch-leaf. TCM Effects: To dispel wind-damp, resolve toxin and disperse swelling,



- stanch bleeding and relieve pain. TCM Indications: Wind-cold common cold, wind-damp impediment pain, fracture due to knocks and falls, bleeding due to external injury, burns and scalds, poisonous snake bite. Isolated compounds: 15631.
- T6884 *Zanthoxylum nitidum* (Rutaceae); RU DI JIN NIU; Shinyleaf Pricklyash. Used part: root or branchlet-leaf. TCM Effects: To dispel wind and free network vessels, disperse swelling and relieve pain. TCM Indications: Wind-damp bone pain, stomachache, toothache, throat impediment, scrofula, burns and scalds. Isolated compounds: 1833, 2523, 3499, 6454, 11093, 11237, 11423, 12917, 14819, 15631, 15632, 16443, 16454, 16477, 19540, 19777.
- T6885 *Zanthoxylum ovalifolium* (Rutaceae); TUO YUAN YE HUA JIAO; Ellipticleaf Pricklyash\*. Isolated compounds: 3096.
- T6886 *Zanthoxylum piperitum* (Rutaceae); HU JIAO HUA JIAO; Japanese Pricklyash. Isolated compounds: 1833, 7703, 13716, 19777, 22779, 23023, 23024, 23025, 23026, 23027, 23028.
- T6887 *Zanthoxylum planispinum* (Rutaceae); ZHU YE JIAO; Bambooleaf Pricklyash. Used part: fruit. TCM Effects: To dissipate cold, relieve pain, expel roundworm. TCM Indications: Stomach cold, stomachache due to roundworm, toothache, damp sore. Isolated compounds: 5445, 7703, 20002, 22771.
- T6888 *Zanthoxylum planispinum* (Rutaceae); ZHU YE JIAO GEN; Bambooleaf Pricklyash Root. Used part: root. TCM Effects: To dispel wind and quicken blood, dissipate cold and relieve pain. TCM Indications: Common cold with headache, cough, vomiting and diarrhea, pain in joints due to rheumatism, knocks and falls, toothache. Isolated compounds: 5445, 7703, 17504, 22771.
- T6889 *Zanthoxylum podocarpum* (Rutaceae); BING GUO HUA JIAO; Stalkedfruit Pricklyash. Used part: bark. TCM Effects: To dispel cold, settle pain, course wind, fortify stomach. TCM Indications: Wind-damp pain in sinew and bone, throat pain, summerheat stroke, knocks and falls, snake bite. Isolated compounds: 17572, 17587.
- T6890 *Zanthoxylum rhesta* (Rutaceae). Isolated compounds: 10117.
- T6891 *Zanthoxylum rubescens* (Rutaceae); HONG HUA JIAO; Red Pricklyash\*. Isolated compounds: 9818, 14444.
- T6892 *Zanthoxylum schinifolium* (Rutaceae); QING JIAO; Peppertree Pricklyash. Used part: pericarp. TCM Effects: See *Zanthoxylum bungeanum*. TCM Indications: See *Zanthoxylum bungeanum*. Isolated compounds: 147, 1186, 2010, 2309, 3926, 14112, 19467, 19468, 19470, 19540, 20002, 22195.
- T6893 *Zanthoxylum simulans* (Rutaceae); YE HUA JIAO GEN; Flatspine Pricklyash Root. Used part: root cortex. or stem cortex. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain, resolve toxin. TCM Indications: wind-cold-damp impediment, sinew and bone numbness, cold pain in stomach duct and abdomen, vomiting and diarrhea, toothache, skin sores, poisonous snake bites. Isolated compounds: 19904, 19905, 19906, 19907.
- T6894 *Zanthoxylum simulans* (Rutaceae); YE HUA JIAO PI; Flatspine Pricklyash Bark. Used part: root cortex or stem cortex. TCM Effects: To dispel wind and eliminate damp, dissipate cold and relieve pain, resolve toxin. TCM Indications: Wind-cold-damp impediment, sinew and bone numbness, cold pain in stomach duct and abdomen, vomiting and diarrhea, toothache, skin sores, poisonous snake bites. Isolated compounds: 9656, 16443, 18830.
- T6895 *Zanthoxylum simulans* (Rutaceae); YE HUA JIAO YE; Flatspine Pricklyash Leaf. Used part: leaf. TCM Effects: To dispel wind and dissipate cold, fortify stomach and expel worms, dispel damp and check diarrhea, quicken blood and free menstruation. TCM Indications: Knocks and falls, wind-damp pain, pain of blood stasis, amenorrhea, hemoptysis, blood ejection, pain wind in joints. Isolated compounds: 370, 2227, 12850, 14037, 19297, 19540, 22967, 22969.
- T6896 *Zanthoxylum* sp. (Rutaceae). Isolated compounds: 126, 136, 775, 776, 1737, 2034, 4348, 4349, 4967, 5549, 5858, 6040, 6261, 6262, 7063, 11286, 11423, 12611, 12612, 13801, 14086, 14121, 15335, 16423, 16978, 17411, 17413, 17417, 19469, 19471, 20658, 22965, 22968, 22970, 22972.
- T6897 *Zanthoxylum* spp. (Rutaceae). Isolated compounds: 3498.
- T6898 *Zanthoxylum tsihanimposa* (Rutaceae); QI HAN NING HUA JIAO; Tsihanim Pricklyash\*. Isolated compounds: 7703.
- T6899 *Zanthoxylum veneficium* (Rutaceae); DU HUA JIAO; Venenous Pricklyash\*. Isolated compounds: 3057, 14209.
- T6900 *Zea mays* (Poaceae); YU MI FU; Maize Bran. Isolated compounds: 4977.
- T6901 *Zea mays* (Poaceae); YU MI XU; Maize Style. Used part: style and stigma. TCM Effects: To disinhibit urine and disperse edema, clear liver and disinhibit gallbladder. TCM Indications: Edema, dribbling urination, jaundice, cholecystitis, gallstones, hypertension, diabetes mellitus, galactostasis. Isolated compounds: 11083, 11084, 11085.
- T6902 *Zea mays* (Poaceae); YU SHU SHU; Maize. Used part: seed. TCM Effects: To regulate center and increase appetite, boost lung and quiet heart, disinhibit urine. TCM Indications: Inappetence, inhibited urination, edema, urethral stone. Isolated compounds: 933, 3208, 3210, 3215, 3605, 3606, 4293, 8078, 10609, 18261, 19983, 20369, 20434, 22058, 22975, 22976.
- T6903 *Zephyranthes candida* (Amaryllidaceae); GAN FENG CAO; Autumn Zephyrlily. Used part: herb. TCM Effects: To calm liver and extinguish wind. TCM Indications: Infant fright wind, epilepsy, tetanus. Isolated compounds: 9187, 13241, 15496, 17850, 20891.
- Zephyranthes carinata* = *Zephyranthes grandiflora*
- T6904 *Zephyranthes grandiflora* [Syn. *Zephyranthes carinata*] (Amaryllidaceae); FENG YU HUA; Rosepink Zephyrlily. Used part: whole herb. TCM Effects: To cool blood and stanch bleeding, resolve toxin and disperse swelling. TCM Indications: Blood ejection, hematochezia, flooding and spotting, red swollen due to knocks and falls, red swollen sore and welling abscess, poisonous snake bite. Isolated compounds: 3198, 16601.
- T6905 *Zexmenia brevifolia* DUAN YE PENG QI JU. Isolated compounds: 22987.
- T6906 *Zexmenia bupthalmiflora* NIU YAN PENG QI JU. Isolated compounds: 18229.
- T6907 *Zingiber aromaticum* (Zingiberaceae); FANG XIANG JIANG; Aromatic Ginger. Isolated compounds: 4680, 7105, 7106, 8395, 8396, 8397, 9664, 9668, 12024, 12025, 12026, 12035, 12036, 12037, 12044, 12070, 12082, 12099, 19846, 19847, 19983, 19987, 21600, 22984, 22985.
- T6908 *Zingiber cassumunar* (Zingiberaceae); YE JIANG; Cassumuna

- Ginger\*. Isolated compounds: 6277, 6278, 6279, 6280, 6282, 10438, 21924.
- T6909 *Zingiber officinale* (Zingiberaceae); GAN JIANG; Common Ginger Dried Rhizome. Used part: dried rhizome. TCM Effects: To warm center and dissipate cold, return yang and free vessels, warm lung and transform rheum. TCM Indications: Cold pain in stomach duct and abdomen, vomiting, diarrhea, yang-collapse reversal flow, cold rheum asthma cough, cold-damp impediment pain. Isolated compounds: 2412, 3045, 3689, 3760, 3761, 3762, 4390, 4550, 4833, 5302, 7162, 7728, 8312, 8386, 8387, 8388, 8389, 8390, 8391, 8394, 8395, 8396, 8397, 8398, 9409, 9498, 10178, 10179, 10189, 11438, 12843, 13802, 15681, 15685, 17055, 19787, 19846, 23003, 23004.
- T6910 *Zingiber officinale* (Zingiberaceae); SHENG JIANG; Fresh Common Ginger. Used part: fresh rhizome. TCM Effects: To dissipate cold and resolve exterior, downbear counterflow and check vomiting, relieve cough and transform phlegm. TCM Indications: Wind-cold common cold, fever and aversion to wind, headache and nasal congestion, vomiting, phlegm-rheum cough asthma, distention fullness, diarrhea. Isolated compounds: 135, 210, 336, 399, 675, 928, 2306, 2412, 2550, 2787, 3045, 3048, 3150, 3151, 3194, 3242, 3351, 3689, 3760, 3761, 3762, 3768, 3769, 4029, 4305, 4390, 4550, 4921, 4922, 5288, 5302, 5503, 5906, 6358, 6741, 6742, 6746, 7119, 7162, 7393, 7418, 7454, 7475, 7514, 7523, 7729, 7730, 7734, 7750, 7752, 8082, 8312, 8313, 8382, 8383, 8384, 8385, 8386, 8389, 8390, 8391, 8394, 8395, 8399, 8400, 8849, 9408, 9409, 10011, 10183, 10184, 10436, 10448, 10452, 11259, 11260, 11438, 11752, 12843, 12849, 13742, 13743, 13802, 14111, 14127, 14463, 14464, 14475, 14529, 14601, 15498, 15499, 15500, 15683, 15686, 15687, 15926, 15973, 15974, 16650, 16926, 17056, 17376, 17425, 17916, 17930, 19121, 19307, 19846, 19848, 19849, 19850, 19851, 20990, 20992, 20995, 20998, 21349, 21598, 21975, 23003, 23004, 23022.
- T6911 *Zingiber zerumbet* (Zingiberaceae); HONG QIU JIANG; Zerumbet Ginger. Isolated compounds: 9671, 9672, 10834, 22984, 22985, 22986.
- T6912 *Zinnia elegans* (Asteraceae); BAI RI CAO; Youth-and-old-age. Used part: whole herb. TCM Effects: To clear heat, disinhibit damp, resolve toxin. TCM Indications: Damp-heat dysentery, strangury syndrome, mammary welling abscess, swollen boil. Isolated compounds: 1124, 1492.
- T6913 *Zizia aptera* (Apiaceae); JI JI QIN; Heart-leaved Alexanders. Isolated compounds: 1536, 18165.
- T6914 *Ziziphus amphibia* (Rhamnaceae); SHUI LU ZAO; Amphibian Jujube\*. Isolated compounds: 1080.
- T6915 *Ziziphus cambodiana* (Rhamnaceae); JIAN PU ZHAI ZAO; Cambodia Jujube\*. Isolated compounds: 2334, 10383.
- T6916 *Ziziphus jujuba* (Rhamnaceae); DA ZAO; Chinese Date. Equivalent plant: *Ziziphus jujuba* var. *inermis*. Used part: ripe fruit. TCM Effects: To supplement center and boost qi, nourish blood and quiet spirit. TCM Indications: Reduced food intake due to spleen vacuity, lack of strength and sloppy stool, visceral agitation. Isolated compounds: 984, 1857, 2303, 2331, 2334, 2338, 3308, 3318, 3932, 4147, 4148, 4169, 4170, 4187, 6059, 7787, 9486, 11904, 11905, 11906, 11909, 11911, 11912, 12891, 13419, 15203, 15528, 16050, 16402, 17983, 18834, 19087, 19921, 20172, 20280, 20322, 20369, 20515, 20715, 22270, 22554, 22615, 23010, 23013, 23015, 23016, 23017, 23018.
- T6917 *Ziziphus jujuba* var. *inermis* (Rhamnaceae); WU CI ZAO; Spineless Common Jujube. Used part: ripe fruit. TCM Effects: See *Ziziphus jujuba*. TCM Indications: See *Ziziphus jujuba*. Isolated compounds: 4596, 18834, 18918, 23011, 23012, 23019, 23020.
- T6918 *Ziziphus jujuba* var. *spinosa* (Rhamnaceae); SUAN ZAO; Spine Date. Used part: seed. TCM Effects: To quiet heart and spirit, nourish liver, constrain sweat. TCM Indications: Vacuity vexation and egeris, fright palpitation and fearful throbbing, spontaneous sweating and night sweating due to vacuity. Isolated compounds: 16050, 22270.
- T6919 *Ziziphus jujuba* var. *spinosa* (Rhamnaceae); SUAN ZAO REN; Spine Date Seed. Used part: seed. TCM Effects: To supplement liver, quiet heart, constrain sweat, engender liquid. TCM Indications: Neurasthenia, vacuity vexation and insomnia, fright palpitation, arrhythmia, frequent dreaming, vacuity and profuse sweating, fluid damage and thirst. Isolated compounds: 443, 984, 2334, 2838, 3345, 4187, 4680, 6662, 7768, 7787, 11907, 11909, 11910, 11911, 11913, 11914, 11915, 11989, 13258, 14148, 19289, 19290, 19291, 19292, 19293, 19294, 19921, 20172, 20515, 23007, 23015.
- T6920 *Ziziphus mauritiana* (Rhamnaceae); MIAN ZAO; Indian Jujube. Used part: bark. TCM Effects: To eliminate inflammation and engender flesh. TCM Indications: Burns and scalds, throat pain, diarrhea, dysentery. Isolated compounds: 1081, 7937, 13613, 13614.
- T6921 *Ziziphus abyssinica* (Rhamnaceae); AI SAI E BI YA ZAO; Ethiopian Jujube\*. Isolated compounds: 15020.
- T6922 *Ziziphus mucronata* (Rhamnaceae); JIAN YE ZAO; Mucronated Jujube\*. Isolated compounds: 15020.
- T6923 *Ziziphus oenoplia* (Rhamnaceae); XIAO GUO ZAO; Littlefruit Jujube. Isolated compounds: 23014.
- T6924 *Ziziphus xylopyrus* (Rhamnaceae). Isolated compounds: 11313.
- T6925 *Zostera marina* (Potamogetonaceae); HAI DAI; Ellgrass. Used part: whole herb. TCM Effects: To clear heat and resolve phlegm, soften hardness and dissipate binds, disinhibit water. TCM Indications: Goiter and tuberculosis, mounting-conglomeration, edema, beriberi. Isolated compounds: 1521, 8078, 14818.
- T6926 *Zygodphyllum atriplicoides*. Isolated compounds: 1997, 1998, 8732.

(Note: For plant T1471, T4056, T4057 and T5757, there is no isolated compound data.)