



Technical Report

ISO/TR 23975

Traditional Chinese medicine — Priority list of single herbal medicines for developing standards

*Médecine traditionnelle chinoise — Liste prioritaire de
médicaments à base de plantes isolées pour l'élaboration de normes*

**Second edition
2025-01**

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 249, *Traditional Chinese medicine*.

This second edition cancels and replaces the first edition (ISO/TR 23975:2019) which has been technically revised.

The main changes are as follows:

- in 5.1, the international trading value of herbal medicines was replaced by the international trade volume as a high priority principle;
- in 5.4, a new principle of high priority was added;
- in 6.1, the data of international trade volume for single herbal medicines was updated; and Table 1 was sorted by international trade volume;
- in 6.2, the data of single herbal medicines recorded in pharmacopoeias was updated; and Table 2 was sorted by occurrence count;
- in 6.4, the data of the use frequency for single herbal medicines in formula recorded in Pharmacopoeias and national formula was added; and Table 4 was sorted by occurrence count;
- in 6.5, the data of international standard for single herbal medicines that have been published or are under development was updated, and listed in Table 5;
- in 6.6, single herbal medicines that are listed as endangered species in CITES were updated;
- in 7.1, the weight coefficient of criteria for developing single herb standards based on recent expert consultation was updated, and listed in Table 7;
- in 7.2, the range of priority rank for developing single herb standards based on recent expert consultation was updated, and listed in Table 8;
- in Clause 8, Table 9 was updated;

— in [Annex A, Table A.1](#) was updated.

In addition to text written in the official ISO languages (English, French, Russian), this document gives text in Chinese. This text is published under the responsibility of the Member Body for China (SAC) and is given for information only. Only the text given in the official languages can be considered as ISO text.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

Being a significant part of traditional medicine systems and general health services, traditional Chinese medicine is estimated to be used in over 180 countries and regions around the world. This is reflected by the statistics cited from the WHO report that there are 4 billion people in the world using herbal medicines, accounting for 80 % of the total world population. Asia, North America and Europe are regarded as the major markets for herbal medicines. Moreover, incomplete Chinese customs statistics show that the import and export of herbal medicine products in China was worth over 1,61 billion USD in 2023. Therefore, it is very important to develop globally harmonized standards in order to ensure the safety of consumers. In particular, those herbal medicines which have been reported to cause adverse drug reactions (ADR) are drawing much attention from national health administrations.

There are a great number of single herbs on the market; for instance, 618 kinds of herbs have been included in the *Pharmacopoeia of the People's Republic of China*. Currently, organizations, regions and countries including ISO, WHO, the European Union, China, Japan, Korea, the USA, the UK and Thailand are making valuable contributions by developing standards for single herbs. This document presents a list of single herbal medicines in order of priority for the purposes of developing standards on single herbs in a scientific and orderly manner. This document can be used as a reference by any organization wishing to develop standards on single herbal medicines.

The following factors have been considered in setting the priorities:

- the trade volume of each single herbal medicine in the global market;
- whether the herbal medicine is recorded by the *Pharmacopoeia of the People's Republic of China*, the *European Pharmacopoeia*, the *Japanese Pharmacopoeia*, the *Japanese standards for non-Pharmacopoeial crude drugs*, the *Korean Pharmacopoeia*, the *Korean Herbal Pharmacopoeia*, the *Thai Herbal Pharmacopoeia*, *Hong Kong Chinese Materia Medica Standards* or the *United States Pharmacopoeia*;
- whether there are potential risks from its use;
- whether the herbal medicine is used in formula by the *Pharmacopoeia of the People's Republic of China*, the *Japanese Pharmacopoeia*, the *Korean Pharmacopoeia*, or other national formula;
- whether the herbal medicine is listed in the *Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)*;
- opinions from experts.

Traditional Chinese medicine — Priority list of single herbal medicines for developing standards

1 Scope

This document provides a reference of single herbal medicines in order of their priority in the development of international standards.

This document also provides a reference of the principles and the methodology for the priority evaluation of single herbal medicines.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Document structure

4.1 The principles for determining the priority of single herbal medicines are established in [Clause 5](#).

4.2 Single herbal medicines and the data of evaluation indexes are listed in [Clause 6](#).

4.3 The methods of data statistics, including the weight coefficient of evaluation indexes and the range of priority rank, are determined in [Clause 7](#).

4.4 The priority list of single herbal medicines is established in [Clause 8](#) based on the evaluation indexes data in [Clause 6](#) and the statistical methods in [Clause 7](#). The non-priority list of single herbal medicines is provided in [Annex A](#).

5 Principles

5.1 Herbal medicines which have a large international trade volume are listed as high priority in [Table 1](#).

5.2 Common herbal medicines recorded in the *Pharmacopoeia of the People's Republic of China*, the *European Pharmacopoeia*, the *Japanese Pharmacopoeia*, the *Japanese standards for non-Pharmacopoeial crude drugs*, the *Korean Pharmacopoeia*, the *Korean Herbal Pharmacopoeia*, the *Thai Herbal Pharmacopoeia*, *Hong Kong Chinese Materia Medica Standards*, and the *United States Pharmacopoeia* are listed as high priority in [Table 2](#).

5.3 Herbal medicines that have safety concerns, such as those widely reported to cause adverse drug reactions (ADR), are listed as high priority in [Table 3](#).

5.4 Herbal medicines which have a high frequency of use in formula recorded in the *Pharmacopoeia of the People's Republic of China*, the *Japanese Pharmacopoeia*, the *Korean Pharmacopoeia*, and other national formula are listed as high priority in [Table 4](#).

5.5 Single herbal medicines for which there are existing ISO standards are listed as high priority in [Table 5](#).

5.6 Herbal medicines which are included in CITES are listed for reference in [Table 6](#).

6 Evaluation indexes

6.1 International trade

[Table 1](#) provides information on the 100 single herbal medicines which had the largest international trade volume in China and Japan from 2017 to 2021 (sorted by international trade volume).

Table 1 — The top 100 single herbal medicines which had the largest international trade volume in China and Japan from 2017 to 2021

No.	Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	International trade volume (kg)
1	1	<i>Dimorcarpus longan</i> arill	longan arillus	龙眼肉	Longyanrou	longan aril	524 270 778
2	2	<i>Glycyrrhiza uralensis</i> root and rhizome/ <i>Glycyrrhiza inflata</i> root and rhizome/ <i>Glycyrrhiza glabra</i> root and rhizome	glycyrrhizae radix et rhizoma	甘草	Gancao	licorice root	78 028 000
3	3	<i>Ziziphus jujuba</i> fruit	jujubae fructus	大枣	Dazao	Chinese date	77 762 954
4	4	<i>Lycium barbarum</i> fruit	lycii fructus	枸杞子	Gouqizi	barbary wolfberry fruit	61 256 785
5	5	<i>Curcuma longa</i> rhizome	curcumae longae rhizoma	姜黄	Jianghuang	turmeric	39 770 586
6	6	<i>Poria cocos</i> sclerotium	poria	茯苓	Fuling	Indian bread	32 821 447
7	7	<i>Rehmannia glutinosa</i> root	rehmanniae radix	地黄	Dihuang	rehmannia root	24 405 600
8	8	<i>Astragalus membranaceus</i> var. <i>mongholicus</i> root/ <i>Astragalus membranaceus</i> root	astragli radix	黄芪	Huangqi	milkvetch root	24 056 566
9	9	<i>Paeonia lactiflora</i> root	paeoniae radix alba	白芍	Baishao	white peony root	23 660 308
10	10	<i>Angelica sinensis</i> root	angelicae sinensis radix	当归	Danggui	Chinese angelica	22 763 112
11	11	<i>Nelumbo nucifera</i> seed	nelumbinis semen	莲子	Lianzi	lotus seed	22 429 217
12	12	<i>Prunus armeniaca</i> var. <i>ansu</i> seed/ <i>Prunus sibirica</i> seed/ <i>Prunus mandshurica</i> seed/ <i>Prunus armeniaca</i> seed	armeniacaе semen amarum	苦杏仁	Kuxingren	bitter apricot seed	21 272 374
13	13	<i>Ligusticum chuanxiong</i> rhizome	chuanxiong rhizoma	川芎	Chuanxiong	Szechwan lovage rhizome	17 669 422
14	14	<i>Atractylodes macrocephala</i> rhizome	atractylodis macrocephalae rhizoma	白术	Baizhu	largehead atractylodes rhizome	16 158 735
15	15	<i>Chrysanthemum morifolium</i> capitulum/ <i>Chrysanthemum indicum</i> capitulum	chrysanthemi flos/ chrysanthemi indicis flos	菊花/野菊花	Juhua/Yejuhua	chrysanthemum flower/wild chrysanthemum flower	14 155 600
16	16	<i>Pinellia ternata</i> tuber	pinelliae rhizoma	半夏	Banxia	pinellia tuber	13 743 242

Note: Data from China Customs and Japanese source.

Table 1 (continued)

No.	Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	International trade volume (kg)
17	17	<i>Scutellaria baicalensis</i> root	scutellariae radix	黄芩	Huangqin	baical skullcap root	11 334 012
18	18	processed <i>Rehmannia glutinosa</i> root	rehmanniae radix praeparata	熟地黄	Shudihuang	prepared rehmannia root	11 087 029
19	19	<i>Rheum palmatum</i> root and rhizome/ <i>Rheum tanguticum</i> root and rhizome/ <i>Rheum officinale</i> root and rhizome	rhei radix et rhizoma	大黄	Dahuang	rhubarb	10 829 944
20	20	<i>Codonopsis pilosula</i> root/ <i>Codonopsis pilosula</i> var. <i>modesta</i> root/ <i>Codonopsis tangshen</i> root	codonopsis radix	党参	Dangshen	tangshen	10 768 612
21	21	<i>Paeonia lactiflora</i> root/ <i>Paeonia veitchii</i> root	paeoniae radix rubra	赤芍	Chishao	red peony root	10 308 069
22	22	<i>Glehnia littoralis</i> root	glehniae radix	北沙参	Beishashen	coastal glehnia root	9 467 180
23	23	<i>Panax ginseng</i> root and rhizome	ginseng radix et rhizoma	人参	Renshen	ginseng	9 272 878
24	24	<i>Panax quinquefolium</i> root	panacis quinquefolii radix	西洋参	Xiyangshen	American ginseng	9 062 388
25	25	<i>Eucommia ulmoides</i> bark	eucommiae cortex	杜仲	Duzhong	eucommia bark	7 918 769
26	26	<i>Atractylodes lancea</i> rhizome/ <i>Atractylodes chinensis</i> rhizome	atractylodis rhizoma	苍术	Cangzhu	atractylodes rhizome	7 141 995
27	27	<i>Ephedra sinica</i> stem/ <i>Ephedra intermedia</i> stem/ <i>Ephedra equisetina</i> stem	ephedrae herba	麻黄	Mahuang	ephedra	6 757 413
28	28	<i>Cinnamomum cassia</i> bark	cinnamomi cortex	肉桂	Rougui	cassia bark	6 383 391
29	29	<i>Sinomenium acutum</i> stem/ <i>Sinomenium acutum</i> var. <i>cinereum</i> stem	sinomenii caulis	青风藤	Qing-fengteng	orientvine stem	6 373 600
30	30	<i>Boswellia carterii</i> resin/ <i>Boswellia bhawdajiana</i> resin	olibanum	乳香	Ruxiang	olibanum	5 788 700
31	31,5	<i>Commiphora molmol</i> resin/ <i>Commiphora myrrha</i> resin	myrrha	没药	Moyao	myrrh	5 788 305
32	31,5	<i>Daemonorops draco</i> fruit resin	draconis sanguis	血竭	Xuejie	dragon's blood	5 788 305
33	33	<i>Bupleurum chinense</i> root/ <i>Bupleurum scorzonifolium</i> root	bupleuri radix	柴胡	Chaihu	Chinese thorowax root	5 548 577
34	34	<i>Pueraria lobata</i> root	puerariae lobatae radix	葛根	Gegen	kudzu vine root	5 049 986
35	35	<i>Alisma orientale</i> tuber	alismatis rhizoma	泽泻	Zexie	oriental waterplantain rhizome	5 033 389
36	36	<i>Zanthoxylum nitidum</i> root	zanthoxyli radix	两面针	Liangmian-zhen	shinyleaf pricklyash root	4 407 279
37	37	<i>Paeonia suffruticosa</i> root bark	moutan cortex	牡丹皮	Mudanpi	tree peony bark	4 162 616
38	38	<i>Citrus reticulata</i> pericarp	citri reticulatae pericarpium	陈皮	Chenpi	dried tangerine peel	4 099 357
39	39	<i>Ophiopogon japonicus</i> root tuber/ <i>Liriope muscari</i> root/ <i>Liriope spicata</i> var. <i>prolifera</i> root	ophiopogonis radix/ liriope radix	麦冬/山麦冬	Maidong/ Shanmaidong	dwarf lilyturf tuber/ liriope root tuber	3 827 440
40	40	<i>Platycodon grandiflorum</i> root	platycodonis radix	桔梗	Jiegeng	platycodon root	3 618 978
41	41	<i>Gardenia jasminoides</i> fruit	gardeniae fructus	梔子	Zhizi	cape jasmine fruit	3 500 354

Note: Data from China Customs and Japanese source.

Table 1 (continued)

No.	Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	International trade volume (kg)
42	42	<i>Magnolia officinalis</i> bark/ <i>Magnolia officinalis</i> var. <i>biloba</i> bark	magnoliae officinalis cortex	厚朴	Houpo	officinal magnolia bark	3 442 692
43	43	<i>Polyporus umbellatus</i> scler- otium	polyporus	猪苓	Zhuling	chuling	3 347 709
44	44	<i>Phellodendron amurense</i> bark/ <i>Phellodendron chinensis</i> bark	phellodendri chinen- sis cortex/phelloden- dri amurensis cortex	黄柏/关黄柏	Huangbo/ Guanhuang- bo	Chinese cork- tree/amur cork- tree	3 297 263
45	45	<i>Saposhnikovia divaricata</i> root	saposhnikoviae radix	防风	Fangfeng	divaricate saposhnikovia root	3 137 656
46	46	<i>Cornus officinalis</i> sarcocarp	corni fructus	山茱萸	Shanzhuyu	asiatic cornelian cherry fruit	3 097 242
47	47	<i>Perilla frutescens</i> leaf	perillae folium	紫苏叶	Zisuye	perilla leaf	3 072 478
48	48	<i>Asarum heterotropoides</i> var. <i>mandshuricum</i> root and rhi- zome/ <i>Asarum sieboldii</i> var. <i>seoulense</i> root and rhizome/ <i>Asarum sieboldii</i> root and rhizome	asari radix et rhi- zoma	细辛	Xixin	Manchurian wildginger root	3 030 735
49	49	<i>Acanthopanax senticosus</i> root and rhizome or stem	acanthopanax senti- cosi radix et rhizoma seu caulis	刺五加	Ciwujia	manyprickle acanthopanax	3 012 609
50	50	<i>Mentha haplocalyx</i> herb	menthae haplocalycis herb	薄荷	Bohe	peppermint	2 991 857
51	51	processed <i>Aconitum car- michaelii</i> daughter root	aconiti lateralis radix praeparata	附子	Fuzi	prepared com- mon monkshood daughter root	2 972 724
52	52	<i>Citrus aurantium</i> fruit/ <i>Citrus sinensis</i> fruit	aurantii fructus immaturus	枳实	Zhishi	immature orange fruit	2 921 872
53	53	<i>Schizonepeta tenuifolia</i> herb	schizonepetae herba	荆芥	Jingjie	fineleaf schizo- nepeta herb	2 915 433
54	54	<i>Schisandra chinensis</i> fruit/ <i>Schisandra sphenanthera</i> fruit	schisandrae chinen- sis fructus/schisan- drae sphenantherae fructus	五味子/南五 味子	Wuweizi/ Nanwuweizi	Chinese magnoli- avine fruit/south- ern magnoliavine fruit	2 891 974
55	55	<i>Forsythia suspensa</i> fruit	forsythiae fructus	连翘	Lianqiao	weeping forsyth- ia capsule	2 887 487
56	56	<i>Plantago asiatica</i> seed/ <i>Plan- tago depressa</i> seed	plantaginis semen	车前子	Cheqianzi	plantain seed	2 837 129
57	57	<i>Ziziphus jujuba</i> var. <i>spinosa</i> seed	ziziphi spinosae semen	酸枣仁	Suanzaoren	spine date seed	2 788 106
58	58	<i>Achyranthes bidentata</i> root/ <i>Cyathula officinalis</i> root	achyranthis bident- atae radix/cyathulae radix	牛膝/川牛膝	Niuxi/ Chuanniuxi	twotoothed achyranthes root/medicinal cyathula root	2 779 128
59	59	<i>Erodium stepha-nianum</i> herb/ <i>Geranium wilfordii</i> herb/ <i>Geranium carolinianum</i> herb	erodii herba/geranii herba	老鹳草	Laohecao	common heron's bill herb/wilford granesbill herb	2 741 189
60	60	<i>Anemarrhena asphodeloides</i> rhizome	anemarrhenae rhizoma	知母	Zhimu	common anemar- rhena rhizome	2 699 586
61	61	<i>Epimedium brevicornu</i> leaf/ <i>Epimedium sagittatum</i> leaf/ <i>Epimedium pubescens</i> leaf/ <i>Epimedium koreanum</i> leaf	epimedii folium	淫羊藿	Yinyanghuo	epimedium leaf	2 646 248
62	62	<i>Akebia quinata</i> stem/ <i>Akebia trifoliata</i> stem/ <i>Akebia trifo- liata</i> var. <i>australis</i> stem	akebiae caulis	木通	Mutong	akebia stem	2 613 995

Note: Data from China Customs and Japanese source.

Table 1 (continued)

No.	Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	International trade volume (kg)
63	63	<i>Sophora tonkinensis</i> root and rhizome	sophorae tonkinensis radix et rhizoma	山豆根	Shandougen	Vietnamese sophora root	2 611 657
64	64	<i>Cimicifuga heracleifolia</i> rhizome/ <i>Cimicifuga dahurica</i> rhizome/ <i>Cimicifuga foetida</i> rhizome	cimicifugae rhizoma	升麻	Shengma	largetrifolious bugbane rhizome	2 603 366
65	65	<i>Corydalis yanhusuo</i> tuber	corydalis rhizoma	延胡索	Yanhusuo	yanhusuo	2 588 529
66	66	<i>Polygala tenuifolia</i> root/ <i>Polygala sibirica</i> root	polygalae radix	远志	Yuanzhi	thinleaf milkwort root	2 580 532
67	67	<i>Euodia rutaecarpa</i> fruit/ <i>Euodia rutaecarpa</i> var. <i>officinalis</i> fruit/ <i>Euodia rutaecarpa</i> var. <i>bodinieri</i> fruit	euodiae fructus	吴茱萸	Wuzhuyu	medicinal euodia fruit	2 571 413
68	68	<i>Magnolia biondii</i> flower bud/ <i>Magnolia denudata</i> flower bud/ <i>Magnolia sprengeri</i> flower bud	magnoliae flos	辛夷	Xinyi	biond magnolia flower	2 565 442
69	69	<i>Cyperus rotundus</i> rhizome	cyperi rhizoma	香附	Xiangfu	nutgrass galin-gale rhizome	2 560 798
70	70	<i>Hyoscyamus niger</i> seed	hyoscyami semen	天仙子	Tianxianzi	henbane seed	2 513 513
71	71	<i>Angelica dahurica</i> root/ <i>Angelica dahurica</i> var. <i>formosana</i> root	angelicae dahuricae radix	白芷	Baizhi	dahurian angelica root	2 503 324
72	72	<i>Angelica pubescens</i> f. <i>biser-rata</i> root	angelicae pubescentis radix	独活	Duhuo	doubleteeth pubescent angelica root	2 490 583
73	73	<i>Morus alba</i> bark	mori cortex	桑白皮	Sangbaipi	mulberry root bark	2 483 217
74	74	<i>Amomum villosum</i> fruit/ <i>Amomum villosum</i> var. <i>xanthioides</i> fruit/ <i>Amomum longgigulare</i> fruit	amomi fructus	砂仁	Sharen	villous amomum fruit	2 478 866
75	75	<i>Carthamus tinctorius</i> flower	carthami flos	红花	Honghua	safflower	2 476 402
76	76	<i>Arctium lappa</i> fruit	arctii fructus	牛蒡子	Niubangzi	great burdock achene	2 463 394
77	77	<i>Asparagus cochinchinensis</i> root tuber	asparagi radix	天冬	Tiandong	cochinchinese asparagus root	2 448 019
78	78	<i>Aucklandia lappa</i> root/ <i>Inula helenium</i> root/ <i>Vladimiria souliei</i> root/ <i>Vladimiria souliei</i> var. <i>cinerea</i> root	aucklandiae radix/inulae radix/vladimiriae radix	木香/土木香/川木香	Muxiang/Tumuxiang/Chuang-muxiang	common aucklandia root/inula root/common vladimiria root	2 446 008
79	79	<i>Notopterygium incisum</i> rhizome and root/ <i>Notopterygium franchetii</i> rhizome and root	notopterygii rhizoma et radix	羌活	Qianghuo	incised notopterygium rhizome or root	2 445 909
80	80	<i>Clematis chinensis</i> root and rhizome/ <i>Clematis manshurica</i> root and rhizome/ <i>Clematis hexapetala</i> root and rhizome	clematidis radix et rhizoma	威灵仙	Weilingxian	Chinese clematis root	2 439 428
81	81	<i>Cassia obtusifolia</i> seed/ <i>Cassia tora</i> seed	cassiae semen	决明子	Juemingzi	cassia seed	2 438 158
82	82	<i>Artemisia argyi</i> leaf	artemisiae argyi folium	艾叶	Aiye	argy mormwoot leaf	2 437 252
83	83	<i>Polygonatum kingianum</i> rhizome/ <i>Polygonatum sibiricum</i> rhizome/ <i>Polygonatum cyrtonema</i> rhizome	polygonati rhizoma	黄精	Huangjing	solomonseal rhizome	2 437 031
84	84	<i>Eribotrya japonica</i> leaf	eribotryae folium	枇杷叶	Pipaye	loquat leaf	2 431 872

Note: Data from China Customs and Japanese source.

Table 1 (continued)

No.	Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	International trade volume (kg)
85	85	<i>Salvia miltiorrhiza</i> root and rhizome	salviae miltiorrhizae radix et rhizoma	丹参	Danshen	danshen root	2 428 743
86	86	<i>Lycium chinense</i> root bark/ <i>Lycium barbarum</i> root bark	lycii cortex	地骨皮	Digupi	Chinese wolfberry root-bark	2 425 474
87	87	<i>Leonurus japonicus</i> herb	leonuri herba	益母草	Yimucao	motherwort herb	2 418 760
88	88	<i>Alpinia officinarum</i> rhizome	alpiniae officinarum rhizoma	高良姜	Gaoliang-jiang	lesser galangal rhizome	2 415 958
89	89	<i>Cistanche deserticola</i> fleshy stem/ <i>Cistanche tubulosa</i> fleshy stem	cistanches herba	肉苁蓉	Rou-congrong	desertliving cistanche	2 410 311
90	90	<i>Polygonum multiflorum</i> root tuber	polygoni multiflori radix	何首乌	Heshouwu	fleeceflower root	2 410 167
91	91	<i>Areca catechu</i> seed	arecae semen	槟榔	Binglang	areca seed	2 408 522
92	92	<i>Tribulus terrestris</i> fruit	tribuli fructus	蒺藜	Jili	puncturevine caltrop fruit	2 408 444
93	93	<i>Plantago asiatica</i> herb/ <i>Plantago depressa</i> herb	plantaginis herba	车前草	Cheqiancao	plantain herb	2 397 533
94	94	<i>Ligustrum lucidum</i> fruit	ligustri lucidi fructus	女贞子	Nüzhenzi	glossy privet fruit	2 396 274
95	95	<i>Crataegus pinnatifida</i> var. <i>major</i> fruit/ <i>Crataegus pinnatifida</i> fruit	crataegi fructus	山楂	Shanzha	hawthorn fruit	2 391 949
96	96	<i>Aloe barbadensis</i> juice/ <i>Aloe ferox</i> juice	aloe	芦荟	Luhui	aloes	2 390 736
97	97	<i>Curcuma phaeocaulis</i> rhizome/ <i>Curcuma kwangsiensis</i> rhizome/ <i>Curcuma wenyujin</i> rhizome	curcumae rhizoma	姜黄	Ezhu	zedoray/zedoary rhizome	2 389 146
98	98	<i>Peucedanum praeruptorum</i> root	peucedani radix	前胡	Qianhu	hogfennel root	2 385 752
99	99	<i>Morinda officinalis</i> root	morindae officinalis radix	巴戟天	Bajitian	morinda root	2 383 111
100	100	<i>Areca catechu</i> pericarp	arecae pericarpium	大腹皮	Dafupi	areca peel	2 380 813

Note: Data from China Customs and Japanese source.

6.2 Single herbal medicines recorded in pharmacopoeias

In total there are 326 kinds of single herbal medicines recorded by at least twice among the *Pharmacopoeia of the People's Republic of China*, the *European Pharmacopoeia*, the *Japanese Pharmacopoeia*, the *Japanese standards for non-Pharmacopoeial crude drugs*, the *Korean Pharmacopoeia*, the *Korean Herbal Pharmacopoeia*, the *Thai Herbal Pharmacopoeia*, *Hong Kong Chinese Materia Medica Standards* and the *United States Pharmacopoeia* (see Table 2). Among the single herbal medicines that are recorded in the *Pharmacopoeia of the People's Republic of China*:

- 81 are also recorded in the *European Pharmacopoeia*;
- 129 are also recorded in the *Japanese Pharmacopoeia*;
- 25 are also recorded in the *Japanese standards for non-Pharmacopoeial crude drugs*;
- 149 are also recorded in the *Korean Pharmacopoeia*;
- 113 are also recorded in the *Korean Herbal Pharmacopoeia*;
- 32 are also recorded in the *Thai Herbal Pharmacopoeia*;
- 273 are also recorded in the *Hong Kong Chinese Materia Medica Standards*;
- 38 are also recorded in the *United States Pharmacopoeia*.

Table 2 — Single herbal medicines recorded in nine pharmacopoeias or standards

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
1	1	7	<i>Rehmannia glutinosa</i> root	rehmanniae radix	地黄	Dihuang	rehmannia root	x	x	x		x	x		x	x	JP: <i>Rehmannia glutinosa</i> var. <i>purpurea</i> root/KHP: fresh rehmannia root
2	8,5	6	<i>Angelica sinensis</i> root	angelicae sinensis radix	当归	Danggui	Chinese angelica	x	x			x		x		x	KP, USP: <i>Angelica gigas</i> root/THP: <i>Angelica polymorpha</i> var. <i>sinensis</i> root
3	8,5	6	<i>Scutellaria baicalensis</i> root	scutellariae radix	黄芩	Huangqin	baical skullcap root	x	x	x		x			x	x	
4	8,5	6	<i>Citrus reticulata</i> pericarp	citri reticulatae pericarpium	陈皮	Chenpi	dried tangerine peel	x	x	x		x			x	x	JP, KP: <i>Citrus unshiu</i> pericarp
5	8,5	6	<i>Salvia miltiorrhiza</i> root and rhizome	salviae miltiorrhizae radix et rhizoma	丹参	Danshen	danshen root	x	x	x		x			x	x	
6	8,5	6	<i>Schisandra chinensis</i> fruit/ <i>Schisandra sphenanthera</i> fruit	schisandrae chinensis fructus/schisandrae sphenantherae fructus	五味子/南五味子	Wuweizi/Nanwuweizi	Chinese magnolia-vine fruit/southern magnolia-vine fruit	x	x	x		x			x	x	
7	8,5	6	<i>Coptis chinensis</i> rhizome/ <i>Coptis deltoidea</i> rhizome/ <i>Coptis teeta</i> rhizome	coptidis rhizoma	黄连	Huanglian	golden thread	x	x	x		x			x	x	JP, KP: <i>Coptis japonica</i> rhizome

^a CHP stands for the *Pharmacopoeia of the People's Republic of China*, 2020 edition.

^b EUP stands for the *European Pharmacopoeia*, 10.7th edition.

^c JP stands for the *Japanese Pharmacopoeia*, 18th edition.

^d Non-JPS stands for the *Japanese standards for non-Pharmacopoeial crude drugs*, 2022 edition.

^e KP stands for the *Korean Pharmacopoeia*, 12th edition.

^f KHP stands for the *Korean Herbal Pharmacopoeia*, 4th edition.

^g THP stands for the *Thai Herbal Pharmacopoeia*, 2021 edition and 2021 edition Supplement 2022.

^h HKS stands for the *Hong Kong Chinese Materia Medica Standards*, Volume 1 to 10.

ⁱ USP stands for the *United States Pharmacopoeia*, including *United States Pharmacopoeia/National Formulary*, 2021 edition and *United States Pharmacopoeia/Herbal Medicines Compendium*.

Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
8	8,5	6	<i>Astragalus membranaceus</i> var. <i>mongolicus</i> root/ <i>Astragalus membranaceus</i> root	astragali radix	黄芪	Huangqi	milkvetch root	x	x	x		x			x	x	
9	8,5	6	<i>Forsythia suspensa</i> fruit	forsythiae fructus	连翘	Lianqiao	weeping forsythia capsule	x	x	x		x			x	x	KP: <i>Forsythia viridissima</i> fruit
10	8,5	6	<i>Polygonum multiflorum</i> root tuber	polygoni multiflori radix	何首乌	Heshouwu	fleeceflower root	x	x	x		x			x	x	
11	8,5	6	<i>Atractylodes lancea</i> rhizome/ <i>Atractylodes chinensis</i> rhizome	atractylodis rhizoma	苍术	Cangzhu	atractylodes rhizome	x	x	x		x		x	x		JP: rhizome of their interspecific hybrids
12	8,5	6	<i>Piper nigrum</i> fruit	piperis fructus	胡椒	Hujiao	pepper fruit	x	x				x	x	x	x	
13	8,5	6	<i>Curcuma longa</i> rhizome	curcumae longae rhizoma	姜黄	Jianghuang	turmeric	x		x		x		x	x	x	THP, USP: <i>Curcuma domestica</i> rhizome
14	8,5	6	<i>Cassia angustifolia</i> leaf/ <i>Cassia acutifolia</i> leaf	sennae folium	番泻叶	Fanxieye	senna leaf	x		x		x		x	x	x	THP: <i>Cassia alata</i> leaflet/ <i>Herpetica alata</i> leaflet/ <i>Cassia bracteata</i> leaflet/ <i>EUP: Cassia senna</i> leaflet/ <i>USP-NF: Senna alexandrina</i> leaflet

^a CHP stands for the Pharmacopoeia of the People's Republic of China, 2020 edition.^b EUP stands for the European Pharmacopoeia, 10.7th edition.^c JP stands for the Japanese Pharmacopoeia, 18th edition.^d Non-JPS stands for the Japanese standards for non-Pharmacopoeial crude drugs, 2022 edition.^e KP stands for the Korean Pharmacopoeia, 12th edition.^f KHP stands for the Korean Herbal Pharmacopoeia, 4th edition.^g THP stands for the Thai Herbal Pharmacopoeia, 2021 edition and 2021 edition Supplement 2022.^h HKS stands for the Hong Kong Chinese Materia Medica Standards, Volume 1 to 10.ⁱ USP stands for the United States Pharmacopoeia, including United States Pharmacopoeia/National Formulary, 2021 edition and United States Pharmacopoeia/Herbal Medicines Compendium.

Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
15	8,5	6	<i>Aucklandia lappa</i> root/ <i>Helleborus scaberrimus</i> root/ <i>Vladimiria souliei</i> root/ <i>Vladimiria souliei</i> var. <i>cinerea</i> root	aucklandiae radix/inulae radix/vladimiriae radix	木香/土木香/川木香	Muxiang/Tumuxiang/Chuangmuxiang	common aucklandia root/inula root/common vladimiria root	x	x	x		x	x	x	x		JP: <i>Saussurea lappa</i> root
16	41	5	<i>Ligusticum sinense</i> rhizome	chuanxiong rhizoma	川芎	Chuanxiong	Szechwan lovage rhizome	x	x			x		x	x		KP: <i>Knidium officinale</i> rhizome
17	41	5	<i>Houttuynia cordata</i> herb	hottuyniae herba	鱼腥草	Yuxingcao	heartleaf houttuynia herb	x	x	x			x		x		
18	41	5	<i>Coix lacrym-jobi</i> var. <i>mayuen</i> kernel	coicis semen	薏苡仁	Yiyiren	coix seed	x	x	x		x				x	
19	41	5	<i>Dioscorea oppositifolia</i> rhizome	dioscoreae rhizoma	山药	Shanyao	common yam rhizome	x	x	x		x				x	JP, KP: <i>Dioscorea japonica</i> rhizome/ <i>Dioscorea batatas</i> rhizome/USP: <i>Dioscorea polystachya</i> rhizome
20	41	5	<i>Lycium barbarum</i> fruit	lycii fructus	枸杞子	Gouqizi	barbary wolfberry fruit	x	x	x		x				x	JP, KP: <i>Lycium chinense</i> fruit
21	41	5	<i>Atractylodes macrocephala</i> rhizome	atractylodis macrocephalae rhizoma	白术	Baizhu	largehead atractylodes rhizome	x	x	x		x			x		JP, KP: <i>Atractylodes japonica</i> rhizome
22	41	5	<i>Platycodon grandiflorus</i> root	platycodonis radix	桔梗	Jiegeng	platycodon root	x	x	x		x			x		EUP, JP: <i>Platycodon grandiflorus</i> root

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Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
23	41	5	<i>Bupleurum chinense</i> root/ <i>Bupleurum scorzoniferifolium</i> root	bupleuri radix	柴胡	Chaihu	Chinese thorowax root	x	x	x		x			x		
24	41	5	<i>Carthamus tinctorius</i> flower	carthami flos	红花	Honghua	safflower	x	x	x		x			x		
25	41	5	<i>Ophiopogon japonicus</i> root tuber/ <i>Liriope muscari</i> root/ <i>Liriope spicata</i> var. <i>prolifera</i> root	ophiopogonis radix/ <i>Liriope</i> radix	麦冬/山麦冬	Maidong/Shanmaidong	dwarf lilyturf tuber/ <i>Liriope</i> root tuber	x	x	x		x			x		KP: <i>Liriope platyphylla</i> root tuber
26	41	5	<i>Notopterygium incisum</i> rhizome and root/ <i>Notopterygium franchetii</i> rhizome and root	notopterygii rhizoma et radix	羌活	Qianghuo	incised <i>notopterygium</i> rhizome or root	x	x	x		x			x		JP, KP: <i>Notopterygium franchetii</i> rhizome and root/ <i>Osterium koreanum</i> rhizome and root
27	41	5	<i>Achyranthes bidentata</i> root/ <i>Cyathula officinalis</i> root	achyranthis bidentatae radix/ <i>cyathulae</i> radix	牛膝/川牛膝	Niuxi/Chuanniuxi	two-toothed <i>achyranthes</i> root/ <i>medicinal cyathula</i> root	x	x	x		x			x		JP: <i>Achyranthes fauriei</i> root/ KP: <i>Achyranthes japonica</i> root
28	41	5	<i>Magnolia officinalis</i> bark/ <i>Magnolia officinalis</i> var. <i>biloba</i> bark	magnoliae officinalis cortex	厚朴	Houpo	official <i>magnolia</i> bark	x	x	x		x			x		JP, KP: <i>Magnolia obovata</i> bark

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Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
29	41	5	<i>Codonopsis pilosula</i> root/ <i>Codonopsis pilosula</i> var. <i>modesta</i> root/ <i>Codonopsis tangshen</i> root	<i>codonopsis radix</i>	党参	Dangshen	tangshen	x	x	x		x			x		
30	41	5	<i>Paeonia suffruticosa</i> root bark	<i>moutan cortex</i>	牡丹皮	Mudanpi	tree peony bark	x	x	x		x			x		
31	41	5	<i>Ephedra sinica</i> stem/ <i>Ephedra intermedia</i> stem/ <i>Ephedra equisetina</i> stem	<i>ephedrae herba</i>	麻黄	Mahuang	ephedra	x	x	x		x			x		
32	41	5	<i>Pueraria lobata</i> root	<i>puerariae lobatae radix</i>	葛根	Gegen	kudzu vine root	x	x	x		x			x		
33	41	5	<i>Prunus persica</i> seed/ <i>Prunus davidiana</i> seed	<i>persicae semen</i>	桃仁	Taoren	peach seed	x	x	x		x			x		JP: <i>Prunus persica</i> var. <i>davidiana</i> seed
34	41	5	<i>Gastrodia elata</i> tuber	<i>gastrodiae rhizoma</i>	天麻	Tianma	tall gastrodia tuber	x	x	x		x			x		
35	41	5	<i>Amomum villosum</i> fruit/ <i>Amomum villosum</i> var. <i>xanthioides</i> fruit/ <i>Amomum longigigulare</i> fruit	<i>amomi fructus</i>	砂仁	Sharen	villosum fruit	x	x	x		x			x		JP: <i>Amomum villosum</i> var. <i>villosum</i> seed
36	41	5	<i>Eucommia ulmoides</i> bark	<i>eucommiae cortex</i>	杜仲	Duzhong	eucommia bark	x	x	x		x			x		
37	41	5	<i>Anemarrhena asphodeloides</i> rhizome	<i>anemarrhenae rhizoma</i>	知母	Zhimu	common anemarrhena rhizome	x	x	x		x			x		

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Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
38	41	5	<i>Sophora flavescens</i> root	sophorae flavescens radix	苦参	Kushen	light yellow sophora root	x	x	x				x		
39	41	5	<i>Euodia rutaecarpa</i> fruit/ <i>Euodia rutaecarpa</i> var. <i>officinalis</i> fruit/ <i>Euodia rutaecarpa</i> var. <i>bodinieri</i> fruit	euodiae fructus	吴茱萸	Wuzhuyu	medicinal euodia fruit	x	x	x				x		"rutaecarpa" can also be marked as "ruticarpa"
40	41	5	<i>Prunella vulgaris</i> fruit-spike	prunellae spica	夏枯草	Xiakucao	common selfheal fruit-spike	x	x	x				x		JP, KP: <i>Prunella vulgaris</i> var. <i>lilacina</i> spike
41	41	5	<i>Corydalis yanhusuo</i> tuber	corydalis rhizoma	延胡索	Yanhusuo	yanhusuo	x	x	x				x		KP: <i>Corydalis ternata</i> tuber
42	41	5	<i>Angelica dahurica</i> root/ <i>Angelica dahurica</i> var. <i>formosana</i> root	angelicae dahuricae radix	白芷	Baizhi	dahurian angelica root	x	x	x			x			
43	41	5	<i>Paeonia lactiflora</i> root	paeoniae radix alba	白芍	Baishao	white peony root	x	x	x				x		JP, KP: paeoniae radix
44	41	5	<i>Paeonia lactiflora</i> root/ <i>Paeonia veitchii</i> root	paeoniae radix rubra	赤芍	Chishao	red peony root	x	x	x				x		
45	41	5	<i>Magnolia biondii</i> flower bud/ <i>Magnolia denudata</i> flower bud / <i>Magnolia sprengeri</i> flower bud	magnoliae flos	辛夷	Xinyi	biond magnolia flower	x	x	x		x		x		JP: <i>Magnolia salicifolia</i> flower/ <i>Magnolia heptapeta</i> flower/ JP, KHP: <i>Magnolia kobus</i> flower
46	41	5	<i>Andrographis paniculata</i> herb	andrographidis herba	穿心莲	Chuanxinlian	common andrographis herb	x	x				x	x	x	

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Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-IPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
47	41	5	<i>Ganoderma lucidum</i> sporophore/ <i>Ganoderma sinensis</i> sporophore	ganoderma	灵芝	Lingzhi	glossy ganoderma	x	x				x		x	x	
48	41	5	<i>Panax notoginseng</i> root and rhizome	notoginseng radix et rhizoma	三七	Sanqi	sanchi	x	x				x		x	x	
49	41	5	<i>Areca catechu</i> seed	arecae semen	槟榔	Binglang	areca seed	x		x		x		x	x		
50	41	5	<i>Cassia obtusifolia</i> seed/ <i>Cassia tora</i> seed	cassiae semen	决明子	Juemingzi	cassia seed	x		x		x		x	x		
51	41	5	<i>Terminalia chebula</i> fruit/ <i>Terminalia chebula</i> var. <i>tomentella</i> fruit	chebulae fructus	诃子	Hezi	medicine terminalia fruit	x				x		x	x	x	
52	41	5	<i>Acanthopanax senticosus</i> root and rhizome or stem	acanthopanax senticosi radix et rhizoma seu caulis	刺五加	Ciwujia	manyprickle acanthopanax	x		x			x		x	x	JP, USP: <i>Eleutherococcus senticosus</i> root and rhizome
53	41	5	<i>Glycyrrhiza uralensis</i> root and rhizome/ <i>Glycyrrhiza inflata</i> root and rhizome/ <i>Glycyrrhiza glabra</i> root and rhizome	glycyrrhizae radix et rhizoma	甘草	Gancao	licorice root			x		x			x	x	
54	41	5	<i>Panax ginseng</i> root and rhizome	ginseng radix et rhizoma	人参	Renshen	ginseng	x		x		x			x	x	

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55	41	5	<i>Zingiber officinale</i> rhizome	zingiberis rhizoma	干姜	Ganjiang	zingiber (dried ginger)	x		x		x		x		x	THP: <i>Amomum zingiber</i> rhizome
56	41	5	<i>Cyperus rotundus</i> rhizome	cyperi rhizoma	香附	Xiangfu	nutgrass galangale rhizome	x		x		x		x	x		
57	41	5	<i>Plantago asiatica</i> seed/ <i>Plantago depressa</i> seed	plantaginis semen	车前子	Cheqianzi	plantain seed	x		x		x		x	x		THP: <i>Plantago ovata</i> seed/ <i>Plantago ispaghula</i> seed
58	41	5	<i>Myristica fragrans</i> kernel	myristicae semen	肉豆蔻	Roudoukou	nutmeg	x		x		x		x			THP: <i>Myristica aromatica</i> kernel/ <i>Myristica moschata</i> kernel/ <i>Myristica officinalis</i> kernel/ <i>Palala fragrans</i> kernel
59	41	5	<i>Fritillaria thunbergii</i> bulb	fritillariae thunbergii bulbus	浙贝母	Zhebeimu	thunberg fritillary bulb	x	x	x		x		x			JP: <i>Fritillaria verticillata</i> var. <i>thunbergii</i> bulb
60	41	5	<i>Lonicera japonica</i> flower/ <i>Lonicera macranthoides</i> flower/ <i>Lonicera hypoglauca</i> flower/ <i>Lonicera confusa</i> flower/ <i>Lonicera fulvotomentosa</i> flower	lonicerae japonicae flos/ <i>lonicerae flos</i>	金银花/山银花	Jinyinhua/Shanyinhua	Japanese honeysuckle flower/ honeysuckle flower	x			x	x			x	x	

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61	41	5	<i>Sophora japonica</i> flower and flower bud	sophorae flos	槐花	Huaihua	pagodatree flower	x	x		x	x				x	USP: <i>Styphnolobium japonicum</i> flower
62	41	5	<i>Scrophularia ningpoensis</i> root	scrophulariae radix	玄参	Xuanshen	figwort root	x	x		x	x			x		Non-JPS, KP: <i>Scrophularia buergeriana</i> root
63	41	5	<i>Drynaria fortunei</i> rhizome	drynariae rhizoma	骨碎补	Gusuibu	fortune's drynaria rhizome	x	x		x	x			x		
64	41	5	<i>Belamcanda chinensis</i> rhizome	belamcandae rhizoma	射干	Shegan	blackberry-like rhizome	x	x		x		x		x		
65	41	5	<i>Ligusticum sinense</i> rhizome and root/ <i>Ligusticum jeholense</i> rhizome and root	ligustici rhizome et radix	藁本	Gaoben	Chinese lovage	x	x				x		x		KHP: <i>Ligusticum tenuissimum</i> rhizome and root
66	41	5	<i>Acorus tatarinowii</i> rhizome/ <i>Acorus calamus</i> rhizome	acori tatarinowii rhizoma/acori calami rhizoma	石菖蒲/藏菖蒲	Shichangpu/Zangchangpu	grassleaf sweetflag rhizome/tibet sweetflag rhizome	x			x		x	x			Non-JPS, KHP: <i>Acorus gramineus</i> rhizome
67	112	4	<i>Angelica pubescens</i> f. <i>biserrata</i> root	angelicae pubescents radix	独活	Duhuo	doubleteeth pubescent angelica root	x	x			x			x		KP: <i>Aralia continentalis</i> root
68	112	4	<i>Zanthoxylum schinifolium</i> pericarp/ <i>Zanthoxylum bungeanum</i> pericarp	zanthoxyli pericarpium	花椒	Huajiao	pricklyash peel	x	x		x	x					Non-JPS, KP: <i>Zanthoxylum piperitum</i> pericarp
69	112	4	<i>Poria cocos</i> sclerotium	poria	茯苓	Fuling	Indian bread	x	x	x		x					

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70	112	4	<i>Gardenia jasminoides</i> fruit	gardeniae fructus	梔子	Zhizi	cape jasmine fruit	x	x	x		x					
71	112	4	<i>Prunus armeniaca</i> var. <i>ansu</i> seed/ <i>Prunus sibirica</i> seed/ <i>Prunus mandshurica</i> seed/ <i>Prunus armeniaca</i> seed	armeniaca semen amarum	苦杏仁	Kuxingren	bitter apricot seed	x	x	x		x					
72	112	4	<i>Akebia quinata</i> stem/ <i>Akebia trifoliata</i> stem/ <i>Akebia trifoliata</i> var. <i>australis</i> stem	akebiae caulis	木通	Mutong	akebia stem	x	x	x		x					
73	112	4	<i>Sinomenium acutum</i> stem/ <i>Sinomenium acutum</i> var. <i>cinereum</i> stem	sinomenii caulis	青风藤	Qing-feng-teng	orientvine stem	x	x	x		x					JP, KP: <i>Sinomenium acutum</i> stem and rhizome
74	112	4	<i>Anomum compactum</i> fruit/ <i>Anomum kravanh</i> fruit	amomi fructus rotundus	豆蔻	Doukou	round cardamom fruit	x	x			x			x		
75	112	4	<i>Morinda officinalis</i> root	morindaе officinalis radix	巴戟天	Bajitian	morinda root	x	x			x			x		
76	112	4	<i>Lycopus lucidus</i> var. <i>hirtus</i> herb	lycopi herba	泽兰	Zelan	hirsute shiny bugleweed herb	x	x			x			x		KP: <i>Lycopus lucidus</i> herb
77	112	4	<i>Acanthopanax gracilistylus</i> root bark	acanthopanax cortex	五加皮	Wujiapi	slenderstyle acanthopanax bark	x	x			x			x		KP: <i>Acanthopanax sessiliflorum</i> root bark
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78	112	4	<i>Uncaria rhynchophylla</i> hook-bearing branch/ <i>Uncaria macrophylla</i> hook-bearing branch/ <i>Uncaria hirsuta</i> hook-bearing branch/ <i>Uncaria sinensis</i> hook-bearing branch/ <i>Uncaria sessilifrudus</i> hook-bearing branch	uncariae ramulus cum uncis	钩藤	Gouteng	gambir plant	x	x	x			x				
79	112	4	<i>Isatis indigotica</i> root/ <i>Baphicacanthus cusia</i> rhizome and root	isatidis radix/ baphicacanthi cusiae rhizoma et radix	板蓝根/南板蓝根	Banlangen/banlangen	isatis root/ baphicacanthus root	x	x				x		x		
80	112	4	<i>Sanguisorba officinalis</i> root/ <i>Sanguisorba officinalis</i> var. <i>longifolia</i> root	sanguisorbae radix	地榆	Diyu	garden bur-net root	x	x				x		x		
81	112	4	<i>Polygonum cuspidatum</i> rhizome and root	polygoni cuspidati rhizoma et radix	虎杖	Huzhang	giant knotweed rhizome	x	x				x		x		
82	112	4	<i>Eclipta prostrata</i> herb	ecliptae herba	墨旱莲	Mohanlian	yerbadetajo herb	x	x				x		x		
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83	112	4	<i>Polygonum bistorta</i> rhizome	bistortae rhizoma	拳参	Quanshen	bistort rhizome	x	x				x		x		EUP: <i>Percaria bistorta</i> rhizome/ KHP: <i>Bistorta manshuriensis</i> rhizome
84	112	4	<i>Polygonum tinctorium</i> leaf	polygoni tinctorii folium	蓼大青叶	Liaodaqingye	indigoplant leaf	x	x				x		x		EUP: <i>Persicaria tinctorium</i> leaf
85	112	4	<i>Fraxinus chinensis</i> branch bark or stem bark/ <i>Fraxinus szaboana</i> branch bark or stem bark/ <i>Fraxinus stylosa</i> branch bark or stem bark/ <i>Fraxinus rhynchophylla</i> branch bark or stem bark	fraxini cortex	秦皮	Qinpi	ash bark	x	x				x		x		
86	112	4	<i>Ziziphus jujuba</i> fruit	jujubae fructus	大枣	Dazao	Chinese date	x		x		x				x	JP, KP: <i>Ziziphus jujube</i> var. <i>inermis</i> fruit/KP: <i>Ziziphus jujube</i> var. <i>hoonensis</i> fruit
87	112	4	<i>Saposhnikovia divaricata</i> root	saposhnikoviae radix	防风	Fangfeng	divaricate saposhnikovia root	x		x		x			x		JP, KP: <i>Saposhnikovia divaricata</i> root and rhizome
88	112	4	<i>Alisma orientale</i> tuber	alismatis rhizoma	泽泻	Zexie	oriental waterplantain rhizome	x		x		x			x		

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89	112	4	<i>Phellodendron amurense</i> bark/ <i>Phellodendron chinensis</i> bark	phellodendri chinensis cortex/phellodendri amurenensis cortex	黄柏/关黄柏	Huangbo/ Guanhuangbo	Chinese cork-tree/amur cork-tree	x		x		x			x		
90	112	4	<i>Citrus aurantium</i> fruit/ <i>Citrus sinensis</i> fruit	aurantii fructus immaturus	枳实	Zhishi	immature orange fruit	x		x		x			x		JP: <i>Citrus aurantium</i> var. <i>daidai</i> fruit/ <i>Citrus natsudaidai</i> fruit/ KP: <i>Poncirus trifoliata</i> fruit
91	112	4	<i>Curcuma phaeocaulis</i> rhizome/ <i>Curcuma kwangsiensis</i> rhizome/ <i>Curcuma wenyujin</i> rhizome	curcumaе rhizoma	莪术	Ezhu	zedoary/ zedoary rhizome	x		x		x			x		JP: <i>Curcuma zedoaria</i> rhizome
92	112	4	<i>Polygala tenuifolia</i> root/ <i>Polygala sibirica</i> root	polygalae radix	远志	Yuanzhi	thinleaf milkwort root	x		x		x			x		
93	112	4	<i>Cornus officinalis</i> sarcocarp	corni fructus	山茱萸	Shanzhuyu	asiatic cornelian cherry fruit	x		x		x			x		
94	112	4	processed <i>Aconitum carmichaelii</i> daughter root	aconiti lateralis radix praeparata	附子	Fuzi	prepared common monkshood daughter root	x		x		x			x		
95	112	4	<i>Trichosanthes kirilowii</i> root/ <i>Trichosanthes rosthornii</i> root	trichosanthis radix	天花粉	Tianhuaafen	snakegourd root	x		x		x			x		JP: <i>Trichosanthes kirilowii</i> var. <i>japonica</i> root/ <i>Trichosanthes bracteata</i> root

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96	112	4	<i>Epimedium brevicornu</i> leaf/ <i>Epimedium sagittatum</i> leaf/ <i>Epimedium pubescens</i> leaf/ <i>Epimedium koreanum</i> leaf	<i>epimedium folium</i>	淫羊藿	Yinyang-huo	epimedium leaf	x		x		x			x		KP: <i>Epimedium wushanense</i> leaf / JP: <i>Epimedium grandiflorum</i> var. <i>thunbergianum</i> leaf / <i>Epimedium sempervirens</i> leaf
97	112	4	<i>Cimicifuga heracleifolia</i> rhizome / <i>Cimicifuga dahurica</i> rhizome / <i>Cimicifuga foetida</i> rhizome	<i>cimicifugae rhizoma</i>	升麻	Shengma	largetridifolious bugbane rhizome	x		x		x			x		JP, KP: <i>Cimicifuga simplex</i> rhizome
98	112	4	<i>Morus alba</i> bark	<i>mori cortex</i>	桑白皮	Sangbaipi	mulberry root bark	x		x		x			x		
99	112	4	<i>Sesamum tenuifolia</i> fruit-spike	<i>schizonepetae spica</i>	荆芥穗	Jingjiesui	fineleaf schizonepeta spike	x		x		x			x		JP, KP: <i>schizonepeta tenuifolia</i> spike
100	112	4	<i>Lindera aggregata</i> root tuber	<i>linderae radix</i>	乌药	Wuyao	combined spicebush root	x		x		x			x		JP: <i>Lindera strychnifolia</i> root / KP: <i>Lindera strychnifolia</i> root
101	112	4	<i>Asparagus cochinchinensis</i> root tuber	<i>asparagi radix</i>	天冬	Tiandong	cochinchinene asparagus root	x		x		x			x		
102	112	4	<i>Leonurus japonicus</i> herb	<i>leonuri herba</i>	益母草	Yimucao	motherwort herb	x		x		x			x		JP: <i>Leonurus sibiricus</i> herb

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103	112	4	<i>Polygonatum kin-gianum</i> rhizome/ <i>Polygonatum sibiricum</i> rhizome/ <i>Polygonatum cyrtoneurum</i> rhizome	polyonati rhizoma	黄精	Huangjing	solomonseal rhizome	x		x		x			x		JP, KP: <i>Polygonatum falcatum</i> rhizome
104	112	4	<i>Strychnos nux-vomica</i> seed	strychni semen	马钱子	Maqianzi	nux vomica	x		x		x			x		
105	112	4	<i>Gentiana manshurica</i> root and rhizome/ <i>Gentiana scabra</i> root and rhizome/ <i>Gentiana triflora</i> root and rhizome/ <i>Gentiana rigescens</i> root and rhizome	gentianae radix et rhizoma	龙胆	Longdan	Chinese gentian	x		x		x			x		
106	112	4	<i>Polyporus umbellatus</i> sclerotium	polyporus	猪苓	Zhuling	chuling	x		x		x			x		
107	112	4	<i>Lycium chinense</i> root bark/ <i>Lycium barbarum</i> root bark	lycii cortex	地骨皮	Digupi	Chinese wolfberry root-bark	x		x		x			x		
108	112	4	<i>Tribulus terrestris</i> fruit	tribuli fructus	蒺藜	Jili	puncturevine caltrop fruit	x		x		x			x		
109	112	4	<i>Glehnia littoralis</i> root	glehniae radix	北沙参	Beishashen	coastal glehnia root	x		x		x			x		
110	112	4	<i>Alpinia oxyphylla</i> fruit	alpiniae oxyphyllae fructus	益智	Yizhi	sharpleaf glangal fruit	x		x		x			x		
111	112	4	<i>Lonicera japonica</i> stem and branch	lonicerae japonicae caulis	忍冬藤	Ren-dongteng	honeysuckle stem	x		x		x			x		

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Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-IPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
112	112	4	<i>Crocus sativus</i> stigma	croci stigma	西红花	Xihonghua	saffron	x		x		x			x		
113	112	4	<i>Arnebia euchroma</i> root/ <i>Arnebia guttata</i> root	arnebiae radix	紫草	Zicao	arnebia root	x		x		x			x		JP, KP: <i>Lithospermum erythrorhizon</i> root
114	112	4	<i>Arctium lappa</i> fruit	arctii fructus	牛蒡子	Niubangzi	great burdock achene	x		x		x			x		
115	112	4	<i>Citrus aurantium</i> fruit	aurantii fructus	枳壳	Zhiqiao	orange fruit	x		x			x		x		JP, KHP: <i>Citrus natsudaoidai</i> fruit/JP: <i>Citrus aurantium</i> var. <i>daidai</i> fruit
116	112	4	<i>Chrysanthemum morifolium</i> capitulum/ <i>Chrysanthemum indicum</i> capitulum	chrysanthemi flos/chrysanthemi indicii flos	菊花/野菊花	Juhua/Yejuhua	chrysanthemum flower/wild chrysanthemum flower	x		x			x		x		JP: <i>Chrysanthemum indicum</i> flower
117	112	4	<i>Peucedanum praeruptorum</i> root	peucedani radix	前胡	Qianhu	fennel root	x		x			x		x		JP, KHP: <i>Angelica decursiva</i> root
118	112	4	<i>Clematis chinensis</i> root and rhizome/ <i>Clematis manshurica</i> root and rhizome/ <i>Clematis hexapetala</i> root and rhizome	clematidis radix et rhizoma	威灵仙	Weilingxian	Chinese clematis root			x			x		x		
119	112	4	<i>Artemisia scoparia</i> herb/ <i>Artemisia capillaris</i> flower	artemisiae scopariae herba	茵陈	Yinchen	virgate wormwood herb	x		x			x		x		

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No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
120	112	4	<i>Cnidium monnieri</i> fruit	cnidii fructus	蛇床子	Shechuang-zi	common cnidium fruit	x		x			x		x		KHP: <i>Torilis japonica</i> fruit
121	112	4	<i>Cistanche deserticola</i> fleshy stem/ <i>Cistanche tubulosa</i> fleshy stem	cistanches herba	肉苁蓉	Rou-congrong	desertliving cistanche	x		x			x		x		JP: <i>Cistanche salsa</i> fleshy stem
122	112	4	<i>Smilax glabra</i> rhizome	smilacis glabrae rhizoma	土茯苓	Tufuling	glabrous greenbrier rhizome	x		x			x		x		
123	112	4	<i>Plantago asiatica</i> herb/ <i>Plantago depressa</i> herb	plantaginis herba	车前草	Cheqiancao	plantain herb	x		x			x		x		
124	112	4	<i>Peucedanum decursivum</i> root and rhizome	peucedani decursivi radix	紫花前胡	Zihuqian-hu	decurent hogfennel root	x		x			x		x		KHP: <i>Angelica decursiva</i> root and rhizome
125	112	4	<i>Cinnamomum cassia</i> branch	cinnamomi ramulus	桂枝	Guizhi	cassia twig	x					x		x	x	
126	112	4	<i>Trigonella foenum-graecum</i> seed	trigonellae semen	胡芦巴	Huluba	common fenugreek seed	x					x		x	x	
127	112	4	<i>Psoralea corylifolia</i> fruit	psoraleae fructus	补骨脂	Buguzhi	malaytea scurfpea fruit	x					x		x	x	USP: <i>Cullen corylifolium</i> fruit
128	112	4	<i>Allium sativum</i> bulb	alli sativi bulbus	大蒜	Dasuan	garlic bulb	x					x	x		x	
129	112	4	<i>Artemisia annua</i> herb	artemisiae annuae herba	青蒿	Qinghao	sweet worm- wood herb	x					x	x			KHP: <i>Artemisia apiacea</i> herb

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No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
130	112	4	<i>Nardostachys jatamansi</i> root and rhizome/ <i>Nardostachys grandiflora</i> root and rhizome/ <i>Nardostachys chinensis</i> root and rhizome	nardostachyos radix et rhizome	甘松	Gansong	nardostachys root	x					x				THP: <i>Nardostachys grandiflora</i> root and rhizome/KHP: <i>Nardostachys chinensis</i> root and rhizome
131	112	4	<i>Picrorhiza scrophulariiflora</i> rhizome/ <i>Picrorhiza kurroa</i> rhizome/ <i>Neopicrorhiza scrophulariiflora</i> rhizome	picrorhizae rhizoma	胡黄连	Huhuanglian	figwortflower picrorhiza rhizome	x					x				KHP: <i>Picrorhiza kurroa</i> rhizome/THP: <i>Neopicrorhiza scrophulariiflora</i> rhizome
132	112	4	<i>Picrasma quassioides</i> branch and leaf	picrasmae ramulus et folium	苦木	Kumu	Indian quasi-siawood	x		x		x					
133	112	4	<i>Cinnamomum cassia</i> bark	cinnamomi cortex	肉桂	Rougui	cassia bark	x		x		x					
134	112	4	<i>Rheum palmatum</i> root and rhizome/ <i>Rheum tanguticum</i> root and rhizome/ <i>Rheum officinale</i> root and rhizome	rhei radix et rhizoma	大黄	Dahuang	rhubarb	x		x		x					JP: <i>Rheum palmatum</i> rhizome/ <i>Rheum tanguticum</i> rhizome/ <i>Rheum officinale</i> rhizome/ <i>Rheum coreanum</i> rhizome/ their interspecific hybrids

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135	112	4	<i>Capsicum annuum</i> fruit	capsici fructus	辣椒	Lajiao	hot pepper	x		x		x		x			THP: <i>Capsium frutescens</i> fruit/ <i>Capsicum minimum</i> fruit/ <i>Capsicum fastigiatum</i> fruit
136	112	4	<i>Foeniculum vulgare</i> fruit	foeniculi fructus	小茴香	Xiaohuixiang	fennel	x		x		x		x			THP: <i>Foeniculum vulgare</i> var. <i>dulce</i> fruit
137	112	4	<i>Ginkgo biloba</i> leaf	ginkgo folium	银杏叶	Yinxingye	ginkgo leaf	x				x			x	x	
138	112	4	<i>Centella asiatica</i> herb	centellae herba	积雪草	Jixuecao	asiatic pennywort herb	x						x	x	x	
139	112	4	<i>Descurainia sophia</i> seed/ <i>Lepidium apetalum</i> seed	descurainiae semen/lepidii semen	葶苈子	Tinglizi	pepperweed seed/tan-symustard seed	x					x	x			THP: <i>Lepidium sativum</i> seed
140	112	4	<i>Albizia julibrissin</i> stem bark	albiziae cortex	合欢皮	Hehuanpi	silky tree albizia bark	x					x	x			THP: <i>Albizia procera</i> stem bark/ <i>Acacia procera</i> stem bark/ <i>Mimosa procera</i> stem bark
141	112	4	<i>Eugenia caryophyllata</i> flower bud	caryophylli flos	丁香	Dingxiang	clove	x		x		x		x			
142	112	4	<i>Piper longum</i> fruit-spike	piperis longui fructus	荜茇	Bibo	long pepper	x	x				x	x			KHP: <i>Piperi longi</i> fruit-spike/ THP: <i>Piper retrofractum</i> fruit-spike

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143	112	4	<i>Chaenomeles speciosa</i> fruit	chaenomeles fructus	木瓜	Mugua	common flowering- quince fruit	x	x		x		x				Non-JPS, KHP: <i>Chaenomeles sinensis</i> fruit
144	112	4	<i>Curcuma wenyujin</i> root tuber/ <i>Curcuma longa</i> root tuber/ <i>Curcuma kwangsiensis</i> root tuber/ <i>Curcuma phaeocaulis</i> root tuber	curcumae radix	郁金	Yujin	turmeric root tuber	x		x		x			x		
145	112	4	<i>Areca catechu</i> pericarp	arecae pericarpium	大腹皮	Dafupi	areca peel	x			x				x		
146	112	4	<i>Xanthium sibiricum</i> fruit	xanthii fructus	苍耳子	Cangerzi	Siberian cocklebur fruit	x			x				x		Non-JPS, KP: <i>Xanthium strumarium</i> fruit
147	112	4	<i>Aster tataricus</i> root and rhizome	asteris radix et rhizoma	紫菀	Ziwan	tatarian aster root	x			x				x		
148	112	4	<i>Tussilago farfara</i> flower bud	farfarae flos	款冬花	Kuandong-hua	common coltsfoot flower	x			x				x		
149	112	4	<i>Vitex trifolia</i> var. <i>simplicifolia</i> fruit / <i>Vitex trifolia</i> fruit	viticis fructus	蔓荆子	Manjingzi	shrub chastetree fruit	x			x				x		Non-JPS, KP: <i>Vitex rotundifolia</i> fruit
150	112	4	<i>Trichosanthes kirilowii</i> seed/ <i>Trichosanthes rosthornii</i> seed	trichosanthis semen	瓜蒌子	Gualouzi	snakegourd seed	x			x				x		Non-JPS: <i>Trichosanthes kirilowii</i> var. <i>japonica</i> seed/ <i>Trichosanthes bracteata</i> seed

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151	112	4	<i>Alpinia katsumadai</i> seed	alpiniae katsu-madai semen	草豆蔻	Caodoukou	katsumada galangal seed	x			x	x			x		Non-JPS: <i>Gentiana tibetica</i> root/ <i>Gentiana dendrologi</i> root/ <i>Gentiana officinalis</i> root/root of their interspecific hybrids
152	112	4	<i>Gentiana macrophylla</i> root/ <i>Gentiana straminea</i> root/ <i>Gentiana crassicaulis</i> root/ <i>Gentiana dahurica</i> root	gentianae macrophyllae radix gentianae stramineae radix gentianae crassicaulis radix gentianae dahuricae radix	秦艽	Qinjiao	largeleaf gentian root	x			x	x			x		
153	112	4	<i>Spatholobus suberectus</i> stem	spatholobi caulis	何首乌	Jixueteng	suberect spatholobus stem	x			x		x		x		
154	112	4	<i>Ligustrum lucidum</i> fruit	ligustri lucidi fructus	女贞子	Nüzhenzi	glossy privet fruit	x			x		x		x		Non-JPS, KHP: <i>Ligustrum japonicum</i> fruit
155	112	4	<i>Melia toosendan</i> fruit	toosendan fructus	川楝子	Chuan-lianzi	Szechwan chinaberry fruit	x			x		x		x		Non-JPS: <i>Melia azedarach</i> var. <i>subtripinnata</i> fruit/KHP: <i>Melia azedarach</i> fruit
156	112	4	<i>Sophora tonkinensis</i> root and rhizome	sophorae tonkinensis radix et rhizoma	山豆根	Shandou-gen	Vietnamese sophora root	x			x		x		x		
157	112	4	<i>Juncus effusus</i> stem pith	common rush	灯心草	Dengxin-cai	junci medulla	x			x	x			x		
158	216,5	3	<i>Artemisia argyi</i> leaf	artemisiae argyi folium	艾叶	Aiye	argy mormwort leaf	x					x		x		KHP: <i>Artemisia princeps</i> leaf/ <i>Artemisia montana</i> leaf

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159	216,5	3	<i>Rosa laevigata</i> fruit	rosae laevigatae fructus	金樱子	Jinyingzi	cherokee rose fruit	x				x			x		
160	216,5	3	<i>Stephania tetrandra</i> root	stephaniae tetrandae radix	防己	Fangji	fourstamen stephania root	x	x						x		
161	216,5	3	<i>Clematis armandi</i> stem/ <i>Clematis mandii</i> caulis montana stem	clematidis armandi caulis mandii caulis	川木通	Chuanmuntong	armand clematis stem	x	x						x		
162	216,5	3	<i>Dioscorea niponica</i> rhizome	dioscoreae niponicae rhizoma	穿山龙	Chuan-shanlong	nippon yam rhizome	x	x						x		
163	216,5	3	<i>Pueraria thomsonii</i> root	puerariae thomsonii radix	粉葛	Fenge	thomson kudzu vine root	x	x						x		
164	216,5	3	<i>Polygonum orientale</i> fruit	polygoni orientalis fructus	水红花子	Shuihong-huazi	prince's-feather fruit	x	x						x		
165	216,5	3	<i>Magnolia officinalis</i> flower bud/ <i>Magnolia officinalis</i> var. <i>biloba</i> flower bud	magnoliae officinalis flos	厚朴花	Houpuhua	official magnolia flower	x	x						x		
166	216,5	3	<i>Typha angustifolia</i> pollen/ <i>Typha orientalis</i> pollen	typhae pollen	蒲黄	Puhuang	cattail pollen	x	x				x				
167	216,5	3	<i>Pinellia ternata</i> tuber	pinelliae rhizoma	半夏	Banxia	pinellia tuber	x		x		x					
168	216,5	3	<i>Mentha haplocalyx</i> herb	menthae haplocalydis herb	薄荷	Bohe	peppermint	x		x		x					
169	216,5	3	<i>Crataegus pinnatifida</i> var. <i>major</i> fruit/ <i>Crataegus pinnatifida</i> fruit	crataegi fructus	山楂	Shanzha	hawthorn fruit	x				x					JP: <i>Crataegus cuneata</i> fruit

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170	216,5	3	<i>Eriobotrya japonica</i> leaf	eribotryae folium	枇杷叶	Pipaye	loquat leaf	x		x		x					
171	216,5	3	<i>Nelumbo nucifera</i> seed	nelumbinis semen	莲子	Lianzi	lotus seed	x		x		x					
172	216,5	3	<i>Alpinia officinarum</i> rhizome	alpiniae officinarum rhizoma	高良姜	Gaoliang-jiang	lesser galangal rhizome	x		x		x					
173	216,5	3	<i>Dimorcarpus longan arill</i>	longan arillus	龙眼肉	Longyanrou	longan aril	x		x		x					
174	216,5	3	<i>Pharbitis nil</i> seed/ <i>Pharbitis purpurea</i> seed	pharbitidis semen	牵牛子	Qianniuzi	pharbitis seed	x		x		x					
175	216,5	3	<i>Caesalpinia sappan</i> heart wood	sappan lignum	苏木	Sumu	sappan wood	x		x		x					
176	216,5	3	<i>Imperata cylindrica</i> var. <i>major</i> rhizome	imperatae rhizoma	白茅根	Baimaogen	lalang grass rhizome	x		x		x					JP: <i>Imperata cylindrica</i> rhizome/ KP: <i>Imperata cylindrica</i> var. <i>koenigii</i> rhizome
177	216,5	3	<i>Erodium stephanianum</i> herb/ <i>Geranium wilfordii</i> herb/ <i>Geranium carolinianum</i> herb	erodii herba/ geranii herba	老鹳草	Laohecao	common heron's bill herb/wilford granesbill herb	x		x		x					JP, KP: <i>Geranium thunbergii</i> herb
178	216,5	3	<i>Swertia pseudochinensis</i> herb	swertiae herba	当药	Dangyao	false Chinese swertia herb	x		x		x					JP, KP: <i>Swertia japonica</i> herb

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No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
179	216,5	3	<i>Perilla frutescens</i> leaf	perillae folium	紫苏叶	Zisuye	perilla leaf	x		x		x					KP: <i>Perilla frutescens</i> var. <i>acuta</i> leaf/ JP, KP: <i>Perilla frutescens</i> var. <i>crispata</i> leaf
180	216,5	3	<i>Fritillaria cirrhosa</i> bulb/ <i>Fritillaria unibracteata</i> bulb/ <i>Fritillaria przewalskii</i> bulb/ <i>Fritillaria delavayi</i> bulb/ <i>Fritillaria taipaiensis</i> bulb/ <i>Fritillaria unibracteata</i> var. <i>wabuensis</i> bulb	fritillariae cirrhosae bulbus	川贝母	Chuan-beimu	tendrillleaf fritillary bulb	x				x			x		
181	216,5	3	<i>Cibotium barometz</i> rhizome	cibotii rhizoma	狗脊	Gouji	cibot rhizome	x				x			x		
182	216,5	3	<i>Cynomorium songaricum</i> stem	cynomorii herba	锁阳	Suoyang	songaria cynomorium herb	x				x			x		
183	216,5	3	<i>Rubus chingii</i> fruit	rubi fructus	覆盆子	Fupanzi	palmleaf raspberry fruit	x				x			x		
184	216,5	3	<i>Platycladus orientalis</i> kernel	platycladi semen	柏子仁	Baiziren	Chinese arborvitae kernel	x				x			x		KP: <i>Thuja orientalis</i> kernel
185	216,5	3	<i>Dictamnus dasycarpus</i> root bark	dictamni cortex	白鲜皮	Baixianpi	densefruit pittany root-bark	x				x			x		

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186	216,5	3	<i>Gleditsia sinensis</i> spine	gleditsiae spina	皂角刺	Zaojiaoci	Chinese honeylocust spine	x				x			x		KP: <i>Gleditsia japonica</i> var. <i>koraensis</i> thorn
187	216,5	3	<i>Amomum tsao-ko</i> fruit	tsaoko fructus	草果	Caoguo	caoguo	x				x			x		
188	216,5	3	<i>Kochiascoparia</i> fruit	kochiae fructus	地肤子	Difuzi	belvedere fruit	x				x			x		
189	216,5	3	<i>Croton tiglium</i> fruit	crotonis fructus	巴豆	Badou	croton fruit	x				x			x		
190	216,5	3	<i>Citrus reticulata</i> exocarp/ <i>Citrus grandis</i> 'Tomentosa' exocarp/ <i>Citrus grandis</i> exocarp	citri exocarpium rubrum/citri grandis exocarpium	橘红/地肤子 橘红	Juhong/ Huauihong	red tangerine peel/pumme-lo peel	x							x	x	USP: <i>Citrus maxima</i> exocarp and mesocarp
191	216,5	3	processed <i>Aconitum carmichaelii</i> parent root tuber	aconiti radix cocta	制川乌	Zhichuanwu	prepared common monkshood mother root	x		x					x		JP: processed <i>Aconitum carmichaelii</i> tuberous root/pro-cessed <i>Aconitum japonicum</i> tuberous root
192	216,5	3	<i>Panax japonicus</i> rhizome	panacis japonici rhizoma	竹节参	Zhujiashen	japanese ginseng	x		x					x		
193	216,5	3	<i>Hedysarum polybotrys</i> root	hedysari radix	红芪	Hongqi	manyinflo-resced sweetvetch root	x		x					x		

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194	216,5	3	<i>Lilium lancifolium</i> bulb/ <i>Lilium brownii</i> var. <i>viridulum</i> bulb/ <i>Lilium pumilum</i> bulb	lilii bulb	百合	Baihe	lily bulb	x		x			x				JP: <i>Lilium brownii</i> var. <i>colchesteri</i> bulb/ <i>Lilium brownii</i> bulb
195	216,5	3	<i>Sesamum indicum</i> seed	sesami semen	黑芝麻	Heizhima	black sesame	x		x			x				
196	216,5	3	<i>Rhodiola crenulata</i> root and rhizome	rhodiolae crenulatae radix et rhizoma	红景天	Hong-jingtian	bigflower rhodiola root	x						x		x	
197	216,5	3	<i>Panax quinquefolium</i> root	panacis quinquefolii radix	西洋参	Xiyangshen	American ginseng	x							x	x	
198	216,5	3	<i>Vitex negundo</i> var. <i>cannabifolia</i> leaf	viticis negundo folium	牡荆叶	Mujingye	hempleaf negundo chastetree leaf	x							x	x	
199	216,5	3	<i>Phyllanthus emblica</i> fruit	phyllanthi fructus	余甘子	Yuganzizi	emblic leaf-flower fruit	x						x			
200	216,5	3	<i>Nelumbo nucifera</i> stamen	nelumbinis stamen	莲须	Lianxu	lotus stamen	x						x			THP: <i>Nelumbium speciosum</i> stamen
201	216,5	3	<i>Cuscuta australis</i> seed/ <i>Cuscuta chinensis</i> seed	cuscutae semen	菟丝子	Tusizi	dodder seed	x					x		x		
202	216,5	3	<i>Dipsacus asper</i> root	dipsaci radix	续断	Xuduan	himalayan teasel root	x					x		x		KHP: <i>Dipsacus asperoides</i> root
203	216,5	3	<i>Daemonorops draco</i> fruit resin	draconis sanguis	血竭	Xuejie	dragon's blood	x					x		x		

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204	216,5	3	<i>Stemona sessifolia</i> root tuber/ <i>Stemona japonica</i> root tuber/ <i>Stemona tuberosa</i> root tuber	stemonae radix	百部	Baibu	stemona root	x					x		x		
205	216,5	3	<i>Ricinus communis</i> seed	ricini semen	蓖麻子	Bimazi	castor seed	x					x		x		
206	216,5	3	<i>Lophatherum gracile</i> stem and leaf	lophatheri herba	淡竹叶	Danzhuye	lophatherum herb	x					x		x		
207	216,5	3	<i>Dendrobium nobile</i> stem/ <i>Dendrobium huoshanense</i> stem/ <i>Dendrobium chrysotoxum</i> stem/ <i>Dendrobium fimbriatum</i> stem/ <i>Dendrobium officinale</i> stem	dendrobii caulis/ dendrobii officinalis caulis	石斛/铁皮石斛	Shihu/Tie-pishihu	dendrobium/ dendrobium stem	x					x		x		KHP: <i>Dendrobium lodi-digesii</i> stem/ <i>Dendrobium fimbriatum</i> var. <i>oculatum</i> stem/ <i>Dendrobium chrysanthum</i> stem/ <i>Dendrobium candidum</i> stem
208	216,5	3	<i>Taxillum chinense</i> branch	taxilli herba	桑寄生	Sang-jisheng	Chinese taxillus herb	x					x		x		KHP: <i>Loranthus parasiticus</i> branch/ <i>Loranthus chinensis</i> branch
209	216,5	3	<i>Lysimachia christinae</i> herb/ <i>Desmodium styracifolium</i> herb	lysimachiae herba/ desmodii styracifolii herba	金钱草/广金钱草	Jinqiancao/ Guangjinqiancao	christina loosestrife/ snowbell leaf tickclover herb	x					x		x		

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210	216,5	3	<i>Aconitum ecar- michaelii</i> parent root tuber	aconiti radix	川乌	Chuanwu	common monkshood mother root	x					x		x		
211	216,5	3	<i>Quisqualis indica</i> fruit	quisqualis fructus	使君子	Shijunzi	rangoon- creeper fruit	x					x		x		
212	216,5	3	<i>Isatis indigotica</i> leaf	isatidis folium	大青叶	Daqingye	dyers woad leaf	x					x		x		KHP: <i>Persicaria tinctoria</i> leaf
213	216,5	3	<i>Aconitum kusne- zoffii</i> root tuber	aconiti kusne- zoffii radix	草乌	Caowu	kusnezoff monkshood root	x					x		x		KHP: <i>Aconi- tum ciliare</i> root tuber/ <i>Aconitum tri- phyllum</i> root tuber
214	216,5	3	<i>Gleditsia sinensis</i> fruit	gleditsiae fruc- tus abnormalis	猪牙皂	Zhuoyazao	Chinese honeylocust abnormal fruit	x					x		x		KHP: <i>Gleditsia japonica</i> fruit
215	216,5	3	<i>Agrimonia pilosa</i> herb	agrimoniae herba	仙鹤草	Xianhecao	hairyvein agrimonia herb	x					x		x		
216	216,5	3	<i>Vaccaria segeta- lis</i> seed	vaccariae semen	王不留行	Wangbuli- uxing	cowherb seed	x					x		x		KHP: <i>Melan- dryum firmum</i> herb and fruit
217	216,5	3	<i>Siegesbeckia orientalis</i> herb/ <i>Siegesbeckia pubescens</i> herb/ <i>Siegesbeckia gla- brescens</i> herb	siegesbeckiae herba	稀莪草	Xixiancao	siegesbeckia herb	x					x		x		
218	216,5	3	<i>Dryopteris crassirhizoma</i> rhizome and frond bases	dryopteridis crassirhizomatis rhizoma	绵马贯众	Mian- maguan- zhong	male fern rhizome	x					x		x		

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219	216,5	3	<i>Viola yedoensis</i> herb	violae herba	紫花地丁	Zihuadiding	Tokyo violet herb	x					x		x		KHP: <i>Viola mandshurica</i> herb
220	216,5	3	<i>Platycladus orientalis</i> twig and leaf	platycladi cacumen	侧柏叶	Cebaiye	Chinese arborvitae twig and leaf	x					x		x		
221	216,5	3	<i>Polygonum multiflorum</i> stem	polygoni multiflori caulis	首乌藤	Shouwuteng	tuber fleeceflower stem	x					x		x		
222	216,5	3	<i>Scutellaria barbata</i> herb	scutellariae barbatae herba	半枝莲	Banzhilian	barbated skullcup herb	x					x		x		
223	216,5	3	<i>Ampelopsis japonica</i> root tuber	ampelopsis radix	白藜	Bailian	Japanese ampelopsis root	x					x		x		
224	216,5	3	<i>Viscum coloratum</i> stem and branch	visci herba	槲寄生	Hujisheng	colored mistletoe herb	x					x		x		
225	216,5	3	<i>Curculigo orchioides</i> rhizome	curculiginis rhizoma	仙茅	Xianmao	common curculigo rhizome	x					x		x		
226	216,5	3	<i>Astragalus complanatus</i> seed	astragali complanati semen	沙苑子	Shayuanzi	flatstem milkvetch seed	x					x		x		
227	216,5	3	<i>Omphalia lapidescens</i> sclerotium	omphalia	雷丸	Leiwan	thunder ball	x					x		x		
228	216,5	3	<i>Cynanchum paniculatum</i> root and rhizome	cynanchi paniculati radix et rhizoma	徐长卿	Xuchangqing	paniculate swallowwort root	x					x		x		
229	216,5	3	<i>Morus alba</i> branch	mori ramulus	桑枝	Sangzhi	mulberry twig	x					x		x		

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230	216,5	3	<i>Polygonum viviparum</i> herb	polygoni avicularis herba	蒭蓄	Bianxu	common knotgrass herb	x					x		x		
231	216,5	3	<i>Rubia cordifolia</i> root and rhizome	rubiae radix et rhizoma	茜草	Qiancao	Indian mad-der root	x					x		x		KHP: <i>Rubia akane</i> root and rhizome
232	216,5	3	<i>Rhaponticum uniflorum</i> root	rhapontici radix	漏芦	Loulu	uniflower swisscentaury root	x					x		x		KHP: <i>Echinops setifer</i> root/ <i>Echinopsis lactifolius</i> root
233	216,5	3	<i>Pyrrosia sheareria</i> leaf/ <i>Pyrrosia lingua</i> leaf/ <i>Pyrrosia petiolosa</i> leaf	pyrrosiae folium	石韦	Shiwei	shearer's pyrrosia leaf	x					x		x		KHP: <i>Pyrrosia tricuspidata</i> leaf
234	216,5	3	<i>Sophora japonica</i> fruit	sophorae fructus	槐角	Huajiao	Japanese pagodatree pod	x					x		x		
235	216,5	3	<i>Allium tuberosum</i> seed	allii tuberosi semen	韭菜子	Jiucailizi	tuber onion seed	x					x		x		
236	216,5	3	<i>Buddleja officinalis</i> flower bud and inflorescence	buddlejae flos	密蒙花	Mimenghua	pale butterfly bush flower	x					x		x		
237	216,5	3	<i>Girsium setosum</i> herb	cirsii herba	小蓟	Xiaoji	field thistle herb	x					x		x		KHP: <i>Breva segeta</i> herb
238	216,5	3	<i>Pulsatilla chinensis</i> root	pulsatillae radix	白头翁	Baitouweng	Chinese pulsatilla root	x					x		x		KHP: <i>Pulsatilla koreana</i> root
239	216,5	3	<i>Celosia argentea</i> seed	celosiae semen	青葙子	Qingxiangzi	feather cockscomb seed	x					x		x		
240	216,5	3	<i>Euphorbia kansui</i> tuber root	kansui radix	甘遂	Gansui	gansui root	x					x		x		

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241	216,5	3	<i>Liquidambar formosana</i> fructescences	liquidambaris fructus	路路通	Lulutong	beautiful sweetgum fruit	x					x		x		
242	216,5	3	<i>Smilax china</i> rhizome	smilacis chinae rhizoma	菝葜	Baqia	chinaroot greenbrier rhizome	x					x		x		
243	216,5	3	<i>Trachelospermum jasminoides</i> stem	trachelospermum caulis et folium	络石藤	Luoshiteng	Chinese starjasmine stem	x					x		x		KHP: <i>Trachelospermum jasminoides</i> var. <i>pubescens</i> stem/ <i>Trachelospermum asiaticum</i> stem
244	216,5	3	<i>Daphne genkwa</i> flower bud	genkwa flos	芫花	Yuanhua	lilac daphne flower bud	x					x		x		
245	216,5	3	<i>Cirsium japonicum</i> herb	cirsii japonici herba	大蓟	Daji	Japanese thistle herb	x					x		x		KHP: <i>Cirsium japonicum</i> var. <i>ussuriense</i> herb
246	216,5	3	<i>Eupatorium fortunei</i> herb	eupatorii herba	佩兰	Peilan	fortune eupatorium herb	x					x		x		
247	216,5	3	<i>Litsea cubeba</i> fruit	litseae fructus	萆澄茄	Bichengqie	mountain spicy fruit	x					x		x		KHP: <i>Piper cubeba</i> fruit
248	216,5	3	<i>Selaginella tamariscina</i> herb/ <i>Selaginella pulvinata</i> herb	selaginellae herba	卷柏	Juanbai	spikemoss	x					x		x		
249	216,5	3	<i>Euphorbia lathyris</i> seed	euphorbiae semen	千金子	Qianjinzi	caper euphorbia seed	x					x		x		
250	216,5	3	<i>Saururus chinensis</i> herb	saururi herba	三白草	Sanbaicao	Chinese lizardtail herb	x					x		x		

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Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
251	216,5	3	<i>Potentilla chinensis</i> herb	potentillae chinensis herba	委陵菜	Weilingcai	Chinese cinquefoil	x					x		x		
252	216,5	3	<i>Celosia cristata</i> capitulum	celosiae cristatae flos	鸡冠花	Jiguanhua	cockcomb flower	x					x		x		
253	216,5	3	<i>Morus alba</i> leaf	mori folium	桑叶	Sangye	mulberry leaf	x					x	x			KHP: <i>Morus bombycis</i> leaf
254	216,5	3	<i>Santalum album</i> heartwood	santali albi lignum	檀香	Tanxiang	sandalwood	x					x	x			THP: <i>Santalum ovata</i> heartwood/ <i>Santalum ovatum</i> heartwood/ <i>Santalum myrtifolium</i> heartwood/ <i>Sirium myrtifolium</i> heartwood
255	216,5	3	<i>Sparganium stoloniferum</i> tuber rhizome	sparganii rhizoma	三棱	Sanle	common bur-reed tuber	x				x			x		
256	216,5	3	<i>Asarum heterotropoides</i> var. <i>mandshuricum</i> root and rhizome/ <i>Asarum zome</i> / <i>Asarum sieboldii</i> var. <i>seoulense</i> root and rhizome/ <i>Asarum sieboldii</i> root and rhizome	asari radix et rhizoma	细辛	Xixin	Manchurian wildginger root	x		x		x					
257	216,5	3	<i>Ziziphus jujuba</i> var. <i>spinosa</i> seed	ziziphi spinosae semen	酸枣仁	Suanzaoren	spine date seed	x		x		x					
258	216,5	3	<i>Dolichos lablab</i> seed	lablab semen album	白扁豆	Baibandou	white hyacinth bean	x		x		x					

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Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-IPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
259	216,5	3	<i>Styrax tonkinensis</i> resin	benzoinum	安息香	Anxixiang	benzoin	x		x							
260	216,5	3	<i>Pogostemon cablin</i> herb/ <i>Agastache rugosa</i> herb	pogostemonis herba/ agastachis herba	广藿香/ 藿香	Guang-huoxiang/ Huoxiang	cablin patch- ouli herb/ agastache herb	x		x							
261	216,5	3	<i>Commiphora molmol</i> resin/ <i>Commiphora myrrha</i> resin	myrrha	没药	Moyao	myrrh	x		x						x	
262	216,5	3	<i>Aloe barbadensis</i> juice/ <i>Aloe ferox</i> juice	aloe	芦荟	Luhui	aloes	x		x			x				JP, KHP: <i>Aloe africana</i> juice/ <i>Aloe spicata</i> juice
263	216,5	3	<i>Equisetum hyemale</i> herb	equiseti hiemalis herba	木贼	Muzei	common scouring rush herb	x					x				EUP: <i>Equisetum arvense</i> herb
264	216,5	3	<i>Verbena officinalis</i> herb	verbenae herba	马鞭草	Mabiancao	European verbena herb	x					x				
265	216,5	3	<i>Sinapis alba</i> seed/ <i>Brassica juncea</i> seed	sinapis semen/ brassicaceae semen	芥子	Jiezi	mustard seed	x					x				
266	216,5	3	<i>Leonurus japonicus</i> fruit	leonuri fructus/ leonuri semen	茺蔚子	Chongweizi	motherwort fruit	x					x				KHP: <i>Leonurus japonicus</i> seed
267	216,5	3	<i>Euphorbia pekinensis</i> root	euphorbiae pekinensis radix	京大戟	Jingdaji	Peking euphorbia root	x					x				
268	216,5	3	<i>Lobelia chinensis</i> herb	lobeliae chinensis herba	半边莲	Banbianlian	Chinese lobelia herb	x					x				
269	216,5	3	<i>Homalomena occulta</i> rhizome	homalomenae rhizoma	千年健	Qiannianjian	obscured homalomena rhizome	x					x				

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Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
270	216,5	3	<i>Glechoma longituba</i> herb	glechomae herba	连钱草	Lianqian-cao	longtube ground ivy herb	x					x		x		KHP: <i>Glechoma grandis</i> var. <i>longituba</i> herb
271	216,5	3	<i>Tamarix chinensis</i> twig and leaf	tamaricis caccumen	西河柳	Xiheliu	Chinese tamarisk twig	x					x		x		
272	216,5	3	processed <i>Rehmannia glutinosa</i> root	rehmanniae radix praeparata	熟地黄	Shudi-huang	prepared rehmannia root	x		x		x					
273	216,5	3	<i>Citrus reticulata</i> fruit	citri reticulatae pericarpium viride	青皮	Qingpi	green tangerine peel	x			x	x					Non-JPS, KP: <i>Citrus unshiu</i> fruit
274	216,5	3	<i>Arisaema erubescens</i> tuber/ <i>Arisaema heterophyllum</i> tuber/ <i>Arisaema amurense</i> tuber	arisaematis rhizoma	天南星	Tiannanxing	jackintheopit tuber	x			x	x					
275	216,5	3	<i>Prunus mume</i> fruit	mume fructus	乌梅	Wumei	smoked plum	x			x	x					
276	301	2	<i>Abelmoschus manihot</i> corolla	abelmoschi corolla	黄蜀葵花	Huang-shukuihua	^{sunset} abelmoschus flower	x	x								
277	301	2	<i>Euryale ferox</i> kernel	euryales semen	芡实	Qianshi	gordon euryale seed	x				x					
278	301	2	<i>Rhus chinensis</i> gall/ <i>Rhus potaninii</i> gall/ <i>Rhus punjabensis</i> var. <i>sinica</i> gall	galla chinensis	五倍子	Wubeizi	Chinese gall	x				x					KP: <i>Rhus javanica</i> gall
279	301	2	<i>Zanthoxylum nitidum</i> root	zanthoxyli radix	两面针	Liangmian-zhen	shinyleaf pricklyash root	x							x		

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Table 2 (continued)

No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
280	301	2	<i>Sarcandra glabra</i> herb	sarcandrae herba	肿节风	Zhong-jiefeng	glabrous sarcandra herb	x							x		
281	301	2	<i>Centipeda minima</i> herb	centipedae herba	鹅不食草	Ebushicao	small centipede herb	x							x		
282	301	2	<i>Pseudostellaria heterophylla</i> root	pseudostellariae radix	太子参	Taizishen	heterophylly falsestarwort root	x							x		
283	301	2	<i>Fritillaria ussuriensis</i> bulb/ <i>Fritillaria hupehensis</i> bulb/ <i>Fritillaria pallidiflora</i> bulb/ <i>Fritillaria walujewii</i> bulb	fritillariae ussuriensis bulbus/fritillariae hupehensis bulbus/fritillariae pallidiflorae bulbus	平贝母/湖北贝母/伊贝母	Ping-beimu/Hubeimu/Yibeimu	ussuri fritillary bulb/hubei fritillary bulb/sinkiang fritillary bulb	x							x		
284	301	2	<i>Trichosanthes kirilowii</i> pericarp/ <i>Trichosanthes rosthornii</i> pericarp	trichosanthis pericarpium	瓜蒌皮	Gualoupi	snakegourd peel	x							x		
285	301	2	<i>Oroxylum indicum</i> seed	oroxyli semen	木蝴蝶	Muhudie	Indian trumpetflower seed	x							x		
286	301	2	<i>Periploca sepium</i> root bark	periplocae cortex	香加皮	Xiangjiapi	Chinese silkvine root bark	x							x		
287	301	2	<i>Mahonia bealei</i> stem/ <i>Mahonia fortunei</i> stem	mahoniae caulis	功劳木	Gonglaomu	Chinese mahonia stem	x							x		
288	301	2	<i>Anemone raddeana</i> rhizome	anemones raddeanae rhizoma	两头尖	Liangtoujian	radde anemone rhizome	x							x		

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289	301	2	<i>Menispermum dauricum</i> rhizome	menispermum rhizoma	北豆根	Beidougen	asiatic moon-seed rhizome	x							x		
290	301	2	<i>Perilla frutescens</i> stem	perillae canlis	紫苏梗	Zisugeng	perilla stem	x							x		
291	301	2	<i>Ilex rotunda</i> bark	ilicis rotundae cortex	救必应	Jiubiying	ovateleaf holly bark	x							x		
292	301	2	<i>Datura metel</i> flower	daturae flos	洋金花	Yangjinhua	datura flower	x							x		
293	301	2	<i>Albizia julibrissin</i> inflorescence or flower bud	albiziae flos	合欢花	Hehuanhua	albizia flower	x							x		
294	301	2	<i>Tinospora sagittata</i> root tuber/ <i>Tinospora capillipes</i> root tuber	tinosporae radix	金果榄	Jingguolan	tinospora root	x							x		
295	301	2	<i>Ardisia crenata</i> root	ardisiae crenatae radix	朱砂根	Zhushagen	coral ardisia root	x							x		
296	301	2	<i>Corydalis decumbens</i> tuber	corydalis decumbentis rhizoma	夏天无	Xiatianwu	decumbent corydalis rhizome	x							x		
297	301	2	<i>Ilex cornuta</i> leaf	ilicis comutae folium	枸骨叶	Gouguye	Chinese holly leaf	x							x		
298	301	2	<i>Rhododendron molle</i> flower	rhododendri mollis flos	闹羊花	Naoyang-hua	yellow azalea flower	x							x		
299	301	2	<i>Pseudolarix amabilis</i> root bark	pseudolaricis cortex	土荆皮	Tujingpi	golden larch bark	x							x		
300	301	2	<i>Fibraurea recisa</i> stem	fibraureae caulis	黄藤	Huangteng	common fibraurea stem	x							x		

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Table 2 (continued)

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301	301	2	<i>Hyoscyamus niger</i> seed	hyoscyami semen	天仙子	Tianxianzi	henbane seed	x							x		
302	301	2	<i>Saussurea involuta</i> herb	saussureae involucratae herba	天山雪莲	Tianshanxuelian	snow lotus herb	x							x		
303	301	2	<i>Apocynum venetum</i> leaf	apocyni venetifolium	罗布麻叶	Luobumaye	dogbane leaf	x							x		
304	301	2	<i>Abrus cantoniensis</i> herb	abri herba	鸡骨草	Jigucao	canton love-pea vine	x							x		
305	301	2	<i>Bolbostemma paniculatum</i> tuber	bolbostemmatidis rhizoma	土贝母	Tubeimu	paniculate bolbostemma	x							x		
306	301	2	<i>Nelumbo nucifera</i> receptacle	nelumbinis receptaculum	莲房	Lianfang	lotus receptacle	x							x		
307	301	2	<i>Polygonum perforliatum</i> herb	polygoni perforliati herba	杠板归	Kangbanggui	polygonum herb	x							x		
308	301	2	<i>Rosa chinensis</i> flower	rosae chinensis flos	月季花	Yuejihua	Chinese rose flower	x							x		
309	301	2	<i>Solidago decurrens</i> herb	solidaginis herba	一枝黄花	Yizhihuanghua	common goldenrod herb	x							x		
310	301	2	<i>Brucea javanica</i> fruit	bruceae fructus	鸦胆子	Yadanzi	java brucea fruit	x							x		
311	301	2	<i>Panax ginseng</i> leaf	ginseng folium	人参叶	Renshenye	ginseng leaf	x							x		
312	301	2	<i>Euphorbia hirta</i> herb	euphorbiae hirtae herba	飞扬草	Feiyangcao	garden euphorbia herb	x							x		
313	301	2	<i>Semiaquilegia adoxoides</i> root tuber	semiaquilegiae radix	天葵子	Tiankuizi	musk-root-like semiaquilegia root	x							x		

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No.	Rank	Occurrences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non-JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
314	301	2	<i>Osmunda japonica</i> rhizome and frond bases	osmundae rhizoma	紫萁贯众	Ziqiguan-zhong	japanese osmunda rhizome	x							x		
315	301	2	<i>Raphanus sativus</i> seed	raphani semen	莱菔子	Laifuzi	radish seed	x				x					
316	301	2	<i>Sargentodoxa cuneata</i> lianoid stem	sargentodoxae caulis	大血藤	Daxueteng	sargentglo-ryvine stem	x							x		
317	301	2	<i>Rhododendron dauricum</i> leaf	rhododendri daurici folium	满山红	Manshan-hong	dahurian rhododendron leaf	x							x		
318	301	2	<i>Ardisia japonica</i> herb	ardisiae japonicae herba	矮地茶	Aidicha	japanese ardisia herb	x							x		
319	301	2	<i>Sedum sarmentosum</i> herb	sedi herba	垂盆草	Chuipan-cao	stringy stonecrop herb	x							x		
320	301	2	<i>Curcuma wenyujin</i> rhizome	wenyujin rhizoma concisum	片姜黄	Pianjiang-huang	wenyujin concise rhizome	x							x		
321	301	2	<i>Commelina communis</i> herb	commelinae herba	鸭跖草	Yazhicao	common day-flower herb	x							x		
322	301	2	<i>Corydalis bungeana</i> herb	corydalis bungeanae herba	苦地丁	Kudiding	bunge corydalis herb	x							x		
323	301	2	<i>Polygala japonica</i> herb	polygalae japonicae herba	瓜子金	Guazijin	japanese milkwort herb	x							x		
324	301	2	<i>Potentilla discolor</i> herb	potentillae discoloris herba	翻白草	Fanbaicao	discolor cinquefoil herb	x							x		
325	301	2	<i>Ranunculus ternatus</i> root tuber	ranunculi ternati radix	猫爪草	Maozhao-ca	catclaw buttercup root	x							x		

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Table 2 (continued)

No.	Rank	Occur- rences	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name	CHP ^a	EUP ^b	JP ^c	Non- JPS ^d	KP ^e	KHP ^f	THP ^g	HKS ^h	USP ⁱ	Note
326	301	2	<i>Bletilla striata</i> tuber	bletillae rhizoma	白及	Baiji	common bletilla tuber	x							x		
^a CHP stands for the <i>Pharmacopoeia of the People's Republic of China</i> , 2020 edition.																	
^b EUP stands for the <i>European Pharmacopoeia</i> , 10.7 th edition.																	
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6.3 Safety concerns

Table 3 shows a list of single herbal medicines, in the order of priority, for which safety concerns, including ADR, have been reported. Single herbal medicines which have greater safety concerns are listed as high priority.

Table 3 — Single herbal medicines with safety concerns

Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
1	<i>Aconitum kusnezoffii</i> root tuber	aconiti kusnezoffii radix	草乌	Caowu	kusnezoff monkshood root
2	<i>Aconitum carmichaelii</i> parent root tuber	aconiti radix	川乌	Chuanwu	common monkshood mother root
3	<i>Croton tiglium</i> fruit	crotonis fructus	巴豆	Badou	croton fruit
4	processed <i>Croton tiglium</i> defatted seed	crotonis semen pulveratum	巴豆霜	Badoushuang	defatted croton seed powder
5	<i>Strychnos nux-vomica</i> seed	strychni semen	马钱子	Maqianzi	nux vomica
6	<i>Hyoscyamus niger</i> seed	hyoscyami semen	天仙子	Tianxianzi	henbane seed
7	<i>Rhododendron molle</i> flower	rhododendri mollis flos	闹羊花	Naoyanghua	yellow azalea flower
8	<i>Aristolochia contorta</i> fruit/ <i>Aristolochia debilis</i> fruit	aristolochiae fructus	马兜铃	Madouling	Dutchman's pipe fruit
9	<i>Aristolochia debilis</i> herb/ <i>Aristolochia contorta</i> herb	aristolochiae herba	天仙藤	Tianxianteng	Dutchman's pipe vine
10	<i>Euphorbia ebracteolata</i> root/ <i>Euphorbia fischeriana</i> root	euphorbiae ebracteolatae radix	狼毒	Langdu	bracteole-lacked euphorbia root
11	<i>Pseudolarix amabilis</i> root bark	pseudolaricis cortex	土荆皮	Tujingpi	golden larch bark
12	<i>Physochlaina infundibularis</i> root	physochlainae radix	华山参	Huashanshen	funneled physochlaina root
13	<i>Datura metel</i> flower	daturae flos	洋金花	Yangjinhua	datura flower
14	processed <i>Euphorbia lathyris</i> seed	euphorbiae semen pulveratum	千金子霜	Qianjinzishuang	caper euphorbia seed powder
15	<i>Momordica cochinchinensis</i> seed	momordicae semen	木鳖子	Mubiezi	cochinchina momordica seed
16	<i>Euphorbia kansui</i> tuber root	kansui radix	甘遂	Gansui	gansui root
17	<i>Euphorbia lathyris</i> seed	euphorbiae semen	千金子	Qianjinzi	caper euphorbia seed
18	<i>Daphne genkwa</i> flower bud	genkwa flos	芫花	Yuanhua	lilac daphne flower bud
19	<i>Anemone raddeana</i> rhizome	anemones raddeanae rhizoma	两头尖	Liangtoujian	radde anemone rhizome
20	<i>Euphorbia pekinensis</i> root	euphorbiae pekinensis radix	京大戟	Jingdaji	Peking euphorbia root
21	processed <i>Aconitum carmichaelii</i> parent root tuber	aconiti radix cocta	制川乌	Zhichuanwu	prepared common monkshood mother root
22	processed <i>Aconitum kusnezoffii</i> root tuber	aconiti kusnezoffii radix cocta	制草乌	Zhicaowu	prepared kusnezoff monkshood root

Table 3 (continued)

Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
23	<i>Tripterygium wilfordii</i> root	tripterygii wilfordii radix	雷公藤	Leigongteng	tripterygii wilfordii root
24	<i>Toxicodendron vernicifluum</i> resin	toxicodendri resina	干漆	Ganqi	dried lacquer
25	<i>Ricinus communis</i> seed	ricini semen	蓖麻子	Bimazi	castor seed
26	<i>Pharbitis nil</i> seed/ <i>pharbitis purpurea</i> seed	pharbitidis semen	牵牛子	Qianniuzi	pharbitis seed
27	<i>Papaver somniferum</i> pericarp	papaveris pericarpium	罂粟壳	Yingsuqiao	poppy capsule
28	<i>Typhonium giganteum</i> rhizome	typhonii rhizoma	白附子	Baifuzi	giant typhonium rhizome
29	<i>Sophora tonkinensis</i> root and rhizome	sophorae tonkinensis radix et rhizoma	山豆根	Shandougen	Vietnamese sophora root
30	<i>Periploca sepium</i> root bark	periplocae cortex	香加皮	Xiangjiapi	Chinese silkvine root bark
31	<i>Melia toosendan</i> stem bark or root bark/ <i>Melia azedarach</i> stem bark or root bark	meliae cortex	苦楝皮	Kulianpi	Szechwan chinaberry bark
32	<i>Phytolacca acinosa</i> root/ <i>Phytolacca Americana</i> root	phytolaccae radix	商陆	Shanglu	pokeberry root
33	<i>Arisaema erubescens</i> tuber/ <i>Arisaema heterophyllum</i> tuber/ <i>Arisaema amurense</i> tuber	arisaematis rhizoma	天南星	Tiannanxing	jackinthepulpit tuber
34	processed <i>Arisaema erubescens</i> tuber/processed <i>Arisaema heterophyllum</i> tuber/processed <i>Arisaema amurense</i> tuber	arisaematis rhizoma praeparatum	制天南星	Zhitiannanxing	prepared jackinthepulpit tuber
35	<i>Dichroa febrifuga</i> root	dichroae radix	常山	Changshan	antifeverile dichroa root
36	<i>Pinellia ternata</i> tuber	pinelliae rhizoma	半夏	Banxia	pinellia tuber
37	<i>Curculigo orchoides</i> rhizome	curculiginis rhizoma	仙茅	Xianmao	common curculigo rhizome
38	<i>Ginkgo biloba</i> seed	ginkgo semen	白果	Baiguo	ginkgo seed
39	<i>Xanthium sibiricum</i> fruit	xanthii fructus	苍耳子	Cangerzi	Siberian cocklebur fruit
40	<i>Cremastra appendiculata</i> pseudobulb/ <i>Pleione bulbocodioides</i> pseudobulb/ <i>Pleione yunnanensis</i> pseudobulb	cremastrae pseudobulbus/pleiones pseudobulbus	山慈菇	Shancigu	appendiculate cremastra pseudobulb/common pleione pseudobulb
41	processed <i>Aconitum carmichaelii</i> daughter root	aconiti lateralis radix praeparata	附子	Fuzi	prepared common monkshood daughter root
42	<i>Berberis soulieana</i> root/ <i>Berberis wilsonae</i> root/ <i>Berberis poiretii</i> root/ <i>Berberis verna</i> root	berberidis radix	三颗针	Sankezhen	barberry radix
43	<i>Laggyra pterodonta</i> herb	laggyrae herba	臭灵丹草	Choulingdancao	wingedtooth laggyra leaf
44	<i>Chelidonium majus</i> herb	chelidonii herba	白屈菜	Baiqucai	greater celandine herb

Table 3 (continued)

Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
45	<i>Psammosilene tunicoides</i> root	psammosilenes radix	金铁锁	Jintiesuo	tuniclike psammosilene root
46	<i>Aconitum kusnezoffii</i> leaf	aconiti kusnezoffii folium	草乌叶	Caowuye	kusnezoff monkshood leaf
47	<i>Gleditsia sinensis</i> fruit	gleditsiae fructus abnormaliz	猪牙皂	Zhuyazao	Chinese honeylocust abnormal fruit
48	<i>Gleditsia sinensis</i> fruit	gleditsiae sinensis fructus	大皂角	Dazaojiao	big gleditsia
49	<i>Brucea javanica</i> fruit	bruceae fructus	鸦胆子	Yadanzi	java brucea fruit
50	<i>Knoxia valerianoides</i> root	knoxiae radix	红大戟	Hongdaji	knoxia root
51	<i>Pterocephalus hookeri</i> herb	pterocephali herba	翼首草	Yishoucao	hooker winghead herb
52	<i>Impatiens balsamina</i> seed	impatiensis semen	急性子	Jixingzi	garden balsam seed
53	<i>Picrasma quassioides</i> branch and leaf	picrasmae ramulus et folium	苦木	Kumu	Indian quassia wood
54	<i>Euodia rutaecarpa</i> fruit/ <i>Euodia rutaecarpa</i> var. <i>officinalis</i> fruit/ <i>Euodia</i> <i>rutaecarpa</i> var. <i>bodinieri</i> fruit	euodiae fructus	吴茱萸	Wuzhuyu	evodia fruit
55	<i>Erycibe obtusifolia</i> stem/ <i>Erycibe schmidtii</i> stem	erycibes caulis	丁公藤	Dinggongteng	obtuseleaf erycibe stem
56	<i>Euphorbia hirta</i> herb	euphorbiae hirtae herba	飞扬草	Feiyangcao	garden euphorbia herb
57	<i>Artemisia argyi</i> leaf	artemisiae argyi folium	艾叶	Aiye	argy wormwood leaf
58	<i>Sinapis alba</i> seed/ <i>Brassica juncea</i> seed	sinapis semen/ brassicae semen	芥子	Jiezi	mustard seed
59	<i>Melia toosendan</i> fruit	toosendan fructus	川楝子	Chuanlianzi	Szechwan chinaberry fruit
60	<i>Osmunda japonica</i> rhizome and frond bases	osmundae rhizoma	紫萁贯众	Ziqiguanzhong	Japanese osmunda rhizome
61	<i>Dryopteris crassirhizoma</i> rhizome and frond	dryopteridis crassirhizomatis rhizoma	绵马贯众	Mianmaguanzhong	male fern rhizome
62	<i>Paris polyphylla</i> var. <i>yunnanensis</i> rhizome/ <i>Paris polyphylla</i> var. <i>chinensis</i> rhizome	paridis rhizoma	重楼	Chonglou	Paris rhizome
63	<i>Podophyllum hexandrum</i> fruit	sinopodophyll fructus	小叶莲	Xiaoyelian	common sinopodophyllum fruit
64	<i>Menispermum dauricum</i> rhizome	menispermi rhizoma	北豆根	Beidougen	asiatic moonseed rhizome
65	<i>Illicium difengpi</i> bark	illicii cortex	地枫皮	Difengpi	difengpi bark
66	<i>Daucus carota</i> fruit	carotae fructus	南鹤虱	Nanheshi	wild carrot fruit
67	<i>Carpesium abrotanoides</i> fruit	carpesii fructus	鹤虱	Heshi	common carpesium fruit
68	<i>Prunus armeniaca</i> var. <i>ansu</i> seed/ <i>Prunus sibirica</i> seed/ <i>Prunus mandshurica</i> seed/ <i>Prunus armeniaca</i> seed	armeniacaese semen amarum	苦杏仁	Kuxingren	bitter apricot seed

Table 3 (continued)

Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
69	<i>Zanthoxylum nitidum</i> root	zanthoxyli radix	两面针	Liangmianzhen	shinyleaf pricklyash root
70	<i>Cnidium monnieri</i> fruit	cnidii fructus	蛇床子	Shechuangzi	common cnidium fruit
71	<i>Tribulus terrestris</i> fruit	tribuli fructus	蒺藜	Jili	puncturevine caltrop fruit
72	<i>Murraya exotica</i> leaf and foliferous branch/ <i>Murraya paniculata</i> leaf and foliferous branch	murrayae folium et cacumen	九里香	Jiulixiang	murraya jasminorage
73	<i>Daemonorops draco</i> fruit resin	draconis sanguis	血竭	Xuejie	dragon's blood
74	processed <i>Baphicacanthus cusia</i> powder/processed <i>Polygonum tinctorium</i> powder/processed <i>Isatis indigotica</i> powder	indigo naturalis	青黛	Qingdai	natural indigo
75	<i>Asarum heterotropoides</i> var. <i>mandshuricum</i> root and rhizome/ <i>Asarum sieboldii</i> var. <i>seoulense</i> root and rhizome/ <i>Asarum sieboldii</i> root and rhizome	asari radix et rhizoma	细辛	Xixin	Manchurian wildginger root
76	<i>Cinnamomum cassia</i> bark	cinnamomi cortex	肉桂	Rougui	cassia bark
77	<i>Aquilaria sinensis</i> resin	aquilariae lignum resinatum	沉香	Chenxiang	Chinese eaglewood wood
78	<i>Coptis chinensis</i> rhizome/ <i>Coptis deltoidea</i> rhizome/ <i>Coptis teeta</i> rhizome	coptidis rhizoma	黄连	Huanglian	golden thread
79	<i>Aloe barbadensis</i> juice/ <i>Aloe ferox</i> juice	aloe	芦荟	Luhui	aloes
80	<i>Commiphora myrrha</i> resin/ <i>Commiphora mol-mol</i> resin	myrrha	没药	Moyao	myrrh
81	<i>Boswellia carterii</i> resin/ <i>Boswellia bhawdajiana</i> resin	olibanum	乳香	Ruxiang	olibanum
82	<i>Mentha haplocalyx</i> herb	menthae haplocalycis herba	薄荷	Bohe	peppermint
83	<i>Cassia angustifolia</i> leaf/ <i>Cassia acutifolia</i> leaf	sennae folium	番泻叶	Fanxieye	senna leaf
84	<i>Polygonum multiflorum</i> root tuber	polygoni multiflori radix	何首乌	Heshouwu	fleeceflower root
85	<i>Gentiana manshurica</i> root and rhizome/ <i>Gentiana scabra</i> root and rhizome/ <i>Gentiana triflora</i> root and rhizome/ <i>Gentiana rigescens</i> root and rhizome	gentianae radix et rhizoma	龙胆	Longdan	Chinese gentian
86	<i>Lasiosphaera fenzi</i> sporophore/ <i>Calvatia gigantea</i> sporophore/ <i>Calvatia lilacina</i> sporophore	lasiosphaera/calvatia	马勃	Mabo	puff-ball

Table 3 (continued)

Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
87	<i>Akebia quinata</i> stem/ <i>Akebia trifoliata</i> stem/ <i>Akebia trifoliata</i> . var. <i>australis</i> stem	akebiae caulis	木通	Mutong	akebia stem
88	<i>Saussurea involucrata</i> herb	saussureae involucratae herba	天山雪莲	Tianshanxuelian	snow lotus herb
89	<i>Rhus chinensis</i> gall/ <i>Rhus potaninii</i> gall/ <i>Rhus punjabensis</i> . var. <i>sinica</i> gall	galla chinensis	五倍子	Wubeizi	Chinese gall
90	<i>Schisandra chinensis</i> fruit/ <i>Schisandra sphenanthera</i> fruit	schisandrae chinensis fructus/ schisandrae sphenantherae fructus	五味子/南五味子	Wuweizi/Nanwuweizi	Chinese magnoliavine fruit/ southern magnoliavine fruit
91	<i>Panax quinquefolium</i> root	panacis quinquefolii radix	西洋参	Xiyangshen	American ginseng
92	<i>Stemona sessilifolia</i> root/ <i>Stemona japonica</i> root/ <i>Stemona tuberosa</i> root	stemonae radix	百部	Baibu	stemona root
93	<i>Cordyceps sinensis</i> stroma	cordyceps	冬虫夏草	Dongchongxiacao	Chinese caterpillar fungus
94	<i>Curcuma phaeocaulis</i> rhizome/ <i>Curcuma kwangsiensis</i> rhizome/ <i>Curcuma wenyujin</i> rhizome	curcumae rhizoma	莪术	Ezhu	zedoray/zedoary rhizome
95	<i>Spirodela polyrrhiza</i> herb	spirodelae herba	浮萍	Fuping	common ducksmeat herb
96	<i>Sophora flavescens</i> root	sophorae flavescens radix	苦参	Kushen	sophora root
97	<i>Rhaponticum uniflorum</i> root	rhapontici radix	漏芦	Loulu	uniflower swisscentaury root
98	<i>Ephedra sinica</i> stem/ <i>Ephedra intermedia</i> stem/ <i>Ephedra equisetina</i> stem	ephedrae herba	麻黄	Mahuang	ephedra
99	<i>Panax ginseng</i> root and rhizome	ginseng radix et rhizoma	人参	Renshen	ginseng
100	<i>Panax notoginseng</i> root and rhizome	notoginseng radix et rhizoma	三七	Sanqi	sanchi
101	<i>Punica granatum</i> pericarp	granati pericarpium	石榴皮	Shiliupi	pomegranate rind
102	<i>Ampelopsis japonica</i> root tuber	ampelopsis radix	白藜	Bailian	Japanese ampelopsis root
103	<i>Angelica dahurica</i> root/ <i>Angelica dahurica</i> var. <i>formosana</i> root	angelicae dahuricae radix	白芷	Baizhi	dahurian angelica root
104	<i>Fritillaria cirrhosa</i> bulb/ <i>Fritillaria unibracteata</i> bulb/ <i>Fritillaria przewalskii</i> bulb/ <i>Fritillaria delavayi</i> bulb/ <i>Fritillaria taipaiensis</i> bulb/ <i>Fritillaria unibracteata</i> var. <i>wabuensis</i> bulb	fritillariae cirrhosae bulbus	川贝母	Chuanbeimu	tendrilleaf fritillary bulb
105	<i>Areca catechu</i> seed	arecae semen	槟榔	Binglang	areca seed

Table 3 (continued)

Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
106	<i>Psoralea corylifolia</i> fruit	psoraleae fructus	补骨脂	Buguzhi	malaytea scurfpea fruit
107	<i>Fritillaria thunbergii</i> bulb	fritillariae thunbergii bulbus	浙贝母	Zhebeimu	thunberg fritillary bulb
108	<i>Bupleurum chinense</i> root/ <i>Bupleurum scorzonerifolium</i> root	bupleuri radix	柴胡	Chaihu	Chinese thoroughwort root
109	<i>Leonurus japonicus</i> fruit	leonuri fructus	茺蔚子	Chongweizi	motherwort fruit
110	<i>Ligusticum chuanxiong</i> rhizome	chuanxiong rhizoma	川芎	Chuanxiong	Szechwan lovage rhizome
111	<i>Eucommia ulmoides</i> bark	eucommiae cortex	杜仲	Duzhong	eucommia bark
112	<i>Saposhnikovia divaricata</i> root	saposhnikoviae radix	防风	Fangfeng	divaricate saposhnikovia root
113	<i>Glycyrrhiza uralensis</i> root and rhizome/ <i>Glycyrrhiza inflata</i> root and rhizome/ <i>Glycyrrhiza glabra</i> root and rhizome	glycyrrhizae radix et rhizoma	甘草	Gancao	licorice root
114	<i>Ligusticum sinense</i> rhizome and root/ <i>Ligusticum jeholense</i> rhizome and root	ligustici rhizoma et radix	藁本	Gaoben	Chinese lovage
115	<i>Cinnamomum cassia</i> branch	cinnamomi ramulus	桂枝	Guizhi	cassia twig
116	<i>Carthamus tinctorius</i> flower	carthami flos	红花	Honghua	safflower
117	<i>Scutellaria baicalensis</i> root	scutellariae radix	黄芩	Huangqin	baical skullcap root
118	<i>Schizonepeta tenuifolia</i> herb	schizonepetae herba	荆芥	Jingjie	fineleaf schizonepeta herb
119	<i>Platycodon grandiflorum</i> root	platycodonis radix	桔梗	Jiegeng	platycodon root
120	<i>Tussilago farfara</i> flower bud	farfarae flos	款冬花	Kuandonghua	common coltsfoot flower
121	<i>Liquidambar formosana</i> infructescences	liquidambaris fructus	路路通	Lulutong	beautiful sweetgum fruit
122	<i>Eriobotrya japonica</i> leaf	eriobotryae folium	枇杷叶	Pipaye	loquat leaf
123	<i>Typha angustifolia</i> pollen/ <i>Typha orientalis</i> pollen	typhae pollen	蒲黄	Puhuang	cattail pollen
124	<i>Notopterygium incisum</i> rhizome and root/ <i>Notopterygium franchetii</i> rhizome and root	notopterygii rhizoma et radix	羌活	Qianghuo	incised notopterygium rhizome or root
125	<i>Polygonum bistorta</i> rhizome	bistortae rhizoma	拳参	Quanshen	bistort rhizome
126	<i>Cistanche deserticola</i> fleshy stem / <i>Cistanche tubulosa</i> fleshy stem	cistanches herba	肉苁蓉	Roucongrong	desertliving cistanche
127	<i>Sparganium stoloniferum</i> tuber rhizome	sparganii rhizoma	三棱	Sanleng	common burreed tuber

Table 3 (continued)

Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
128	<i>Belamcanda chinensis</i> rhizome	belamcandae rhizoma	射干	Shegan	black berrylilyrhizome
129	<i>Cimicifuga heracleifolia</i> rhizome/ <i>Cimicifuga dahurica</i> rhizome/ <i>Cimicifuga foetida</i> rhizome	cimicifugae rhizoma	升麻	Shengma	largetrifoliolious bugbane rhizome
130	<i>Acorus tatarinowii</i> rhizome/ <i>Acorus calamus</i> rhizome	acori tatarinowii rhizoma/acori calami rhizoma	石菖蒲/藏菖蒲	Shichangpu/Zangchangpu	grassleaf sweetflag rhizome/tibet sweetflag rhizome
131	<i>Prunus persica</i> seed/ <i>Prunus davidiana</i> seed	persicae semen	桃仁	Taoren	peach seed
132	<i>Gastrodia elata</i> tuber	gastrodiae rhizoma	天麻	Tianma	tall gastrodia tuber
133	<i>Descurainia sophia</i> seed/ <i>Lepidium apetalum</i> seed	descurainiae semen/lepidii semen	葶苈子	Tinglizi	pepperweed seed/tansy-mustard seed
134	<i>Clematis chinensis</i> root and rhizome/ <i>Clematis hexapetala</i> root and rhizome/ <i>Clematis manshurica</i> root and rhizome	clematidis radix et rhizoma	威灵仙	Weilingxian	Chinese clematis root
135	<i>Magnolia biondii</i> flower bud / <i>Magnolia denudata</i> flower bud / <i>Magnolia sprengeri</i> flower bud	magnoliae flos	辛夷	Xinyi	biond magnolia flower
136	<i>Corydalis yanhusuo</i> tuber	corydalis rhizoma	延胡索	Yanhusuo	yanhusuo
137	<i>Alpinia oxyphylla</i> fruit	alpiniae oxyphyllae fructus	益智	Yizhi	sharp leaf glangal fruit
138	<i>Epimedium brevicornu</i> leaf/ <i>Epimedium sagittatum</i> leaf/ <i>Epimedium pubesce</i> ns leaf/ <i>Epimedium koreanum</i> leaf	epimedii folium	淫羊藿	Yinyanghuo	epimedium leaf
139	<i>Curcuma wenyujin</i> tuber/ <i>Curcuma longa</i> tuber/ <i>Curcuma kwangsiensis</i> tuber/ <i>Curcuma kwangsiensis</i> tuber	curcumae radix	郁金	Yujin	turmeric root tuber
140	<i>Polygala tenuifolia</i> root/ <i>Polygala sibirica</i> root	polygalae radix	远志	Yuanzhi	thin leaf milkwort root
141	<i>Gardenia jasminoides</i> fruit	gardeniae fructus	梔子	Zhizi	cape jasmine fruit
142	<i>Perilla frutescens</i> stem	perillae caulis	紫苏梗	Zisugeng	perilla stem
143	<i>Perilla frutescens</i> leaf	perillae folium	紫苏叶	Zisuye	perilla leaf
144	<i>Atractylodes macrocephala</i> rhizome	atractylodis macrocephalae rhizoma	白术	Baizhu	large head atractylodes rhizome
145	<i>Platycladus orientalis</i> twig and leaf	platycladi cacumen	侧柏叶	Cebaiye	Chinese arborvitae twig and leaf
146	<i>Paeonia lactiflora</i> root/ <i>Paeonia veitchii</i> root	paeoniae radix rubra	赤芍	Chishao	red peony root

Table 3 (continued)

Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
147	<i>Angelica sinensis</i> root	angelicae sinensis radix	当归	Danggui	Chinese angelica
148	<i>Sargassum pallidum</i> alga/ <i>Sargassum fusiforme</i> alga	sargassum	海藻	Haizao	seaweed
149	<i>Laminaria japonica</i> thalline/ <i>Ecklonia kurome</i> thalline	laminariae thallus/ eckloniae thallus	昆布	kunbu	kelp/tangle
150	<i>Apocynum venetum</i> leaf	apocyni veneti folium	罗布麻叶	Luobumaye	dogbane leaf
151	<i>Arctium lappa</i> fruit	arctii fructus	牛蒡子	Niubangzi	great burdock achene
152	<i>Sinomenium acuturn</i> stem/ <i>Sinomenium acutum</i> var. <i>cinereum</i> stem	sinomenii caulis	青风藤	Qingfengteng	orientvine stem
153	<i>Crataegus pinnatifida</i> var. <i>major</i> fruit/ <i>Crataegus pinnatifida</i> fruit	crataegi fructus	山楂	Shanzha	hawthorn fruit
154	<i>Quisqualis indica</i> fruit	quisqualis fructus	使君子	Shijunzi	rangooncreeper fruit
155	<i>Cuscuta australis</i> seed/ <i>Cuscuta chinensis</i> seed	cuscutae semen	菟丝子	Tusizi	dodder seed
156	<i>Anemarrhena asphodeloides</i> rhizome	anemarrhenae rhizoma	知母	Zhimu	common anemarrhena rhizome
157	<i>Dolichos lablab</i> seed	lablab semen album	白扁豆	Baibiandou	white hyacinth bean
158	<i>Bletilla striata</i> tuber	bletillae rhizoma	白及	Baiji	common bletilla tuber
159	<i>Paeonia lactiflora</i> root	paeoniae radix alba	白芍	Baishao	white peony root
160	<i>Pulsatilla chinensis</i> root	pulsatillae radix	白头翁	Baitouweng	Chinese pulsatilla root
161	<i>Isatis indigotica</i> root/ <i>Baphicacanthus cusia</i> rhizome and root	isatidis radix/ baphicacanthis cusiae rhizoma et radix	板蓝根/南板蓝根	Banlangen/ Nanbanlangen	isatis root/baphicacanthus root
162	<i>Rheum palmatum</i> root and rhizome/ <i>Rheum tanguticum</i> root and rhizome/ <i>Rheum officinale</i> root and rhizome	rhei radix et rhizoma	大黄	Dahuang	rhubarb
163	<i>Ziziphus jujuba</i> fruit	jujubae fructus	大枣	Dazao	Chinese date
164	<i>Salvia miltiorrhiza</i> root and rhizome	salviae miltiorrhizae radix and rhizoma	丹参	Danshen	danshen root
165	<i>Sanguisorba officinalis</i> root/ <i>Sanguisorba officinalis</i> var. <i>longifolia</i> root	sanguisorbae radix	地榆	Diyu	garden burnet root
166	<i>Pueraria lobata</i> root	puerariae lobatae radix	葛根	Gegen	kudzu vine root
167	<i>Trichosanthes kirilowii</i> fruit/ <i>Trichosanthes rosthornii</i> fruit	trichosanthis fructus	瓜蒌	Gualou	snakegourd fruit
168	processed <i>Rehmannia glutinosa</i> root	rehmanniae radix praeparata	熟地黄	Shudihuang	prepared rehmannia root

Table 3 (continued)

Rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
169	<i>Ziziphus jujuba</i> var. <i>spinosa</i> seed	ziziphi spinosae semen	酸枣仁	Suanzaoren	spine date seed
170	<i>Trichosanthes kirilowii</i> root/ <i>Trichosanthes rosthornii</i> root	trichosanthis radix	天花粉	Tianhuafen	snakegourd root
171	<i>Semiaquilegia adoxoides</i> root tuber	semiaquilegiae radix	天葵子	Tiankuizi	muskroot-like semiaquilegia root
172	<i>Scrophularia ningpoensis</i> root	scrophulariae radix	玄参	Xuanshen	figwort root
173	<i>Senecio scandens</i> herb	senecionis scandentis herba	千里光	Qianliguang	climbing groundsel herb
174	<i>Astragalus membranaceus</i> var. <i>mongholicus</i> root/ <i>Astragalus membranaceus</i> root	astragali radix	黄芪	Huangqi	milkvetch root
175	<i>Saururus chinensis</i> herb	saururi herba	三白草	Sanbaicao	Chinese lizardtail herb
176	<i>Dioscorea opposita</i> rhizome	dioscoreae rhizoma	山药	Shanyao	common yam rhizome
177	<i>Leonurus japonicus</i> herb	leonuri herba	益母草	Yimucao	motherwort herb
178	<i>Lysimachia christinae</i> herb/ <i>Desmodium styracifolium</i> herb	lysimachiae herba/desmodii styracifolii herba	金钱草/广金钱草	Jinqiancao/ Guangjinqiancao	christina loosestrife/snow-bellleaf tickclover herb

6.4 The use frequency of single herbal medicines in formula recorded in Pharmacopoeias and national formula

In total, there are 353 kinds of single herbal medicines recorded in formula included in the *Pharmacopoeia of the People's Republic of China* (2020 edition), the *Japanese Pharmacopoeia* (18th edition), the *Approval Standards for OTC Kampo Products* (Japan, 2012 edition), the *Korean Pharmacopoeia* (12th edition), *Korean Medicine Health Insurance Standard Formula* (Notice by Ministry of Health and Welfare), *Korean Herbal Pharmacopoeia* (4th edition), *Guidelines for herbal medicine preparation* (Korea, Notice by Ministry of Health and Welfare), *Pharmacopoeia of Democratic People's Republic of Korea* (8th edition), *Taiwan Herbal Pharmacopoeia* (3rd edition) and *Chinese Patent Medicines Listed in Hong Kong* (as of September 5, 2022) (see Table 4).

Table 4 — The use frequency of single herbal medicines in formula recorded in Pharmacopoeias and national formula

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
1	1	1 950	<i>Glycyrrhiza uralensis</i> root and rhizome/ <i>Glycyrrhiza inflata</i> root and rhizome/ <i>Glycyrrhiza glabra</i> root and rhizome	glycyrrhizae radix et rhizoma	甘草	Gancao	licorice root
2	2	1 165	<i>Poria cocos</i> sclerotium	poria	茯苓	Fuling	Indian bread
3	3	1 107	<i>Angelica sinensis</i> root	angelicae sinensis radix	当归	Danggui	Chinese angelica
4	4	820	<i>Scutellaria baicalensis</i> root	scutellariae radix	黄芩	Huangqin	baical skullcap root
5	5	771	<i>Paeonia lactiflora</i> root	paeoniae radix alba	白芍	Baishao	white peony root

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
6	6	768	<i>Ligusticum chuanxiong</i> rhizome	chuanxiong rhizoma	川芎	Chuanxiong	Szechwan lovage rhizome
7	7	724	<i>Cinnamomum cassia</i> bark	cinnamomi cortex	肉桂	Rougui	cassia bark
8	8	675	<i>Panax ginseng</i> root and rhizome	ginseng radix et rhizoma	人参	Renshen	ginseng
9	9	666	<i>Citrus reticulata</i> pericarp	citri reticulatae pericarpium	陈皮	Chenpi	dried tangerine peel
10	10	663	<i>Atractylodes macrocephala</i> rhizome	atractylodis macrocephalae rhizoma	白术	Baizhu	largehead atractylodes rhizome
11	11	624	<i>Platycodon grandiflorum</i> root	platycodonis radix	桔梗	Jiegeng	platycodon root
12	12	604	<i>Paeonia lactiflora</i> root/ <i>Paeonia veitchii</i> root	paeoniae radix rubra	赤芍	Chishao	red peony root
13	13	589	<i>Astragalus membranaceus</i> var. <i>mongholicus</i> root/ <i>Astragalus membranaceus</i> root	astragli radix	黄芪	Huangqi	milkvetch root
14	14	566	<i>Pinellia ternata</i> tuber	pinelliae rhizoma	半夏	Banxia	pinellia tuber
15	15	556	<i>Rheum palmatum</i> root and rhizome/ <i>Rheum tanguticum</i> root and rhizome/ <i>Rheum officinale</i> root and rhizome	rhei radix et rhizoma	大黄	Dahuang	rhubarb
16	16	497	<i>Mentha haplocalyx</i> herb	menthae haplocalycis herb	薄荷	Bohe	peppermint
17	17	465	<i>Angelica dahurica</i> root/ <i>Angelica dahurica</i> var. <i>formosana</i> root	angelicae dahuricae radix	白芷	Baizhi	dahurian angelica root
18	18	463	<i>Ziziphus jujuba</i> fruit	jujubae fructus	大枣	Dazao	Chinese date
19	19	462	processed <i>Rehmannia glutinosa</i> root	rehmanniae radix praeparata	熟地黄	Shudihuang	prepared rehmannia root
20	20	458	<i>Saposhnikovia divaricata</i> root	saposhnikoviae radix	防风	Fangfeng	divaricate saposhnikovia root
21	21	457	<i>Bupleurum chinense</i> root/ <i>Bupleurum scorzonnerifolium</i> root	bupleuri radix	柴胡	Chaihu	Chinese thorowax root
22	22	450	<i>Rehmannia glutinosa</i> root	rehmanniae radix	地黄	Dihuang	rehmannia root
23	23	444	<i>Salvia miltiorrhiza</i> root and rhizome	salviae miltiorrhizae radix et rhizoma	丹参	Danshen	danshen root
24	24	436	<i>Panax notoginseng</i> root and rhizome	notoginseng radix et rhizoma	三七	Sanqi	sanchi
25	25	432	<i>Atractylodes lancea</i> rhizome/ <i>Atractylodes chinensis</i> rhizome	atractylodis rhizoma	苍术	Cangzhu	atractylodes rhizome

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
26	26	423	<i>Boswellia carterii</i> resin/ <i>Boswellia bhawdajiana</i> resin	olibanum	乳香	Ruxiang	olibanum
27	27	420	<i>Carthamus tinctorius</i> flower	carthami flos	红花	Honghua	safflower
28	28	419	<i>Coptis chinensis</i> rhizome/ <i>Coptis deltoidea</i> rhizome/ <i>Coptis teeta</i> rhizome	coptidis rhizoma	黄连	Huanglian	golden thread
29	29	392	<i>Ophiopogon japonicus</i> root tuber/ <i>Liriope muscari</i> root/ <i>Liriope spicata</i> var. <i>prolifera</i> root	ophiopogonis radix/ liriope radix	麦冬/山麦冬	Maidong/ Shanmaidong	dwarf lilyturf tuber/ liriope root tuber
30	30	378	<i>Gardenia jasminoides</i> fruit	gardeniae fructus	梔子	Zhizi	cape jasmine fruit
31	31	344	<i>Commiphora molmol</i> resin/ <i>Commiphora myrrha</i> resin	myrrha	没药	Moyao	myrrh
32	32	338	<i>Forsythia suspensa</i> fruit	forsythiae fructus	连翘	Lianqiao	weeping forsythia capsule
33	33	314	<i>Crataegus pinnatifida</i> var. <i>major</i> fruit/ <i>Crataegus pinnatifida</i> fruit	crataegi fructus	山楂	Shanzha	hawthorn fruit
34	34,5	309	<i>Schisandra chinensis</i> fruit/ <i>Schisandra sphenanthera</i> fruit	schisandrae chinensis fructus/ schisandrae sphenantherae fructus	五味子/南五味子	Wuweizi/ Nanwuweizi	Chinese magnoliavine fruit/ southern magnoliavine fruit
35	34,5	309	<i>Dioscorea opposita</i> rhizome	dioscoreae rhizoma	山药	Shanyao	common yam rhizome
36	36	307	<i>Prunus armeniaca</i> var. <i>ansu</i> seed/ <i>Prunus sibirica</i> seed/ <i>Prunus mandshurica</i> seed/ <i>Prunus armeniaca</i> seed	armeniaceae semen amarum	苦杏仁	Kuxingren	bitter apricot seed
37	37,5	306	<i>Notopterygium incisum</i> rhizome and root/ <i>Notopterygium franchetii</i> rhizome and root	notopterygii rhizoma et radix	羌活	Qianghuo	incised notopterygium rhizome or root
38	37,5	306	<i>Achyranthes bidentata</i> root/ <i>Cyathula officinalis</i> root	achyranthis bidentatae radix/ cyathulae radix	牛膝/川牛膝	Niuxi/ Chuannixi	twotoothed achyranthes root/ medicinal cyathula root
39	39	300	<i>Magnolia officinalis</i> bark/ <i>Magnolia officinalis</i> var. <i>biloba</i> bark	magnoliae officinalis cortex	厚朴	Houpo	officinal magnolia bark
40	40	299	<i>Aucklandia lappa</i> root/ <i>Inula helenium</i> root/ <i>Vladimiria souliei</i> root/ <i>Vladimiria souliei</i> var. <i>cinerea</i> root	aucklandiae radix/ inulae radix/ vladimiriae radix	木香/土木香/川木香	Muxiang/ Tumuxiang/ Chuangmuxiang	common aucklandia root/ inula root/ common vladimiria root
41	41	287	<i>Pogostemon cablin</i> herb/ <i>Agastache rugosa</i> herb	pogostemonis herba/ agastachis herba	广藿香/藿香	Guanghuoxiang/ Huoxiang	cablin patchouli herb/ agastache herb
42	42	283	<i>Cinnamomum cassia</i> branch	cinnamomi ramulus	桂枝	Guizhi	cassia twig

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
43	43	276	<i>Alisma orientale</i> tuber	alismatis rhizoma	泽泻	Zexie	oriental water-plantain rhizome
44	44	274	<i>Phellodendron amurense</i> bark/ <i>Phellodendron chinensis</i> bark	phellodendri chinensis cortex/phellodendri amurensis cortex	黄柏/关黄柏	Huangbo/ Guan-huangbo	Chinese cork-tree/ amur cork-tree
45	45,5	266	<i>Codonopsis pilosula</i> root/ <i>Codonopsis pilosula</i> var. <i>modesta</i> root/ <i>Codonopsis tangshen</i> root	codonopsis radix	党参	Dangshen	tangshen
46	45,5	266	<i>Lonicera japonica</i> flower/ <i>Lonicera macranthoides</i> flower/ <i>Lonicera hypoglauca</i> flower/ <i>Lonicera confusa</i> flower/ <i>Lonicera fulvotomentosa</i> flower	lonicerae japonicae flos/lonicerae flos	金银花/山银花	Jinyinhua/Shanyinhua	japanese honeysuckle flower/ honeysuckle flower
47	47	262	<i>Uncaria rhynchophylla</i> hook-bearing branch/ <i>Uncaria macrophylla</i> hook-bearing branch/ <i>Uncaria hirsuta</i> hook-bearing branch/ <i>Uncaria sinensis</i> hook-bearing branch/ <i>Uncaria sessilifrudus</i> hook-bearing branch	uncariae ramulus cum uncis	钩藤	Gouteng	gambir plant
48	48	257	<i>Paeonia suffruticosa</i> root bark	moutan cortex	牡丹皮	Mudanpi	tree peony bark
49	49	256	<i>Fritillaria cirrhosa</i> bulb/ <i>Fritillaria unibracteata</i> bulb/ <i>Fritillaria przewalskii</i> bulb/ <i>Fritillaria delavayi</i> bulb/ <i>Fritillaria taipaiensis</i> bulb/ <i>Fritillaria unibracteata</i> var. <i>wabuensis</i> bulb	fritillariae cirrhosae bulbus	川贝母	Chuan-beimu	tendrilleaf fritillary bulb
50	50,5	254	<i>Ephedra sinica</i> stem/ <i>Ephedra intermedia</i> stem/ <i>Ephedra equisetina</i> stem	ephedrae herba	麻黄	Mahuang	ephedra
51	50,5	254	<i>Cyperus rotundus</i> rhizome	cyperi rhizoma	香附	Xiangfu	nutgrass galingale rhizome
52	52	253	<i>Perilla frutescens</i> leaf	perillae folium	紫苏叶	Zisuye	perilla leaf
53	53	242	<i>Pueraria lobata</i> root	puerariae lobatae radix	葛根	Gegen	kudzu vine root
54	54	216	<i>Citrus aurantium</i> fruit	aurantii fructus	枳壳	Zhiqiao	orange fruit
55	55	208	<i>Zingiber officinale</i> rhizome	zingiberis rhizoma	干姜	Ganjiang	zingiber (dried ginger)
56	56	204	<i>Areca catechu</i> seed	arecae semen	槟榔	Binglang	areca seed
57	57	195	<i>Chrysanthemum morifolium</i> capitulum/ <i>Chrysanthemum indicum</i> capitulum	chrysanthemi flos/chrysanthemi indici flos	菊花/野菊花	Juhua/Yejuhua	chrysanthemum flower/wild chrysanthemum flower
58	58	187	<i>Scrophularia ningpoensis</i> root	scrophulariae radix	玄参	Xuanshen	figwort root
59	59	186	<i>Polygonum multiflorum</i> root tuber	polygoni multiflori radix	何首乌	Heshouwu	fleeceflower root

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
60	60	183	<i>Prunus persica</i> seed/ <i>Prunus davidiana</i> seed	persicae semen	桃仁	Taoren	peach seed
61	61	181	<i>Schizonepeta tenuifolia</i> herb	schizonepetae herba	荆芥	Jingjie	fineleaf schizonepeta herb
62	62	176	<i>Lycium barbarum</i> fruit	lycii fructus	枸杞子	Gouqizi	barbary wolfberry fruit
63	63	175	<i>Asarum heterotropoides</i> var. <i>mandshuricum</i> root and rhizome/ <i>Asarum sieboldii</i> var. <i>seoulense</i> root and rhizome/ <i>Asarum sieboldii</i> root and rhizome	asari radix et rhizoma	细辛	Xixin	Manchurian wildginger root
64	64	172	<i>Citrus aurantium</i> fruit/ <i>Citrus sinensis</i> fruit	aurantii fructus immaturus	枳实	Zhishi	immature orange fruit
65	65,5	167	<i>Gastrodia elata</i> tuber	gastrodiae rhizoma	天麻	Tianma	tall gastrodia tuber
66	65,5	167	<i>Momordica cochinchinensis</i> seed	momordicae semen	木鳖子	Mubiezi	cochinchina momordica seed
67	67	166	<i>Corydalis yanhusuo</i> tuber	corydalis rhizoma	延胡索	Yanhusuo	yanhusuo
68	68	162	<i>Amomum villosum</i> fruit/ <i>Amomum villosum</i> var. <i>xanthioides</i> fruit/ <i>Amomum longgigulare</i> fruit	amomi fructus	砂仁	Sharen	villous amomum fruit
69	69	160	<i>Peucedanum praeruptorum</i> root	peucedani radix	前胡	Qianhu	hogfennel root
70	70	157	<i>Drynaria fortunei</i> rhizome	drynariae rhizoma	骨碎补	Gusuibu	fortune's drynaria rhizome
71	71	153	<i>Acorus tatarinowii</i> rhizome/ <i>Acorus calamus</i> rhizome	acori tatarinowii rhizoma/acori calami rhizoma	石菖蒲/藏菖蒲	Shichangpu/Zangchangpu	grassleaf sweetflag rhizome/tibet sweetflag rhizome
72	72	152	<i>Angelica pubescens</i> f. <i>biser-rata</i> root	angelicae pubescentis radix	独活	Duhuo	doubleteeth pubescent angelica root
73	73	143	<i>Eucommia ulmoides</i> bark	eucommiae cortex	杜仲	Duzhong	eucommia bark
74	74	142	<i>Anemarrhena asphodeloides</i> rhizome	anemarrhenae rhizoma	知母	Zhimu	common anemarrhena rhizome
75	75	139	<i>Curcuma wenyujin</i> root tuber/ <i>Curcuma longa</i> root tuber/ <i>Curcuma kwangsiensis</i> root tuber/ <i>Curcuma phaeocaulis</i> root tuber	curcumae radix	郁金	Yujin	turmeric root tuber
76	76	125	<i>Curcuma phaeocaulis</i> rhizome/ <i>Curcuma kwangsiensis</i> rhizome/ <i>Curcuma wenyujin</i> rhizome	curcumae rhizoma	莪术	Ezhu	zedoray/zedoary rhizome
77	77	124	<i>Polygala tenuifolia</i> root/ <i>Polygala sibirica</i> root	polygalae radix	远志	Yuanzhi	thinleaf milkwort root
78	78	121	<i>Cornus officinalis</i> sarcocarp	corni fructus	山茱萸	Shanzhuyu	asiatic cornelian cherry fruit

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
79	79	120	<i>Clematis chinensis</i> root and rhizome/ <i>Clematis manshurica</i> root and rhizome/ <i>Clematis hexapetala</i> root and rhizome	clematidis radix et rhizoma	威灵仙	Weilingxian	Chinese clematis root
80	80	119	<i>Isatis indigotica</i> root/ <i>Baphicacanthus cusia</i> rhizome and root	isatidis radix/ <i>baphicacanthis cusiae</i> rhizoma et radix	板蓝根/南板蓝根	Banlangen/Nanbanlangen	isatis root/baphicacanthus root
81	81	118	<i>Cuscuta australis</i> seed/ <i>Cuscuta chinensis</i> seed	cuscutae semen	菟丝子	Tusizi	dodder seed
82	82	117	processed <i>Aconitum carmichaelii</i> daughter root	aconiti lateralis radix praeparata	附子	Fuzi	prepared common monkshood daughter root
83	83	115	<i>Fritillaria thunbergii</i> bulb	fritillariae thunbergii bulbus	浙贝母	Zhebeimu	thunberg fritillary bulb
84	84	111	<i>Trichosanthes kirilowii</i> root/ <i>Trichosanthes rosthornii</i> root	trichosanthis radix	天花粉	Tianhuafen	snakegourd root
85	85	107	<i>Dipsacus asper</i> root	dipsaci radix	续断	Xudian	himalayan teasel root
86	86	106	<i>Gentiana macrophylla</i> root/ <i>Gentiana straminea</i> root/ <i>Gentiana crassicaulis</i> root/ <i>Gentiana crassicaulis</i> root	gentianae macrophyllae radix	秦艽	Qinjiao	largeleaf gentian root
87	87	105	<i>Areca catechu</i> pericarp	arecae pericarpium	大腹皮	Dafupi	areca peel
88	88,5	104	<i>Epimedium brevicornu</i> leaf/ <i>Epimedium sagittatum</i> leaf/ <i>Epimedium pubescens</i> leaf/ <i>Epimedium koreanum</i> leaf	epimedii folium	淫羊藿	Yinyanghuo	epimedium leaf
89	88,5	104	<i>Ganoderma lucidum</i> sporophore/ <i>Ganoderma sinesis</i> sporophore	ganoderma	灵芝	Lingzhi	glossy ganoderma
90	90	97	<i>Ziziphus jujuba</i> var. <i>spinosa</i> seed	ziziphi spinosae semen	酸枣仁	Suanzaoren	spine date seed
91	91,5	94	<i>Cimicifuga heracleifolia</i> rhizome/ <i>Cimicifuga dahurica</i> rhizome/ <i>Cimicifuga foetida</i> rhizome	cimicifugae rhizoma	升麻	Shengma	largetrifolious bugbane rhizome
92	91,5	94	<i>Spatholobus suberectus</i> stem	spatholobi caulis	鸡血藤	Jixueteng	suberect spatholobus stem
93	93	93	<i>Morus alba</i> bark	mori cortex	桑白皮	Sangbaipi	mulberry root bark
94	94	92	<i>Sesamum tenuifolia</i> fruit-spike	schizonepetae spica	荆芥穗	Jingjiesui	fineleaf schizonepeta spike
95	95	91	<i>Artemisia scoparia</i> herb/ <i>Artemisia capillaris</i> flower	artemisiae scopariae herba	茵陈	Yinchen	virgate wormwood herb
96	96	90	<i>Plantago asiatica</i> seed/ <i>Plantago depressa</i> seed	plantaginis semen	车前子	Cheqianzi	plantain seed

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
97	97	87	<i>Eribotrya japonica</i> leaf	eribotryae folium	枇杷叶	Pipaye	loquat leaf
98	98	86	processed <i>Aconitum carmichaelii</i> parent root tuber	aconiti radix cocta	制川乌	Zhichuanwu	prepared common monkshood mother root
99	99	85	<i>Lindera aggregate</i> root tuber	linderae radix	乌药	Wuyao	combined spice-bush root
100	100	84	<i>Asparagus cochinchinensis</i> root tuber	asparagi radix	天冬	Tiandong	cochinchinese asparagus root
101	101,5	80	<i>Cnidium monnieri</i> fruit	cnidii fructus	蛇床子	Shechuangzi	common cnidium fruit
102	101,5	80	<i>Daemonorops draco</i> fruit resin	draconis sanguis	血竭	Xuejie	dragon's blood
103	103,5	78	<i>Leonurus japonicus</i> herb	leonuri herba	益母草	Yimucao	motherwort herb
104	103,5	78	processed <i>Aconitum kusnezoffii</i> root tuber	aconiti kusnezoffii radix cocta	制草乌	Zhicaowu	prepared kusnezoff monkshood root
105	105,5	77	<i>Eugenia caryophyllata</i> flower bud	caryophylli flos	丁香	Dingxiang	clove
106	105,5	77	<i>Ligustrum lucidum</i> fruit	ligustri lucidi fructus	女贞子	Nüzhenzi	glossy privet fruit
107	107,5	75	<i>Stemona sessifolia</i> root tuber/ <i>Stemona japonica</i> root tuber/ <i>Stemona tuberosa</i> root tuber	stemonae radix	百部	Baibu	stemona root
108	107,5	75	<i>Coix lacrymajobi</i> var. <i>mayuen</i> kernel	coicis semen	薏苡仁	Yiyiren	coix seed
109	109	72	<i>Psoralea corylifolia</i> fruit	psoraleae fructus	补骨脂	Buguzhi	malaytea scurfpea fruit
110	110	71	<i>Ricinus communis</i> seed	ricini semen	蓖麻子	Bimazi	castor seed
111	111	70	<i>Citrus reticulata</i> fruit	citri reticulatae pericarpium viride	青皮	Qingpi	green tangerine peel
112	112	69	<i>Polygonatum kingianum</i> rhizome/ <i>Polygonatum sibiricum</i> rhizome/ <i>Polygonatum cyrtoneura</i> rhizome	polygonati rhizoma	黄精	Huangjing	solomonseal rhizome
113	113	66	<i>Aquilaria sinensis</i> resin	aquilariae lignum resinatum	沉香	Chenxiang	Chinese eaglewood wood
114	114,5	64	<i>Arisaema erubescens</i> tuber/ <i>Arisaema heterophyllum</i> tuber/ <i>Arisaema amurense</i> tuber	arisaematis rhizoma	天南星	Tiannanxing	jackinthe pulpit tuber
115	114,5	64	<i>Arctium lappa</i> fruit	arctii fructus	牛蒡子	Niubangzi	great burdock achene
116	116	60	<i>Lophatherum gracile</i> stem and leaf	lophatheri herba	淡竹叶	Danzhuye	lophatherum herb
117	117,5	59	<i>Sinapis alba</i> seed/ <i>Brassica juncea</i> seed	sinapis semen/brassicae semen	芥子	Jiezi	mustard seed

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
118	117,5	59	<i>Dendrobium nobile</i> stem/ <i>Dendrobium huoshanense</i> stem/ <i>Dendrobium chrysotoxum</i> stem/ <i>Dendrobium fimbriatum</i> stem/ <i>Dendrobium officinale</i> stem	dendrobii caulis/dendrobii officinalis caulis	石斛/铁皮石斛	Shihu/Tiepishihu	dendrobium/dendrobium stem
119	120	58	<i>Cistanche deserticola</i> fleshy stem/ <i>Cistanche tubulosa</i> fleshy stem	cistanches herba	肉苁蓉	Rou-congrong	desertliving cistanche
120	120	58	<i>Typhonium giganteum</i> rhizome	typhonii rhizoma	白附子	Baifuzi	giant typhonium rhizome
121	120	58	<i>Zanthoxylum schinifolium</i> pericarp/ <i>Zanthoxylum bungeanum</i> pericarp	zanthoxyli pericarpium	花椒	Huajiao	pricklyash peel
122	122	56	<i>Akebia quinata</i> stem/ <i>Akebia trifoliata</i> stem/ <i>Akebia trifoliata</i> var. <i>australis</i> stem	akebiae caulis	木通	Mutong	akebia stem
123	123	54	<i>Taxillum chinense</i> branch	taxilli herba	桑寄生	Sang-jisheng	Chinese taxillus herb
124	124,5	52	<i>Sophora flavescens</i> root	sophorae flavescens radix	苦参	Kushen	lightyellow sophora root
125	124,5	52	<i>Citrus reticulata</i> exocarp/ <i>Citrus grandis</i> 'Tomentosa' exocarp/ <i>Citrus grandis</i> exocarp	citri exocarpium rubrum/citri grandis exocarpium	橘红/化橘红	Juhong/Huajuhong	red tangerine peel/pummelo peel
126	128	51	<i>Euodia rutaecarpa</i> fruit/ <i>Euodia rutaecarpa</i> var. <i>officinalis</i> fruit/ <i>Euodia rutaecarpa</i> var. <i>bodinieri</i> fruit	euodiae fructus	吴茱萸	Wuzhuyu	medicinal euodia fruit
127	128	51	<i>Magnolia biondii</i> flower bud/ <i>Magnolia denudata</i> flower bud / <i>Magnolia sprengeri</i> flower bud	magnoliae flos	辛夷	Xinyi	biond magnolia flower
128	128	51	<i>Capsicum annuum</i> fruit	capsici fructus	辣椒	Lajiao	hot pepper
129	128	51	<i>Foeniculum vulgare</i> fruit	foeniculi fructus	小茴香	Xiaohuixiang	fennel
130	128	51	<i>Chaenomeles speciosa</i> fruit	chaenomelis fructus	木瓜	Mugua	common floweringquince fruit
131	131	50	<i>Sparganium stoloniferum</i> tuber rhizome	sparganii rhizoma	三棱	Sanleng	common burreed tuber
132	132	48	<i>Cassia obtusifolia</i> seed/ <i>Cassia tora</i> seed	cassiae semen	决明子	Juemingzi	cassia seed
133	133	46	<i>Strychnos nux-vomica</i> seed	strychni semen	马钱子	Maqianzi	nux vomica
134	134	45	<i>Gentiana manshurica</i> root and rhizome/ <i>Gentiana scabra</i> root and rhizome/ <i>Gentiana triflora</i> root and rhizome/ <i>Gentiana rigescens</i> root and rhizome	gentianae radix et rhizoma	龙胆	Longdan	Chinese gentian
135	135	44	<i>Polyporus umbellatus</i> sclerotium	polyporus	猪苓	Zhuling	chuling

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
136	136,5	43	<i>Andrographis paniculata</i> herb	andrographidis herba	穿心莲	Chuanxinlian	common andrographis herb
137	136,5	43	<i>Lysimachia christinae</i> herb/ <i>Desmodium styracifolium</i> herb	lysimachiae herba/desmodii styracifolii herba	金钱草/广金钱草	Jinqiancao/ Guangjinqiancao	christina loosestrife/snowbell-leaf tickclover herb
138	139,5	42	<i>Aconitum carmichaelii</i> parent root tuber	aconiti radix	川乌	Chuanwu	common monkshood mother root
139	139,5	42	<i>Quisqualis indica</i> fruit	quisqualis fructus	使君子	Shijunzi	rangoon creeper fruit
140	139,5	42	<i>Morus alba</i> leaf	mori folium	桑叶	Sangye	mulberry leaf
141	139,5	42	<i>Raphanus sativus</i> seed	raphani semen	莱菔子	Laifuzi	radish seed
142	143	41	<i>Xanthium sibiricum</i> fruit	xanthii fructus	苍耳子	Cangerzi	Siberian cocklebur fruit
143	143	41	processed <i>Baphicacanthus cusia</i> powder/processed <i>Polygonum tinctorium</i> powder/processed <i>Isatis indigotica</i> powder	indigo naturalis	青黛	Qingdai	natural indigo
144	143	41	<i>Aster tataricus</i> root and rhizome	asteris radix et rhizoma	紫菀	Ziwan	tatarian aster root
145	145,5	40	<i>Panax quinquefolium</i> root	panacis quinquefolii radix	西洋参	Xiyangshen	American ginseng
146	145,5	40	<i>Isatis indigotica</i> leaf	isatidis folium	大青叶	Daqingye	dyers woad leaf
147	149,5	39	<i>Aconitum kusnezoffii</i> root tuber	aconiti kusnezoffii radix	草乌	Caowu	kusnezoff monkshood root
148	149,5	39	<i>Prunella vulgaris</i> fruit-spike	prunellae spica	夏枯草	Xiakucao	common selfheal fruit-spike
149	149,5	39	<i>Cibotium barometz</i> rhizome	cibotii rhizoma	狗脊	Gouji	cibot rhizome
150	149,5	39	<i>Houttuynia cordata</i> herb	houttuyniae herba	鱼腥草	Yuxingcao	heartleaf houttuynia herb
151	149,5	39	<i>Amomum compactum</i> fruit/ <i>Amomum kravanh</i> fruit	amomi fructus rotundus	豆蔻	Doukou	round cardamon fruit
152	149,5	39	<i>Prunus mume</i> fruit	mume fructus	乌梅	Wumei	smoked plum
153	153	38	<i>Lycium chinense</i> root bark/ <i>Lycium barbarum</i> root bark	lycii cortex	地骨皮	Digupi	Chinese wolfberry root-bark
154	154	37	<i>Sophora japonica</i> flower and flower bud	sophorae flos	槐花	Huaihua	pagodatree flower
155	157	36	<i>Tussilago farfara</i> flower bud	farfarae flos	款冬花	Kuandonghua	common coltsfoot flower
156	157	36	<i>Stephania tetrandra</i> root	stephaniae tetrandae radix	防己	Fangji	fourstamen stephania root
157	157	36	<i>Typha angustifolia</i> pollen/ <i>Typha orientalis</i> pollen	typhae pollen	蒲黄	Puhuang	cattail pollen
158	157	36	<i>Dolichos lablab</i> seed	lablab semen album	白扁豆	Baibian-dou	white hyacinth bean
159	157	36	<i>Vitex trifolia</i> var. <i>simplicifolia</i> fruit / <i>Vitex trifolia</i> fruit	viticis fructus	蔓荆子	Manjingzi	shrub chastetree fruit

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
160	162	35	<i>Tribulus terrestris</i> fruit	tribuli fructus	蒺藜	Jili	puncturevine caltrop fruit
161	162	35	<i>Artemisia argyi</i> leaf	artemisiae argyi folium	艾叶	Aiye	argy mormwort leaf
162	162	35	<i>Melia toosendan</i> fruit	toosendan fructus	川楝子	Chuan-lianzi	Szechwan china-berry fruit
163	162	35	<i>Sanguisorba officinalis</i> root/ <i>Sanguisorba officinalis</i> var. <i>longifolia</i> root	sanguisorbae radix	地榆	Diyu	garden burnet root
164	162	35	<i>Trichosanthes kirilowii</i> seed/ <i>Trichosanthes rosthornii</i> seed	trichosanthis semen	瓜蒌子	Gualouzi	snakegourd seed
165	166	34	<i>Terminalia chebula</i> fruit/ <i>Terminalia chebula</i> var. <i>tomentella</i> fruit	chebulae fructus	诃子	Hezi	medicine terminalia fruit
166	166	34	<i>Morinda officinalis</i> root	morindae officinalis radix	巴戟天	Bajitian	morinda root
167	166	34	<i>Santalum album</i> heartwood	santali albi lignum	檀香	Tanxiang	sandalwood
168	168,5	33	<i>Glehnia littoralis</i> root	glehniae radix	北沙参	Beishashen	coastal glehnia root
169	168,5	33	<i>Bletilla striata</i> tuber	bletillae rhizoma	白及	Baiji	common bletilla tuber
170	170	32	<i>Nelumbo nucifera</i> seed	nelumbinis semen	莲子	Lianzi	lotus seed
171	171,5	30	<i>Zanthoxylum nitidum</i> root	zanthoxyli radix	两面针	Liangmianzhen	shinyleaf pricklyash root
172	171,5	30	<i>Sarcandra glabra</i> herb	sarcandrae herba	肿节风	Zhong-jiefeng	glabrous sarcandra herb
173	175	29	<i>Cynomorium songaricum</i> stem	cynomorii herba	锁阳	Suoyang	songaria cynomorium herb
174	175	29	<i>Rubus chingii</i> fruit	rubi fructus	覆盆子	Fupanzi	palmleaf raspberry fruit
175	175	29	<i>Alpina officinarum</i> rhizome	alpinae officinarum rhizoma	高良姜	Gaoliang-jiang	lesser galangal rhizome
176	175	29	<i>Dimorcarpus longan</i> arill	longan arillus	龙眼肉	Longyanrou	longan aril
177	175	29	<i>Lilium lancifolium</i> bulb/ <i>Lilium brownii</i> var. <i>viridulum</i> bulb/ <i>Lilium pumilum</i> bulb	lilii bulbus	百合	Baihe	lily bulb
178	179	28	<i>Artemisia annua</i> herb	artemisiae annuae herba	青蒿	Qinghao	sweet wormwood herb
179	179	28	<i>Polygonum cuspidatum</i> rhizome and root	polygoni cuspidati rhizoma et radix	虎杖	Huzhang	giant knotweed rhizome
180	179	28	<i>Euryale ferox</i> kernel	euryales semen	芡实	Qianshi	gordon euryale seed
181	181	27	<i>Platycladus orientalis</i> kernel	platycladi semen	柏子仁	Baiziren	Chinese arborvitae kernel
182	182,5	26	<i>Pharbitis nil</i> seed/ <i>Pharbitis pupurea</i> seed	pharbitidis semen	牵牛子	Qianniuzi	pharbitis seed

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
183	182,5	26	<i>Acanthopanax senticosus</i> root and rhizome or stem	acanthopanax senticosi radix et rhizoma seu caulis	刺五加	Ciwujia	manyprickle acanthopanax
184	186	25	<i>Cordyceps sinensis</i> stroma	cordyceps	冬虫夏草	Dong-chongxia-ca	Chinese caterpillar fungus
185	186	25	<i>Gleditsia sinensis</i> fruit	gleditsiae fructus abnormalis	猪牙皂	Zhuyazao	Chinese honeylocust abnormal fruit
186	186	25	processed <i>Arisaema erubescens</i> tuber/processed <i>Arisaema heterophyllum</i> tuber/processed <i>Arisaema amurense</i> tuber	arisaematis rhizoma praeparatum	制天南星	Zhitian-nanxing	prepared jack-in-the-pulpit tuber
187	186	25	<i>Acanthopanax gracilistylus</i> root bark	acanthopanax cortex	五加皮	Wujiapi	slenderstyle acanthopanax bark
188	186	25	<i>Rosa laevigata</i> fruit	rosae laevigatae fructus	金樱子	Jinyingzi	cherokee rose fruit
189	190	24	<i>Sophora tonkinensis</i> root and rhizome	sophorae tonkinensis radix et rhizoma	山豆根	Shandou-gen	Vietnamese sophora root
190	190	24	<i>Lycopus lucidus</i> var. <i>hirtus</i> herb	lycopi herba	泽兰	Zelan	hirsute shiny bugleweed herb
191	190	24	<i>Agrimonia pilosa</i> herb	agrimoniae herba	仙鹤草	Xianhecao	hairyvein agrimonia herb
192	192	22	<i>Centipeda minima</i> herb	centipedae herba	鹅不食草	Ebushicao	small centipede herb
193	193,5	21	<i>Ginkgo biloba</i> leaf	ginkgo folium	银杏叶	Yinxingye	ginkgo leaf
194	193,5	21	<i>Pseudostellaria heterophylla</i> root	pseudostellariae radix	太子参	Taizishen	heterophyllly false-starwort root
195	196,5	20	<i>Curcuma longa</i> rhizome	curcumae longae rhizoma	姜黄	Jiang-huang	turmeric
196	196,5	20	<i>Belamcanda chinensis</i> rhizome	belamcandae rhizoma	射干	Shegan	blackberrylily rhizome
197	196,5	20	<i>Alpinia oxyphylla</i> fruit	alpiniae oxyphyllae fructus	益智	Yizhi	sharp-leaf glangal fruit
198	196,5	20	<i>Vaccaria segetalis</i> seed	vaccariae semen	王不留行	Wangbuli-uxing	cowherb seed
199	201,5	19	<i>Papaver somniferum</i> pericarp	papaveris pericarpium	罂粟壳	Yingsu-qiao	poppy capsule
200	201,5	19	<i>Ligusticum sinense</i> rhizome and root/ <i>Ligusticum jeholense</i> rhizome and root	ligustici rhizome et radix	藁本	Gaoben	Chinese lovage
201	201,5	19	<i>Juncum effusus</i> stem pith	junci medulla	灯心草	Dengxin-ca	common rush
202	201,5	19	<i>Sargassum pallidum</i> alga/ <i>Sargassum fusiforme</i> alga	sargassum	海藻	Haizao	seaweed
203	201,5	19	<i>Arnebia euchroma</i> root/ <i>Arnebia guttata</i> root	arnebiae radix	紫草	Zicao	arnebia root

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
204	201,5	19	<i>Siegesbeckia orientalis</i> herb/ <i>Siegesbeckia pubescens</i> herb/ <i>Siegesbeckia glabrescens</i> herb	siegesbeckiae herba	豨薟草	Xixiancao	siegesbeckia herb
205	206	18	<i>Smilax glabra</i> rhizome	smilacis glabrae rhizoma	土茯苓	Tufuling	glabrous greenbrier rhizome
206	206	18	<i>Descurainia sophia</i> seed/ <i>Lepidium apetalum</i> seed	descurainiae semen/lepidii semen	葶苈子	Tinglizi	pepperweed seed/tansymustard seed
207	206	18	<i>Caesalpinia sappan</i> heart wood	sappan lignum	苏木	Sumu	sappan wood
208	210,5	17	<i>Dryopteris crassirhizoma</i> rhizome and frond bases	dryopteridis crassirhizomatis rhizoma	绵马贯众	Mian-maguan-zhong	male fern rhizome
209	210,5	17	<i>Myristica fragrans</i> kernel	myristicae semen	肉豆蔻	Roudou-kou	nutmeg
210	210,5	17	<i>Styrax tonkinensis</i> resin	benzoinum	安息香	Anxixiang	benzoin
211	210,5	17	<i>Rhodiola crenulata</i> root and rhizome	rhodiolae crenulatae radix et rhizoma	红景天	Hong-jingtian	bigflower rhodiola root
212	210,5	17	<i>Imperata cylindrica</i> var. <i>major</i> rhizome	imperatae rhizoma	白茅根	Baimao-gen	alang grass rhizome
213	210,5	17	<i>Homalomena occulta</i> rhizome	homalomenae rhizoma	千年健	Qiannian-jian	obscured homalomena rhizome
214	216	15	<i>Dictamnus dasycarpus</i> root bark	dictamni cortex	白鲜皮	Baixianpi	densefruit pittany root-bark
215	216	15	<i>Gleditsia sinensis</i> spine	gleditsiae spina	皂角刺	Zaojiaoci	Chinese honeylocust spine
216	216	15	<i>Fritillaria ussuriensis</i> bulb/ <i>Fritillaria hupehensis</i> bulb/ <i>Fritillaria pallidiflora</i> bulb/ <i>Fritillaria walujewii</i> bulb	fritillariae ussuriensis bulbus/fritillariae hupehensis bulbus/fritillariae pallidiflorae bulbus	平贝母/湖北贝母/伊贝母	Ping-beimu/Hubei-beimu/Yibeimu	ussuri fritillary bulb/hubei fritillary bulb/sinkiang fritillary bulb
217	216	15	<i>Viola yedoensis</i> herb	violae herba	紫花地丁	Zihuadiding	Tokyo violet herb
218	216	15	<i>Lobelia chinensis</i> herb	lobeliae chinensis herba	半边莲	Banbian-lian	Chinese lobelia herb
219	222,5	14	<i>Impatiens balsamina</i> seed	impatiensis semen	急性子	Jixingzi	garden balsam seed
220	222,5	14	<i>Platycladus orientalis</i> twig and leaf	platycladi cacumen	侧柏叶	Cebaiye	Chinese arborvitae twig and leaf
221	222,5	14	<i>Punica granatum</i> pericarp	granati pericarpium	石榴皮	Shiliupi	pomegranate rind
222	222,5	14	<i>Clematis armandii</i> stem/ <i>Clematis montana</i> stem	clematidis armandii caulis	川木通	Chuanmu-tong	armand clematis stem
223	222,5	14	<i>Erodium stephanianum</i> herb/ <i>Geranium wilfordii</i> herb/ <i>Geranium carolinianum</i> herb	erodii herba/geranii herba	老鹳草	Laohecao	common heron's bill herb/wilford granesbill herb

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
224	222,5	14	<i>Lonicera japonica</i> stem and branch	lonicerae japonicae caulis	忍冬藤	Ren-dongteng	honeysuckle stem
225	222,5	14	<i>Polygonum multiflorum</i> stem	polygoni multiflori caulis	首乌藤	Shou-wuteng	tuber fleeceflower stem
226	222,5	14	<i>Trichosanthes kirilowii</i> pericarp/ <i>Trichosanthes rosthornii</i> pericarp	trichosanthis pericarpium	瓜蒌皮	Gualoupi	snakegourd peel
227	230,5	13	<i>Rhus chinensis</i> gall/ <i>Rhus potaninii</i> gall/ <i>Rhus punjabensis</i> . var. <i>sinica</i> gall	galla chinensis	五倍子	Wubeizi	Chinese gall
228	230,5	13	<i>Alpinia katsumadai</i> seed	alpiniae katsumadai semen	草豆蔻	Caodou-kou	katsumada galangal seed
229	230,5	13	<i>Dioscorea nipponica</i> rhizome	dioscoreae nipponicae rhizoma	穿山龙	Chuan-shanlong	nippon yam rhizome
230	230,5	13	<i>Eclipta prostrata</i> herb	ecliptae herba	墨旱莲	Mohan-lian	yerbadetajo herb
231	230,5	13	<i>Laminaria japonica</i> thalline/ <i>Ecklonia kurome</i> thalline	laminariae thallus/eckloniae thallus	昆布	kunbu	kelp/tangle
232	230,5	13	<i>Oroxylum indicum</i> seed	oroxyli semen	木蝴蝶	Muhudie	Indian trumpetflower seed
233	230,5	13	<i>Scutellaria barbata</i> herb	scutellariae barbatae herba	半枝莲	Banzhil-ian	barbated skullcup herb
234	230,5	13	<i>Corydalis bungeana</i> herb	corydalis bungeanae herba	苦地丁	Kudiding	bunge corydalis herb
235	237,5	12	<i>Ampelopsis japonica</i> root tuber	ampelopsis radix	白藜	Bailian	Japanese ampelopsis root
236	237,5	12	<i>Paris polyphylla</i> var. <i>yunnanensis</i> rhizome/ <i>Paris polyphylla</i> var. <i>chinensis</i> rhizome	paridis rhizoma	重楼	Chonglou	Paris rhizome
237	237,5	12	<i>Nardostachys jatamansi</i> root and rhizome/ <i>Nardostachys grandiflora</i> root and rhizome/ <i>Nardostachys chinensis</i> root and rhizome	nardostachyos radix et rhizome	甘松	Gansong	nardostachys root
238	237,5	12	<i>Sesamum indicum</i> seed	sesami semen	黑芝麻	Heizhima	black sesame
239	237,5	12	<i>Viscum coloratum</i> stem and branch	visci herba	槲寄生	Hujisheng	colored mistletoe herb
240	237,5	12	<i>Piper longum</i> fruit-spike	piperis longui fructus	荜茇	Bibo	long pepper
241	243,5	11	<i>Aloe barbadensis</i> juice/ <i>Aloe ferox</i> juice	aloe	芦荟	Luhui	aloes
242	243,5	11	<i>Curculigo orchoides</i> rhizome	curculiginis rhizoma	仙茅	Xianmao	common curculigo rhizome
243	243,5	11	<i>Trigonella foenum-graecum</i> seed	trigonellae semen	葫芦巴	Huluba	common fenugreek seed
244	243,5	11	<i>Sterculia lychnophora</i> seed	sterculiae lychnophorae semen	胖大海	Pangdahai	boat-fruited sterculia seed
245	243,5	11	<i>Astragalus complanatus</i> seed	astragali complanati semen	沙苑子	Shayuanzi	flatstem milkvetch seed

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
246	243,5	11	<i>Omphalia lapidescens</i> sclerotium	omphalia	雷丸	Leiwan	thunder ball
247	248	10	<i>Periploca sepium</i> root bark	periplocae cortex	香加皮	Xiangjiapi	Chinese silkvine root bark
248	248	10	<i>Cynanchum paniculatum</i> root and rhizome	cynanchi paniculati radix et rhizoma	徐长卿	Xuchangqing	paniculate swallowwort root
249	248	10	<i>Rhododendron dauricum</i> leaf	rhododendri daurici folium	满山红	Manshanhong	dahurian rhododendron leaf
250	252	9	<i>Crocus sativus</i> stigma	croci stigma	西红花	Xihonghua	saffron
251	252	9	<i>Polygonum bistorta</i> rhizome	bistortae rhizoma	拳参	Quanshen	bistort rhizome
252	252	9	<i>Leonurus japonicus</i> fruit	leonuri fructus	茺蔚子	Chongweizi	motherwort fruit
253	252	9	<i>Amomum tsao-ko</i> fruit	tsaoko fructus	草果	Caoguo	caoguo
254	252	9	<i>Morus alba</i> branch	mori ramulus	桑枝	Sangzhi	mulberry twig
255	258	8	<i>Toxicodendron vernicifluum</i> resin	toxicodendri resina	干漆	Ganqi	dried lacquer
256	258	8	<i>Picrorhiza scrophulariiflora</i> rhizome/ <i>Picrorhiza kurroa</i> rhizome/ <i>Neopicrorhiza scrophulariiflora</i> rhizome	picrorhizae rhizoma	胡黄连	Huhuanglian	figwortflower picrohiza rhizome
257	258	8	<i>Pueraria thomsonii</i> root	puerariae thomsonii radix	粉葛	Fenge	thomson kudzu-vine root
258	258	8	<i>Trichosanthes kirilowii</i> fruit/ <i>Trichosanthes rosthornii</i> fruit	trichosanthis fructus	瓜蒌	Gualou	snakegourd fruit
259	258	8	<i>Mahonia bealei</i> stem/ <i>Mahonia fortunei</i> stem	mahoniae caulis	功劳木	Gonglaomu	Chinese mahonia stem
260	258	8	<i>Polygonum aviculare</i> herb	polygoni avicularis herba	蒺藜	Bianxu	common knot-grass herb
261	258	8	<i>Rubia cordifolia</i> root and rhizome	rubiae radix et rhizoma	茜草	Qiancao	Indian madder root
262	268	7	<i>Anemone raddeana</i> rhizome	anemones raddeanae rhizoma	两头尖	Liangtoujian	radde anemone rhizome
263	268	7	<i>Menispermum dauricum</i> rhizome	menispermi rhizoma	北豆根	Beidougen	asiatic moonseed rhizome
264	268	7	<i>Rhaponticum uniflorum</i> root	rhapontici radix	漏芦	Loulu	uniflower swiss-centaury root
265	268	7	<i>Ginkgo biloba</i> seed	ginkgo semen	白果	Baiguo	ginkgo seed
266	268	7	<i>Erycibe obtusifolia</i> stem/ <i>Erycibe schmidtii</i> stem	erycibes caulis	丁公藤	Dinggongteng	obtuselaf erycibe stem
267	268	7	<i>Perilla frutescens</i> stem	perillae canlis	紫苏梗	Zisugeng	perilla stem
268	268	7	<i>Kochia scoparia</i> fruit	kochiae fructus	地肤子	Difuizi	belvedere fruit
269	268	7	<i>Plantago asiatica</i> herb/ <i>Plantago depressa</i> herb	plantaginis herba	车前草	Cheqiancao	plantain herb
270	268	7	<i>Senecio scandens</i> herb	senecionis scandentis herba	千里光	Qianliguang	climbing groundsel herb

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
271	268	7	<i>Ilex totunda</i> bark	ilicis rotundae cortex	救必应	Jiubiyiing	ovateleaf holly bark
272	268	7	<i>Pyrrosia sheareri</i> leaf/ <i>Pyrrosia lingua</i> leaf/ <i>Pyrrosia petiolosa</i> leaf	pyrrosiae folium	石韦	Shiwei	shearer's pyrrosia leaf
273	268	7	<i>Sophora japonica</i> fruit	sophorae fructus	槐角	Huaijiao	Japanese pagodatree pod
274	268	7	<i>Curcuma wenyujin</i> rhizome	wenyujin rhizoma concisum	片姜黄	Pianjiang-huang	wenyujin concise rhizome
275	278	6	<i>Datura metel</i> flower	daturae flos	洋金花	Yangjin-hua	datura flower
276	278	6	<i>Cremastra appendiculata</i> pseudobulb/ <i>Pleione bulbocodioides</i> pseudobulb/ <i>Pleione yunnanensis</i> pseudobulb	cremastrae pseudobulbus/pleiones pseudobulbus	山慈菇	Shancigu	appendiculate cremastra pseudobulb/common pleione pseudobulb
277	278	6	<i>Equisetum hyemale</i> herb	equiseti hiemalis herba	木贼	Muzei	common scouring rush herb
278	278	6	<i>Phyllanthus emblica</i> fruit	phyllanthi fructus	余甘子	Yuganzi	emblic leafflower fruit
279	278	6	<i>Piper nigrum</i> fruit	piperis fructus	胡椒	Hujiao	pepper fruit
280	278	6	<i>Allium sativum</i> bulb	allii sativi bulb	大蒜	Dasuan	garlic buib
281	278	6	<i>Allium tuberosum</i> seed	allii tuberosi semen	韭菜子	Jiucaizi	tuber onion seed
282	286	5	processed <i>Croton tiglium</i> defatted seed	crotonis semen pulveratum	巴豆霜	Badoushuang	defatted croton seed powder
283	286	5	<i>Knoxia valerianoides</i> root	knoxiae radix	红大戟	Hongdaji	knoxia root
284	286	5	<i>Centella asiatica</i> herb	centellae herba	积雪草	Jixuecao	asiatic pennywort herb
285	286	5	<i>Nelumbo nucifera</i> stamen	nelumbinis stamen	莲须	Lianxu	lotus stamen
286	286	5	<i>Albizia julibrissin</i> inflorescence or flower bud	albiziae flos	合欢花	Hehuanhua	albizia flower
287	286	5	<i>Albizia julibrissin</i> stem bark	albiziae cortex	合欢皮	Hehuanpi	silk tree albizia bark
288	286	5	<i>Buddleja officinalis</i> flower bud and inflorescence	buddlejae flos	密蒙花	Mimenghua	pale butterflybush flower
289	286	5	<i>Cirsium setosum</i> herb	cirsii herba	小蓟	Xiaoji	field thistle herb
290	286	5	<i>Sedum sarmentosum</i> herb	sedi herba	垂盆草	Chupancao	stringy stonecrop herb
291	294	4	<i>Cassia angustifolia</i> leaf/ <i>Cassia acutifolia</i> leaf	sennae folium	番泻叶	Fanxieye	senna leaf
292	294	4	<i>Pulsatilla chinensis</i> root	pulsatillae radix	白头翁	Baitouweng	Chinese pulsatilla root
293	294	4	<i>Lasiosphaera fenzi</i> sporophore/ <i>Calvatia gigantea</i> sporophore/ <i>Calvatia lilacina</i> sporophore	lasiosphaera/calvatia	马勃	Mabo	puff-ball
294	294	4	<i>Verbena officinalis</i> herb	verbenae herba	马鞭草	Mabiancao	European verbena herb

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
295	294	4	<i>Celosia argentea</i> seed	celosiae semen	青葙子	Qingxiangzi	feather cockscomb seed
296	294	4	<i>Tinospora sagittata</i> root tuber/ <i>Tinospora capillipes</i> root tuber	tinosporae radix	金果榄	Jinguolan	tinospora root
297	294	4	<i>Glechoma longituba</i> herb	glechomae herba	连钱草	Lianqiancao	longtube ground ivy herb
298	303,5	3	<i>Euphorbia kansui</i> tuber root	kansui radix	甘遂	Gansui	gansui root
299	303,5	3	<i>Sinomenium acuturn</i> stem/ <i>Sinomenium acutum</i> var. <i>cinereum</i> stem	sinomenii caulis	青风藤	Qingfengteng	orientvine stem
300	303,5	3	processed <i>Euphorbia lathyris</i> seed	euphorbiae semen pulveratum	千金子霜	Qianjin-zishuang	caper euphorbia seed powder
301	303,5	3	<i>Liquidambar formosana</i> infructescences	liquidambaris fructus	路路通	Lulutong	beautiful sweet-gum fruit
302	303,5	3	<i>Illicium difengpi</i> bark	illicii cortex	地枫皮	Difengpi	difengpi bark
303	303,5	3	<i>Swertia pseudochinensis</i> herb	swertiae herba	当药	Dangyao	false Chinese swertia herb
304	303,5	3	<i>Ardisia crenata</i> root	ardisiae crenatae radix	朱砂根	Zhushagen	coral ardisia root
305	303,5	3	<i>Celosia cristata</i> capitulum	celosiae cristatae flos	鸡冠花	Jiguanhua	cockscomb flower
306	303,5	3	<i>Corydalis decumbens</i> tuber	corydalis decumbentis rhizoma	夏天无	Xiatianwu	decumbent corydalis rhizome
307	303,5	3	<i>Ilex cornuta</i> leaf	ilicis comutae folium	枸骨叶	Gouguye	Chinese holly leaf
308	303,5	3	<i>Smilax china</i> rhizome	smilacis chinae rhizoma	菝葜	Baqia	chinaroot green-brier rhizome
309	303,5	3	<i>Trachelospermum jasminoides</i> stem	trachelospermi caulis et folium	络石藤	Luoshiteng	Chinese starjasmine stem
310	319	2	<i>Rhododendron molle</i> flower	rhododendri mollis flos	闹羊花	Naoyanghua	yellow azalea flower
311	319	2	<i>Pseudolarix amabilis</i> root bark	pseudolaricis cortex	土荆皮	Tujingpi	golden larch bark
312	319	2	<i>Daphne genkwa</i> flower bud	genkwa flos	芫花	Yuanhua	lilac daphne flower bud
313	319	2	<i>Croton tiglium</i> fruit	crotonis fructus	巴豆	Badou	croton fruit
314	319	2	<i>Gleditsia sinensis</i> fruit	gleditsiae sinensis fructus	大皂角	Dazaojiao	big gleditsia
315	319	2	<i>Pterocephalus hookeri</i> herb	pterocephali herba	翼首草	Yishoucao	hooker winghead herb
316	319	2	<i>Euphorbia hirta</i> herb	euphorbiae hirtae herba	飞扬草	Feiyangcao	garden euphorbia herb
317	319	2	<i>Murraya exotica</i> leaf and foliferous branch/ <i>Murraya paniculata</i> leaf and foliferous branch	murrayae folium et cacumen	九里香	Jiulixiang	murraya jasmine

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
318	319	2	<i>Spirodela polyrrhiza</i> herb	spirodelae herba	浮萍	Fuping	common ducks-meat herb
319	319	2	<i>Panax japonicus</i> rhizome	panacis japonici rhizoma	竹节参	Zhujieshen	Japanese ginseng
320	319	2	<i>Semiaquilegia adoxoides</i> root tuber	semiaquilegiae radix	天葵子	Tiankuizi	muskroot-like semiaquilegia root
321	319	2	<i>Cirsium japonicum</i> herb	cirsii japonici herba	大蓟	Daji	Japanese thistle herb
322	319	2	<i>Eupatorium fortunei</i> herb	eupatorii herba	佩兰	Peilan	fortune eupatorium herb
323	319	2	<i>Fibraurea recisa</i> stem	fibraureae caulis	黄藤	Huangteng	common fibraurea stem
324	319	2	<i>Litsea cubeba</i> fruit	litseae fructus	荜澄茄	Bicheng-qie	mountain spicy fruit
325	319	2	<i>Selaginella tamariscina</i> herb/ <i>Selaginella pulvinata</i> herb	selaginellae herba	卷柏	Juanbai	spikemoss
326	319	2	<i>Sargentodoxa cuneata</i> lianoid stem	sargentodoxae caulis	大血藤	Daxueteng	sargentgloryvine stem
327	319	2	<i>Polygala japonica</i> herb	polygalae japonicae herba	瓜子金	Guazijin	japanese milkwort herb
328	319	2	<i>Ranunculus ternatus</i> root tuber	ranunculi ternati radix	猫爪草	Maozhao-cai	catclaw buttercup root
329	341	1	<i>Hyoscyamus niger</i> seed	hyoscyami semen	天仙子	Tianxian-zi	henbane seed
330	341	1	<i>Saussurea involucrata</i> herb	saussureae involucratae herba	天山雪莲	Tian-shanxue-lian	snow lotus herb
331	341	1	<i>Aristolochia contorta</i> fruit/ <i>Aristolochia debilis</i> fruit	aristolochiae fructus	马兜铃	Madouling	Dutchman's pipe fruit
332	341	1	<i>Aristolochia debilis</i> herb/ <i>Aristolochia contorta</i> herb	aristolochiae herba	天仙藤	Tianxian-teng	Dutchman's pipe vine
333	341	1	<i>Physochlaina infundibularis</i> root	physochlainae radix	华山参	Huashan-shen	funneled physochlaina root
334	341	1	<i>Euphorbia pekinensis</i> root	euphorbiae pekinensis radix	京大戟	Jingdaji	Peking euphorbia root
335	341	1	<i>Melia toosendan</i> stem bark or root bark/ <i>Melia azedarach</i> stem bark or root bark	meliae cortex	苦楝皮	Kulianpi	Szechwan china-berry bark
336	341	1	<i>Dichroa febrifuga</i> root	dichroae radix	常山	Chang-shan	antifeverile dichroa root
337	341	1	<i>Laggera pterodonta</i> herb	laggerae herba	臭灵丹草	Chouling-dancai	wingedtooth laggera leaf
338	341	1	<i>Picrasma quassioides</i> branch and leaf	picrasmae ramulus et folium	苦木	Kumu	Indian quassia-wood
339	341	1	<i>Podophyllum hexandrum</i> fruit	sinopodophylli fructus	小叶莲	Xiaoyelian	common sinopodophyllum fruit
340	341	1	<i>Carpesium abrotanoides</i> fruit	carpesii fructus	鹤虱	Heshi	common carpesium fruit

Table 4 (continued)

No.	Rank	Occurrence count	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
341	341	1	<i>Apocynum venetum</i> leaf	apocyni veneti folium	罗布麻叶	Luobu-maye	dogbane leaf
342	341	1	<i>Atropa belladonna</i> herb	belladonnae herba	颠茄草	Dianqie-ca	belladonna herb
343	341	1	<i>Abrus cantoniensis</i> herb	abri herba	鸡骨草	Jiguc	canton love-pea vine
344	341	1	<i>Bolbostemma paniculatum</i> tuber	bolbostemmatis rhizoma	土贝母	Tubeimu	paniculate bolbostemma
345	341	1	<i>Hedysarum polybotrys</i> root	hedysari radix	红芪	Hongqi	manyinflorescenced sweetvetch root
346	341	1	<i>Hypericum perforatum</i> herb	hyperici perforati herba	贯叶金丝桃	Guanye-jinsitao	common St. John's wort herb
347	341	1	<i>Nelumbo nucifera</i> receptacle	nelumbinis receptaculum	莲房	Lianfang	lotus receptacle
348	341	1	<i>Polygonum perfoliatum</i> herb	polygoni perfoliati herba	杠板归	Kangban-gui	polygonum herb
349	341	1	<i>Rosa chinensis</i> flower	rosae chinensis flos	月季花	Yuejihua	Chinese rose flower
350	341	1	<i>Solidago decurrens</i> herb	solidaginis herba	一枝黄花	Yizhi-huanghua	common golden-rod herb
351	341	1	<i>Ardisia japonica</i> herb	ardisiae japonicae herba	矮地茶	Aidicha	japanese ardisia herb
352	341	1	<i>Commelina communis</i> herb	commelinae herba	鸭跖草	Yazhicao	common dayflower herb
353	341	1	<i>Tamarix chinensis</i> twig and leaf	tamaricis cacumen	西河柳	Xiheliu	Chinese tamarisk twig

6.5 Single herbal medicine standards published or under development

As of July 2024, there are 58 single herbal medicines for which an international standard has been published or is under development (see Table 5).

Table 5 — Current projects and published standards for single herbal medicines

No.	ISO document	Title
1	ISO 17217-1	Traditional Chinese medicine — <i>Ginseng</i> seeds and seedlings — Part 1: <i>Panax ginseng</i> CA Meyer
2	ISO 19824	Traditional Chinese medicine — <i>Schisandra chinensis</i> (Turcz.) Baill. seeds and seedlings
3	ISO 20311	Traditional Chinese medicine — <i>Salvia miltiorrhiza</i> seeds and seedlings
4	ISO 20408	Traditional Chinese medicine — <i>Panax notoginseng</i> seeds and seedlings
5	ISO 20409	Traditional Chinese medicine — <i>Panax notoginseng</i> root and rhizome
6	ISO 20759	Traditional Chinese medicine — <i>Artemisia argyi</i> leaf
7	ISO 21314	Traditional Chinese medicine — <i>Salvia miltiorrhiza</i> root and rhizome
8	ISO 21315	Traditional Chinese medicine — <i>Ganoderma lucidum</i> fruiting body
9	ISO 21316	Traditional Chinese medicine — <i>Isatis indigotica</i> root

^a Under preparation. Stage at the time of publication: ISO/DIS 19047:2024, ISO/DIS 19836:2024, ISO/DIS 19842:2024, ISO/FDIS 19851:2024, ISO/FDIS 5106:2024, ISO/DIS 19015:2024, ISO/CD 21590:2024, ISO/DIS 24049:2024, ISO/CD 24063:2024, ISO/CD 24976:2024, ISO/AWI 19661:2024, ISO/CD 20255:2024, ISO/CD 24066:2024, ISO/CD 24900:2024, ISO/CD 24902:2024, ISO/CD 25003:2024, ISO/AWI 25099:2024, ISO/AWI 25115:2024, ISO/AWI 7835:2024, ISO/AWI 8961:2024.

Table 5 (continued)

No.	ISO document	Title
10	ISO 21317	Traditional Chinese medicine — <i>Lonicera japonica</i> flower
11	ISO 21370	Traditional Chinese medicine — <i>Dendrobium officinale</i> stem
12	ISO 22212	Traditional Chinese medicine — <i>Gastrodia</i> tuber
13	ISO 22584	Traditional Chinese medicine — <i>Angelica sinensis</i> root
14	ISO 22585	Traditional Chinese medicine — <i>Codonopsis pilosula</i> root
15	ISO 22586	Traditional Chinese medicine — <i>Paeonia lactiflora</i> root — White peony root
16	ISO 22988	Traditional Chinese medicine — <i>Astragalus mongholicus</i> root
17	ISO 23193	Traditional Chinese medicine — <i>Lycium barbarum</i> and <i>Lycium chinense</i> fruit
18	ISO 23959	Traditional Chinese medicine — <i>Glehnia littoralis</i> root
19	ISO 23962	Traditional Chinese medicine — Processed <i>Aconitum carmichaelii</i> lateral root
20	ISO 23964	Traditional Chinese medicine — <i>Saposhnikovia divaricata</i> root and rhizome
21	ISO 23965	Traditional Chinese medicine — <i>Bupleurum chinense</i> , <i>Bupleurum scorzonerifolium</i> and <i>Bupleurum falcatum</i> root
22	ISO 23972	Traditional Chinese medicine — <i>Zingiber officinale</i> rhizome
23	ISO 4154	Traditional Chinese medicine — <i>Sinomenium acutum</i> stem
24	ISO 4564	Traditional Chinese medicine — <i>Scutellaria baicalensis</i> root
25	ISO 5076	Traditional Chinese medicine — <i>Angelica dahurica</i> root
26	ISO 5228	Traditional Chinese medicine — <i>Rheum palmatum</i> , <i>Rheum tanguticum</i> , and <i>Rheum officinale</i> root and rhizome
27	ISO 7177	Traditional Chinese medicine — <i>Coptis chinensis</i> and <i>Coptis japonica</i> rhizome
28	ISO 7450	Traditional Chinese medicine — <i>Pinellia ternata</i> tuber
29	ISO 8071	Traditional Chinese medicine — <i>Ligusticum chuanxiong</i> rhizome
30	ISO 8959	Traditional Chinese medicine — <i>Eucommia ulmoides</i> stem bark
31	ISO 9109	Traditional Chinese medicine — <i>Rehmannia glutinosa</i> root
32	ISO 9299	Traditional Chinese medicine — <i>Curcuma longa</i> rhizome
33	ISO 9306	Traditional Chinese medicine — <i>Ephedra sinica</i> , <i>Ephedra intermedia</i> , and <i>Ephedra equisetina</i> herbaceous stem
34	ISO 9319	Traditional Chinese medicine — <i>Poria cocos</i> sclerotium
35	ISO 13615	Traditional Chinese medicine — <i>Atractylodes macrocephala</i> rhizome
36	ISO 13619	Traditional Chinese medicine — <i>Gardenia jasminoides</i> fruit
37	ISO 19025	Traditional Chinese medicine — <i>Glycyrrhiza uralensis</i> , <i>Glycyrrhiza inflata</i> , and <i>Glycyrrhiza glabra</i> root and rhizome
38	ISO 19047 ^a	Traditional Chinese medicine — <i>Polygonum multiflorum</i> root
39	ISO 19836 ^a	Traditional Chinese medicine — <i>Platycodon grandiflorus</i> root
40	ISO 19842 ^a	Traditional Chinese medicine — <i>Dioscorea opposita</i> rhizome
41	ISO 19851 ^a	Traditional Chinese medicine — <i>Cinnamomum cassia</i> branch
42	ISO 5106 ^a	Traditional Chinese medicine — <i>Polygala tenuifolia</i> and <i>Polygala sibirica</i> root
43	ISO 5471	Traditional Chinese medicine — <i>Carthamus tinctorius</i> flower
44	ISO 19015 ^a	Traditional Chinese medicine — <i>Glycyrrhiza uralensis</i> and <i>Glycyrrhiza glabra</i> seeds and seedlings
45	ISO 21590 ^a	Traditional Chinese medicine — <i>Crocus sativus</i> stigma
46	ISO 24049 ^a	Traditional Chinese medicine — <i>Aconitum carmichaelii</i> parent root tuber
47	ISO 24063 ^a	Traditional Chinese medicine — <i>Ziziphus jujuba</i> fruit

^a Under preparation. Stage at the time of publication: ISO/DIS 19047:2024, ISO/DIS 19836:2024, ISO/DIS 19842:2024, ISO/FDIS 19851:2024, ISO/FDIS 5106:2024, ISO/DIS 19015:2024, ISO/CD 21590:2024, ISO/DIS 24049:2024, ISO/CD 24063:2024, ISO/CD 24976:2024, ISO/AWI 19661:2024, ISO/CD 20255:2024, ISO/CD 24066:2024, ISO/CD 24900:2024, ISO/CD 24902:2024, ISO/CD 25003:2024, ISO/AWI 25099:2024, ISO/AWI 25115:2024, ISO/AWI 7835:2024, ISO/AWI 8961:2024.

Table 5 (continued)

No.	ISO document	Title
48	ISO 24976 ^a	Traditional Chinese medicine — <i>Pueraria lobata</i> root
49	ISO 19661 ^a	Traditional Chinese medicine — <i>Anemarrhena asphodeloides</i> rhizome
50	ISO 20255 ^a	Traditional Chinese medicine — <i>Epimedium brevicornum</i> , <i>Epimedium sagittatum</i> , <i>Epimedium pubescens</i> , and <i>Epimedium koreanum</i> herb
51	ISO 24066 ^a	Traditional Chinese medicine — <i>Euodia</i> (syn. <i>Evodia</i> or <i>Tetradium</i>) fruit
52	ISO 24900 ^a	Traditional Chinese medicine — <i>Sophora tonkinensis</i> root and rhizome
53	ISO 24902 ^a	Traditional Chinese medicine — <i>Zanthoxylum nitidum</i> root
54	ISO 25003 ^a	Traditional Chinese medicine — <i>Gentiana scabra</i> , <i>Gentiana manshurica</i> , and <i>Gentiana triflora</i> roots and rhizome
55	ISO 25099 ^a	Traditional Chinese medicine — <i>Curcuma phaeocaulis</i> , <i>Curcuma kwangsiensis</i> , and <i>Curcuma wenyujin</i> rhizome
56	ISO 25115 ^a	Traditional Chinese medicine — cultivated <i>Cistanche deserticola</i> stem
57	ISO 7835 ^a	Traditional Chinese medicine — <i>Schisandra chinensis</i> fruit
58	ISO 8961 ^a	Traditional Chinese medicine — <i>Areca catechu</i> seed

^a Under preparation. Stage at the time of publication: ISO/DIS 19047:2024, ISO/DIS 19836:2024, ISO/DIS 19842:2024, ISO/FDIS 19851:2024, ISO/FDIS 5106:2024, ISO/DIS 19015:2024, ISO/CD 21590:2024, ISO/DIS 24049:2024, ISO/CD 24063:2024, ISO/CD 24976:2024, ISO/AWI 19661:2024, ISO/CD 20255:2024, ISO/CD 24066:2024, ISO/CD 24900:2024, ISO/CD 24902:2024, ISO/CD 25003:2024, ISO/AWI 25099:2024, ISO/AWI 25115:2024, ISO/AWI 7835:2024, ISO/AWI 8961:2024.

6.6 Endangered species

16 kinds of single herbal medicines are listed as endangered species in CITES, Appendix II, as shown in Table 6.

Table 6 — Endangered species of single herbal medicines in CITES

Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
<i>Aquilaria sinensis</i> resin	aquilariae lignum resinatum	沉香	Chenxiang	Chinese eaglewood wood
<i>Cibotium barometz</i> rhizome	cibotii rhizoma	狗脊	Gouji	cibot rhizome
<i>Cistanche deserticola</i> fleshy stem	cistanches herba	肉苁蓉	Roucongrong	desertliving cistanche
<i>Dendrobium nobile</i> stem/ <i>Dendrobium fimbriatum</i> stem	dendrobii caulis	石斛	Shihu	dendrobium
<i>Dendrobium officinale</i> stem	dendrobii officinalis caulis	铁皮石斛	Tiebishihu	dendrobium stem
<i>Panax ginseng</i> root and rhizome	ginseng radix et rhizoma	人参	Renshen	ginseng
<i>Panax quinquefolium</i> root	panacis quinquefolii radix	西洋参	Xiyangshen	American ginseng
<i>Pleione bulbocodioides</i> pseudobulb/ <i>Pleione yunnanensis</i> pseudobulb	pleiones pseudobulbus	山慈菇	Shancigu	common pleione pseudobulb
<i>Rhodiola crenulata</i> root and rhizome	rhodiolae crenulatae radix et rhizoma	红景天	Hongjingtian	bigflower rhodiola root
<i>Podophyllum hexandrum</i> fruit	sinopodophyll fructus	小叶莲	Xiaoyelian	common sinopodophyllum fruit
<i>Aloe barbadensis</i> juice/ <i>Aloe ferox</i> juice	aloe	芦荟	Luhui	aloes
<i>Gastrodia elata</i> tuber	gastrodiae rhizoma	天麻	Tianma	tall gastrodia tuber
<i>Bletilla striata</i> tuber	bletillae rhizoma	白及	Baiji	common bletilla tuber

Table 6 (continued)

Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
<i>Nardostachys grandiflora</i> root and rhizome	nardostachyos radix et rhizome	甘松	Gansong	nardostachys root
<i>Picrorhiza kurroa</i> rhizome	picrorhizae rhizoma	胡黄连	Huhuanglian	figwortflower picrorhiza rhizome
<i>Dalbergia odorifera</i> trunk and root	dalbergiae odoriferae lignum	降香	Jiangxiang	rosewood

7 Data processing

7.1 The weight coefficient of evaluation indexes distribution

The weight coefficient of four criteria (international trade, existing standards, safety issues and use frequency in formula) for developing single herb standards were established by international experts working in the fields of traditional Chinese medicine, phytomedicine, natural medicines and standardization (see [Table 7](#)).

Table 7 — The weight coefficient of criteria based on expert consultation

Criterion	Descriptives					Coefficient of variation
	Number of participants	Minimum score %	Maximum score %	Average score %	Standard deviation	CV %
International trade	69	16,5	60	26,25	5,79	22,06
Existing standards	69	10	33	23,26	3,66	15,73
Safety issues	69	10	33	25,17	4,26	16,91
Use frequency in formula	69	5	40	25,32	4,11	16,24
Valid number	69			100,00		

7.2 The range of priority rank distribution

The range of priority rank for developing single herb standards were determined by the vote of international experts working in the fields of traditional Chinese medicine, phytomedicine, natural medicines and standardization (see [Table 8](#)). Based on this result, the top 150 single herbal medicines are selected as the priority rank range in the development of international standards for single herbs.

Table 8 — The range of priority rank for developing single herb standards based on expert consultation

Opinion	Number of votes
Top 100 single herbal medicines	7
Top 150 single herbal medicines	31
Top 200 single herbal medicines	3
Top 100 single herbal medicines after removing the single herbal medicines of that the ISO standards have been published or are under development	27
Top 100 single herbal medicines except for these have been published	1
Valid number	69

7.3 Data statistics

The information in [Table 1](#), [Table 2](#), [Table 3](#) and [Table 4](#) was analysed by the rank-sum ratio (RSR) method according to a statistical theory and thus produced in [Table 9](#) and [Table A.1](#).

8 Single herbal medicines in order of priority

[Table 9](#) shows the top 150 single herbal medicines, ranked by synthesis score via the Statistical Package for Social Science (SPSS), in the order of their priority in the development of international standards. The remaining single herbal medicines outside the top 150 are listed in [Annex A](#).

Table 9 — Top 150 single herbal medicines by priority

Integrated priority rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
1	<i>Glycyrrhiza uralensis</i> root and rhizome/ <i>Glycyrrhiza inflata</i> root and rhizome/ <i>Glycyrrhiza glabra</i> root and rhizome	glycyrrhizae radix et rhizoma	甘草	Gancao	licorice root
2	<i>Panax ginseng</i> root and rhizome	ginseng radix et rhizoma	人参	Renshen	ginseng
3	<i>Scutellaria baicalensis</i> root	scutellariae radix	黄芩	Huangqin	baical skullcap root
4	<i>Angelica sinensis</i> root	angelicae sinensis radix	当归	Danggui	Chinese angelica
5	<i>Ligusticum chuanxiong</i> rhizome	chuanxiong rhizoma	川芎	Chuanxiong	Szechwan lovage rhizome
6	<i>Bupleurum chinense</i> root/ <i>Bupleurum scorzonrifolium</i> root	bupleuri radix	柴胡	Chaihu	Chinese thoro-wax root
7	<i>Ephedra sinica</i> stem/ <i>Ephedra intermedia</i> stem/ <i>Ephedra equisetina</i> stem	ephedrae herba	麻黄	Mahuang	ephedra
8	<i>Coptis chinensis</i> rhizome/ <i>Coptis deltoidea</i> rhizome/ <i>Coptis teeta</i> rhizome	coptidis rhizoma	黄连	Huanglian	golden thread
9	<i>Schisandra chinensis</i> fruit/ <i>Schisandra sphenanthera</i> fruit	schisandrae chinensis fructus/schisandrae sphenantherae fructus	五味子/南五味子	Wuweizi/Nan-wuweizi	Chinese magnoliavine fruit/southern magnoliavine fruit
10	<i>Paeonia lactiflora</i> root/ <i>Paeonia veitchii</i> root	paeoniae radix rubra	赤芍	Chishao	red peony root
11	<i>Cinnamomum cassia</i> bark	cinnamomi cortex	肉桂	Rougui	cassia bark
12	<i>Platycodon grandiflorum</i> root	platycodonis radix	桔梗	Jiegeng	platycodon root
13	<i>Paeonia lactiflora</i> root	paeoniae radix alba	白芍	Baishao	white peony root
14	<i>Atractylodes macrocephala</i> rhizome	atractylodis macrocephalae rhizoma	白术	Baizhu	largehead atractylodes rhizome
15	<i>Astragalus membranaceus</i> var. <i>mongholicus</i> root/ <i>Astragalus membranaceus</i> root	astragli radix	黄芪	Huangqi	milkvetch root
16	<i>Prunus armeniaca</i> var. <i>ansu</i> seed/ <i>Prunus sibirica</i> seed/ <i>Prunus mandshurica</i> seed/ <i>Prunus armeniaca</i> seed	armeniacaе semen amarum	苦杏仁	Kuxingren	bitter apricot seed

Table 9 (continued)

Integrated priority rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
17	<i>Euodia rutaecarpa</i> fruit/ <i>Euodia rutaecarpa</i> var. <i>officinalis</i> fruit/ <i>Euodia rutaecarpa</i> var. <i>bodinieri</i> fruit	euodiae fructus	吴茱萸	Wuzhuyu	medicinal euodia fruit
18	processed <i>Aconitum carmichaelii</i> daughter root	aconiti lateralis radix praeparata	附子	Fuzi	prepared common monkshood daughter root
19	<i>Angelica dahurica</i> root/ <i>Angelica dahurica</i> var. <i>formosana</i> root	angelicae dahuricae radix	白芷	Baizhi	dahurian angelica root
20	<i>Prunus persica</i> seed/ <i>Prunus davidiana</i> seed	persicae semen	桃仁	Taoren	peach seed
21	<i>Pinellia ternata</i> tuber	pinelliae rhizoma	半夏	Banxia	pinellia tuber
22	<i>Pueraria lobata</i> root	puerariae lobatae radix	葛根	Gegen	kudzuvine root
23	<i>Eucommia ulmoides</i> bark	eucommiae cortex	杜仲	Duzhong	eucommia bark
24	<i>Saposhnikovia divaricata</i> root	saposhnikoviae radix	防风	Fangfeng	divaricate saposhnikovia root
25	<i>Ziziphus jujuba</i> fruit	jujubae fructus	大枣	Dazao	Chinese date
26	<i>Polygonum multiflorum</i> root tuber	polygoni multiflori radix	何首乌	Heshouwu	fleeceflower root
27	<i>Carthamus tinctorius</i> flower	carthami flos	红花	Honghua	safflower
28	<i>Notopterygium incisum</i> rhizome and root/ <i>Notopterygium franchetii</i> rhizome and root	notopterygii rhizoma et radix	羌活	Qianghuo	incised notopterygium rhizome or root
29	<i>Gardenia jasminoides</i> fruit	gardeniae fructus	梔子	Zhizi	cape jasmine fruit
30	<i>Dioscorea opposita</i> rhizome	dioscoreae rhizoma	山药	Shanyao	common yam rhizome
31	<i>Rheum palmatum</i> root and rhizome/ <i>Rheum tanguticum</i> root and rhizome/ <i>Rheum officinale</i> root and rhizome	rhei radix et rhizoma	大黄	Dahuang	rhubarb
32	<i>Anemarrhena asphodeloides</i> rhizome	anemarrhenae rhizoma	知母	Zhimu	common anemarrhena rhizome
33	<i>Corydalis yanhusuo</i> tuber	corydalis rhizoma	延胡索	Yanhusuo	yanhusuo
34	<i>Atractylodes lancea</i> rhizome/ <i>Atractylodes chinensis</i> rhizome	atractylodis rhizoma	苍术	Cangzhu	atractylodes rhizome
35	<i>Rehmannia glutinosa</i> root	rehmanniae radix	地黄	Dihuang	rehmannia root
36	<i>Salvia miltiorrhiza</i> root and rhizome	salviae miltiorrhizae radix et rhizoma	丹参	Danshen	danshen root
37	<i>Citrus reticulata</i> pericarp	citri reticulatae pericarpium	陈皮	Chenpi	dried tangerine peel
38	<i>Strychnos nux-vomica</i> seed	strychni semen	马钱子	Maqianzi	nux vomica
39	<i>Areca catechu</i> seed	arecae semen	槟榔	Binglang	areca seed
40	<i>Akebia quinata</i> stem/ <i>Akebia trifoliata</i> stem/ <i>Akebia trifoliata</i> var. <i>australis</i> stem	akebiae caulis	木通	Mutong	akebia stem

Table 9 (continued)

Integrated priority rank	Herbal name	Pharmaceutical name	Chinese name	Chinese pinyin	English name
41	<i>Cimicifuga heracleifolia</i> rhizome/ <i>Cimicifuga dahurica</i> rhizome/ <i>Cimicifuga foetida</i> rhizome	cimicifugae rhizoma	升麻	Shengma	largetrifolious bugbane rhizome
42	<i>Magnolia biondii</i> flower bud/ <i>Magnolia denudata</i> flower bud / <i>Magnolia sprengeri</i> flower bud	magnoliae flos	辛夷	Xinyi	biond magnolia flower
43	<i>Mentha haplocalyx</i> herb	menthae haplocalycis herb	薄荷	Bohe	peppermint
44	<i>Paeonia suffruticosa</i> root bark	moutan cortex	牡丹皮	Mudanpi	tree peony bark
45	<i>Zingiber officinale</i> rhizome	zingiberis rhizoma	干姜	Ganjiang	zingiber (dried ginger)
46	<i>Asarum heterotropoides</i> var. <i>mandshuricum</i> root and rhizome/ <i>Asarum sieboldii</i> var. <i>seoulense</i> root and rhizome/ <i>Asarum sieboldii</i> root and rhizome	asari radix et rhizoma	细辛	Xixin	Manchurian wildginger root
47	<i>Ophiopogon japonicus</i> root tuber/ <i>Liriope muscari</i> root/ <i>Liriope spicata</i> var. <i>prolifera</i> root	ophiopogonis radix/ liriopes radix	麦冬/山麦冬	Maidong/ Shanmaidong	dwarf lilyturf tuber/ liriope root tuber
48	<i>Forsythia suspensa</i> fruit	forsythiae fructus	连翘	Lianqiao	weeping forsythia capsule
49	<i>Magnolia officinalis</i> bark/ <i>Magnolia officinalis</i> var. <i>biloba</i> bark	magnoliae officinalis cortex	厚朴	Houpo	officinal magnolia bark
50	<i>Polygala tenuifolia</i> root/ <i>Polygala sibirica</i> root	polygalae radix	远志	Yuanzhi	thinleaf milkwort root
51	<i>Poria cocos</i> sclerotium	poria	茯苓	Fuling	Indian bread
52	<i>Tribulus terrestris</i> fruit	tribuli fructus	蒺藜	Jili	puncturevine caltrop fruit
53	<i>Curcuma phaeocaulis</i> rhizome/ <i>Curcuma kwangsiensis</i> rhizome/ <i>Curcuma wenyujin</i> rhizome	curcumae rhizoma	莪术	Ezhu	zedoray/zedoary rhizome
54	<i>Sophora tonkinensis</i> root and rhizome	sophorae tonkinensis radix et rhizoma	山豆根	Shandougen	Vietnamese sophora root
55	<i>Lycium barbarum</i> fruit	lycii fructus	枸杞子	Gouqizi	barbary wolfberry fruit
56	<i>Panax notoginseng</i> root and rhizome	notoginseng radix et rhizoma	三七	Sanqi	sanchi
57	<i>Acorus tatarinowii</i> rhizome/ <i>Acorus calamus</i> rhizome	acori tatarinowii rhizoma/acori calami rhizoma	石菖蒲/藏菖蒲	Shichangpu/ Zangchangpu	grassleaf sweetflag rhizome/ tibet sweetflag rhizome
58	<i>Commiphora molmol</i> resin/ <i>Commiphora myrrha</i> resin	myrrha	没药	Moyao	myrrh