

Table 6

**Comparative table on assay conditions for crude drugs
in CP, JP, KP and VP**

Comparative Table on Assay Conditions for Crude Drugs in CP, JP, KP and VP

No.	Latin name	Assay (↑ : Not less than)	(1) method	(2) developing solvent	(3) detection
1	<i>Aconitum carmichaelii</i> Debeaux JP PROCESSI ACONTI RADIX	Total Alkaloids 0.7~1.5% (Type 1), 0.1~ 0.6% (Type 2), 0.5~0.9% (Type 3)	Titration		
2	<i>Anemarrhena asphodeloides</i> Bunge CP RHIZOMA ANEMARRHENAE	Diosgenin ↑ 1.0%	HPLC (ODS column)	methanol / water (95 : 5)	Evaporative Light Scattering method
3	<i>Angelica dahurica</i> Bentham et Hooker fil CP RADIX ANGELICA DAHURICAE	Imperatorin ↑ 0.080%	HPLC (ODS column)	methanol / water (55 : 45)	UV 300 nm
4	<i>Astragalus membranaceus</i> Bunge CP RADIX ASTRAGALI	Astragaloside IV ↑ 0.04%	HPLC (ODS column)	acetonitrile / water (32 : 68)	Evaporative Light Scattering method
5	<i>Bupleurum scorzonerifolium</i> Willd. JP BUPLEURI RADIX	Saikosaponin a + d ↑ 0.35% Saikosaponin a ↑ 0.3%	HPLC (ODS column, I.D. 4.6 mm x 1) 15 cm, 5 mm HPLC (ODS column, I.D. 4.6 mm x 1) 15-25 cm, 5-10 mm	acetonitrile / water (2 : 3) 2) 50° 3) adjust flow rate to elute Saikosaponin d at ca. 8 min acetonitrile / water (35 : 65) 2) 20° 3) 2.0 mL/min	UV 206 nm UV 203 nm
6	<i>Carthamus tinctorius</i> Linne CP FLOS CARTHAMI	Hydroxysafflor A ↑ 1.0%, Kaempferide ↑ 0.05%	HPLC (ODS column)	Hydroxysafflor A [methanol / acetonitrile / 0.7% phosphoric acid (26 : 2 : 72)], Kaempferide [methanol / 0.4% phosphoric acid (52 : 48)]	Hydroxysafflor A (UV 403 nm), Kaempferide (UV 367 nm)
7	<i>Cimicifuga racemifolia</i> Komarov CP RHIZOMA CIMICIFUGAE	Ferulic acid ↑ 0.1%	HPLC (ODS column)	acetonitrile / 0.1% phosphoric acid solution (13 : 87)	UV 316 nm
8	<i>Cinnamomum cassia</i> Blume CP CORTEX CINNAMOMI KP CINNAMOMI CORTEX	Cinnamic acid ↑ 1.5% Cinnamic acid ↑ 0.03%	HPLC (ODS column) HPLC (ODS column, I.D. 4.6 mm x 1) 15-25 cm, 5-10 mm	acetonitrile / water (35 : 75) methanol / water / glacial acetic acid (12 : 88 : 1) 2) 20° 3) 2.0 mL/min	UV 290 nm UV 280 nm
9	<i>Cornus officinalis</i> Siebold et Zuccarini CP FRUCTUS CORNI KP CORNI FRUCTUS	Loganin ↑ 0.60% Loganin ↑ 0.5%	HPLC (ODS column) HPLC (ODS column, I.D. 4.6 mm x 1) 15-25 cm, 5-10 mm	acetonitrile / water (15 : 85)	UV 240 nm UV 240 nm
10	<i>Curcuma longa</i> Linne CP RHIZOMA CURCUMAE LONGAE	Curcumin ↑ 1.0%	HPLC (ODS column)	acetonitrile / 4% glacial acetic acid solution (48 : 52)	UV 430 nm
11	<i>Ephedra sinica</i> Stapf CP HERBA EPHEDRAE JP EPHEDRAE HERBA KP EPHEDRAE HERBA VP HERBA EPHEDRAE	Ephedrine hydrochloride ↑ 1.0% Total alkaloids ↑ 0.7% Total alkaloids (Ephedrine+ Pseudoephedrine) ↑ 0.7% Total alkaloids ↑ 0.8%	HPLC (ODS column) HPLC (ODS column, I.D. 4.6 mm x 1) 15-25 cm, 5-10 mm HPLC (ODS column, I.D. 4.6 mm x 1) 15-25 cm, 5-10 mm Titration	acetonitrile / 0.1% phosphoric acid solution (9 : 87) sodium lauryl sulfate (1 in 128) / acetonitrile / phosphoric acid (640 : 360 : 1) 2) 45° 3) adjust flow rate to elute ephedrine at ca.14 min sodium lauryl sulfate (1 in 128) / acetonitrile / phosphoric acid (640 : 360 : 1) 2) 45° 3) adjust flow rate to elute ephedrine at ca.14 min	UV 207 nm UV 210 nm UV 210 nm
12	<i>Epimedium koreanum</i> Nakai CP HERBA EPIMEDII	Total flavonoids ↑ 5.0%, Icaritine ↑ 0.50%	Total flavonoids (Absorption) Icaritine [HPLC (ODS column)]	Total flavonoids (methanol), Icaritine [acetonitrile / water (30 : 70)]	UV 270 nm
13	<i>Eurocommia ulmoides</i> Oliver CP CORTEX EUCOMMIAE	Pinoresinol-di-glucopyranoside ↑ 0.1%	HPLC (ODS column)	methanol / water (25 : 75)	UV 277 nm
14	<i>Evodia rutaecarpa</i> Bentham CP FRUCTUS EVODIAE	Evodiamine+rutaecarpine ↑ 0.15%	HPLC (ODS column)	acetonitrile / 0.04% octanesulfonic acid sodium salt (43 : 57)	UV 225 nm
15	<i>Forsythia suspensa</i> Vahl CP FRUCTUS FORSYTHIAE	Forsythiin ↑ 0.15%	HPLC (ODS column)	acetonitrile / water (25 : 75)	UV 277 nm
16	<i>Fritillaria thunbergii</i> Miq. CP BULBUS FRITILLARIAE THUNBERGII	Peimine + Peiminine ↑ 0.080%	HPLC (ODS column)	acetonitrile / water/ethylendiamine (70 : 30 : 0.3)	Evaporative Light Scattering method
17	<i>Gardenia jasminoides</i> Ellis CP FRUCTUS GARDENIAE JP GARDENIAE FRUCTUS	Geniposide ↑ 1.8% Geniposide ↑ 3.0%	HPLC (ODS column) HPLC (ODS column, I.D. 6 mm x 1) 15 cm, 5 mm	acetonitrile / water (15 : 85) water / acetonitrile (22 : 3) 2) 30° 3) adjust flow rate to elute Geniposide at ca.15 min	UV 238 nm UV 240 nm
18	<i>Glycyrrhiza uralensis</i> Fisher, G. <i>glabra</i> Linne CP RADIX GLYCYRRHIZAE JP GLYCYRRHIZAE RADIX KP GLYCYRRHIZAE RADIX VP RADIX GLYCYRRHIZAE	Glycyrrhizic acid ↑ 2.0%, Licoritin ↑ 1.0% Glycyrrhizic acid ↑ 2.5% Glycyrrhizic acid ↑ 2.5% Glycyrrhetic acid ↑ 6.0%	HPLC (ODS column) HPLC (ODS column, I.D. 4.6 mm x 1) 15-25 cm, 5-10 mm HPLC (ODS column, I.D. 4.6 mm x 1) 15-25 cm, 5-10 mm Weight	Glycyrrhizic acid [methanol / 0.2 mol/L ammonium acetate / glacial acetic acid (67 : 33 : 1)], Licoritin [acetonitrile / 0.5% glacial acetic acid (1 : 4)] dilute acetic acid / acetonitrile (3 : 2) 2) 20° 3) adjust flow rate to elute glycyrrhizic acid at ca.10 min dilute acetic acid / acetonitrile (3 : 2) 2) 20° 3) adjust flow rate to elute glycyrrhizic acid at ca.10 min	Glycyrrhizic acid (UV 250 nm), Licoritin (UV 276 nm) UV 254 nm UV 254 nm

No.	Latin name	Assay (↑ : Not less than)	(1) method	(2) developing solvent	(3) detection
19	<i>Leonurus japonicus</i> Houtt. CP HERBA LEONURI	Stachydrine ↑ 0.50%	TLC (Silica gel TLC)	ethyl acetate / 1-butanol / hydrochloric acid (1 : 8 : 3)	1) 105° 2) UV 510 nm
20	<i>Lonicera japonica</i> Thunberg CP FLOS LONICERAE	Chlorogenic acid ↑ 1.5% Magnolol+Honokiol ↑ 2.0% Magnolol ↑ 0.8%	HPLC (ODS column) HPLC (ODS column) HPLC (ODS column, I.D. 4-6 mm x 1) water / acetonitrile / acetic acid (50 : 50 : 1) 2) 20° 3) adjust flow rate to elute magnolol at ca. 14 min HPLC (ODS column, I.D. 4-6 mm x 1) water / acetonitrile / acetic acid (50 : 50 : 1) 2) 20° 3) adjust flow rate to elute magnolol at ca. 14 min	acetonitrile / 0.4% phosphoric acid solution (13 : 87) methanol / water (78 : 22)	UV 327 nm UV 294 nm UV 289 nm UV 289 nm
21	<i>Magnolia officinalis</i> Rehder et Wilson var. <i>biloba</i> Rehder et Wilson CP CORTEX MAGNOLIAE OFFICINALIS JP MAGNOLIAE CORTEX KP MAGNOLIAE CORTEX	Paeoniflorin ↑ 1.6% Paeoniflorin ↑ 2.0% Paeoniflorin ↑ 2.0%	HPLC (ODS column) HPLC (ODS column, I.D. 4-6 mm x 1) water / acetonitrile / phosphoric acid (85 : 150 : 1) 2) 20° 3) adjust flow rate to elute paeoniflorin at ca. 10 min HPLC (ODS column, I.D. 4-6 mm x 1) water / acetonitrile (4 : 1) 2) 20° 3) adjust flow rate to elute paeoniflorin at ca. 10 min	acetonitrile / 0.1% phosphoric acid solution (14 : 86) ca. 10 min	UV 230 nm UV 232 nm UV 230 nm
22	<i>Paeonia lactiflora</i> Pallas CP RADIX PAEONIAE ALBA JP PAEONIAE RADIX KP PAEONIAE RADIX	Paeonol ↑ 1.2% Paeonol ↑ 1.0% Paeonol ↑ 1.0% Paeonol ↑ 1.0%	HPLC (ODS column) HPLC (ODS column, I.D. 4-6 mm x 1) water / acetonitrile / acetic acid (100) (65 : 35 : 2) 2) 20° 3) adjust flow rate to elute paeonol at ca. 14 min HPLC (ODS column, I.D. 4-6 mm x 1) water / acetonitrile / acetic acid (100) (65 : 35 : 2) 2) 20° 3) adjust flow rate to elute paeonol at ca. 14 min Absorption	methanol / water (45 : 55)	UV 274 nm UV 274 nm UV 274 nm UV 274 nm
23	<i>Paeonia suffruticosa</i> Andrews CP CORTEX MOUTAN JP MOUTAN CORTEX KP MOUTAN CORTEX RADICIS VP CORTEX PAEONIA SUFFRUTICOSAE	Ginsenoside Rg1+Re ↑ 0.30%, Ginsenoside Rb1 ↑ 0.20%, Ginsenoside Fg1 ↑ 0.10%, Ginsenoside Rb1 ↑ 0.20%	HPLC (ODS column) HPLC (ODS column, I.D. 4-6 mm x 1) water / acetonitrile (7 : 3) 2) 40° 3) adjust flow rate to elute Ginsenoside Rb1 at ca. 20 min	Solution A: acetonitrile, Solution B: water, 0-35 min (A 19 : B 81), 35-55 min (A 19-29 : B 81-71), 55-70 min (A 29 : B 71), 70-100 min (A 29-40 : B 71-60)	UV 203 nm UV 203 nm
24	<i>Panax ginseng</i> C. A. Meyer CP RADIX ET RHIZOMA GINSENG JP GINSENG RADIX	Total saponin ↑ 6.0% Patchouli alcohol ↑ 0.10%	Dry weight GC	methanol	Dry weight (105°)
25	<i>Platycodon grandiflorum</i> A. De Candolle CP RADIX PLATYCODI	Glucose ↑ 7.0%	Absorption	80% ethanol	UV 582 nm
26	<i>Pogostemon cablin</i> Benthham CP HERBA POGOSTEMONIS	Ursolic acid ↑ 0.12% Amygdalin ↑ 3.0% Amygdalin ↑ 3.0%	HPLC (ODS column) Titration HPLC (ODS column, I.D. 4-6 mm x 1) methanol / water (20 : 80) 2) 20° 3) 1.0 mL/min	methanol / water (88 : 12) silver nitrate solution (0.1 mol/L)	UV 210 nm UV 214 nm
27	<i>Polygonatum sibiricum</i> Redoute CP RHIZOMA POLYGONATI	Amygdalin ↑ 3.0%	Titration		
28	<i>Prunella vulgaris</i> Linne var. <i>ilicincta</i> Nakai CP SPICA PRUNELLAE	Amygdalin ↑ 0.5%	HPLC (ODS column)	methanol / water (20 : 80) 2) 20° 3) 1.0 mL/min	UV 214 nm
29	<i>Prunus armeniaca</i> Linne, <i>P. armeniaca</i> Linne var. <i>ansu</i> Maximowicz CP SEMEN ARMENIACAE AMARUM KP ARMENIACAE SEMEN	Amygdalin ↑ 3.0% Amygdalin ↑ 3.0%	Titration HPLC (ODS column, I.D. 4-6 mm x 1) methanol / water (20 : 80) 2) 20° 3) 1.0 mL/min		
30	<i>Prunus persica</i> Batsch, <i>P. persica</i> Batsch var. <i>davidiana</i> Maximowicz CP PERSICAE SEMEN	Amygdalin ↑ 3.0%	Titration		
31	<i>Rheum palmatum</i> Linne CP RADIX ET RHIZOMA RHEI JP RHEI RHIZOMA KP RHEI RHIZOMA	Aloeemodin+Rhein+Emodin+ Chrysophanol+Physcion ↑ 1.5% Sennoside A ↑ 0.25% Sennoside A ↑ 0.25%	HPLC (ODS column) HPLC (ODS column, I.D. 4-6 mm x 1) dilute acetic acid (100) (1 in 80) / acetonitrile (4 : 1) 2) 40° 3) adjust flow rate to elute sennoside A at ca. 15 min HPLC (ODS column, I.D. 4-6 mm x 1) dilute acetic acid (100) (1 in 80) / acetonitrile (4 : 1) 2) 40° 3) adjust flow rate to elute sennoside A at ca. 15 min	methanol / 0.1% phosphoric acid solution (85 : 15) ca. 15 min	UV 254 nm UV 340 nm UV 340 nm
32	<i>Schisandra chinensis</i> Bailton CP FRUCTUS SCHISANDRAE CHINENSIS	Schisandrin ↑ 0.40%	HPLC (ODS column)	methanol / water (13 : 7)	UV 250 nm
33	<i>Scutellaria baicalensis</i> Georgi JP SCUTELLARIAE RADIX KP SCUTELLARIAE RADIX VP RADIX SCUTELLARIAE	Baicalin ↑ 9.0% Baicalin ↑ 10.0% Baicalin ↑ 10.0% Flavonoid calculate as Baicalin ↑ 4.0%	HPLC (ODS column) HPLC (ODS column, I.D. 4-6 mm x 1) dilute phosphoric acid (1 in 146) / acetonitrile (18 : 7) 2) 50° 3) adjust flow rate to elute baicalin at ca. 6 min HPLC (ODS column, I.D. 4-6 mm x 1) dilute phosphoric acid (1 in 146) / acetonitrile (18 : 7) 2) 50° 3) adjust flow rate to elute baicalin at ca. 6 min Absorption	methanol / water / phosphoric acid (47 : 53 : 0.2) min min ethanol	UV 280 nm UV 277 nm UV 277 nm UV 279 nm

No.	Latin name	Assay (↑ : Not less than)	(1) method	(2) developing solvent	(3) detection
34	<i>Strychnos nux-vomica</i> Linne CP SEMEN STRYCHNI	Strychnine 1.20-2.20%	HPLC (ODS column)	acetonitrile / 0.01 mol/L heptanesulfonic acid sodium salt and 0.02 mol/L potassium dihydrogen phosphate (21 : 79)	UV 260 nm
	JP STRYCHNI SEMEN	Strychnine ↑ 1.07%	HPLC (ODS column, I.D. ca. 4 mm x ca. 15 cm, 5-10 mm)	1) 6.8 g of monobasic potassium phosphate in water to 1000 mL / acetonitrile / triethylamine (45 : 5 : 1), adjust to a pH of 3.0 2) room temperature 3) adjust flow rate to elute strychnine at ca. 17 min	UV 210 nm
	KP STRYCHNI SEMEN	Strychnine ↑ 1.05%	HPLC (ODS column, I.D. 4-6 mm x 15-25 cm, 5-10 mm)	1) 6.8 g of monobasic potassium phosphate in water to 1000 mL / acetonitrile / triethylamine (45 : 5 : 1), adjust to a pH of 3.0 2) room temperature 3) adjust flow rate to elute strychnine at ca. 17 min	UV 210 nm
	VP SEMEN STRYCHNI	Strychnine ↑ 1.2%	Absorption	0.5 mol sulphuric acid	UV 262, 300 nm
35	<i>Syzygium aromaticum</i> Merrill et Perry CP FLOS CARYOPHYLLI	Eugenol ↑ 11.0%	GC (10% polyethylene glycol-20M)		
36	<i>Zingiber officinale</i> Roscoe KP ZINGIBERIS RHIZOMA	6-Gingerol ↑ 0.4%	HPLC (ODS column, I.D. 4-6 mm x 15-25 cm, 5-10 mm)	1) acetonitrile / water (45 : 55) 2) 20' 3) adjust flow rate to elute 6-gingerol at ca. 7 min	UV 280 nm
37	<i>Aloe ferox</i> Miller CP ALOE	Barbaloin ↑ 6.0%	HPLC (ODS column)	acetonitrile / water (25 : 75)	UV 355 nm
	JP ALOE	Barbaloin ↑ 4.0%	HPLC (ODS column, I.D. ca. 6 mm x ca. 15 cm, 5 mm)	1) water / acetonitrile / acetic acid (100) (74 : 26 : 1) 2) 30' 3) adjust flow rate to elute barbaloin at ca. 12 min	UV 360 nm
	VP ALOE	Hydroxyanthracen ↑ 28.0%	Absorption	0.5% magnesium acetate in methanol	UV 512 nm
38	<i>Alpinia officinarum</i> Hance CP RHIZOMA ALPINAЕ OFFICINARUM	Cineol ↑ 0.15%	GC		
39	<i>Angelica pubescens</i> Maximowicz CP RADIX ANGELICAE PUBESCENSIS	Osthol ↑ 0.50%	HPLC (ODS column)	acetonitrile / water (60 : 40)	UV 322 nm
40	<i>Arctium lappa</i> Linne CP FRUCTUS ARCTII	Arctiin ↑ 5.0%	HPLC (ODS column)	methanol / water (1 : 1.1)	UV 280 nm
41	<i>Areca catechu</i> Linne CP SEMEN ARECAE	Arecoline ↑ 0.30%	Titration		
42	<i>Aster fataricus</i> Linne fil CP RADIX ET RHIZOMA ASTERIS	Shionone ↑ 0.10%	HPLC (ODS column)	1) acetonitrile / water (96 : 4) 2) 40'	1) 10% sulfuric acid in ethanol 2) 110' 3) UV 390 and 650 nm
43	<i>Cassia angustifolia</i> Vahl, C. <i>acutifolia</i> Desile CP FOLIUM SENNAE JP SENNAE FOLIUM KP SENNAE FOLIUM	Sennoside B ↑ 2.5% Total Sennosides (sennoside A and sennoside B) ↑ 1.0% Total Sennosides (sennoside A and sennoside B) ↑ 1.0%	Absorption HPLC (ODS column, I.D. 4,6 mm x 15 cm, 5 mm) HPLC (ODS column, I.D. 4-6 mm x 15-25 cm, 5-10 mm)	0.5% magnesium acetate in methanol 1) 2.45 g of tetra- <i>n</i> -heptylammonium bromide in 1000 mL of a mixture of dilute 1 mol/L acetic acid-sodium acetate buffer pH 5.0 (1 in 10) / acetonitrile (17 : 8) 2) 50' 3) adjust flow rate to elute sennoside A at ca. 26 min 1) 2.45 g of tetra- <i>n</i> -heptylammonium bromide in 1000 mL of a mixture of dilute 1 mol/L acetic acid-sodium acetate buffer pH 5.0 (1 in 10) / acetonitrile (17 : 8) 2) 50' 3) adjust flow rate to elute sennoside A at ca. 26 min	UV 515 nm UV 340 nm
44	<i>Cassia obtusifolia</i> Linne, C. <i>tora</i> Linne CP SEMEN CASSIAE	Crysofhanol ↑ 0.080%	HPLC (ODS column)	methanol / 0.1% phosphoric acid solution (85 : 15)	UV 254 nm
45	<i>Chrysanthemum indicum</i> Linne CP FLOS CHRYSANTHEMI INDICI	Buddleioside ↑ 0.80%	HPLC (ODS column)	methanol / water / glacial acetic acid (26 : 23 : 1)	UV 334 nm
46	<i>Citrus aurantium</i> Linne CP FRUCTUS AURANTII IMMATURUS	Synephrine ↑ 0.30%	HPLC (ODS column)	methanol / potassium dihydrogen phosphate solution (50 : 50)	UV 275 nm
47	<i>Cnidium monnieri</i> Cusson CP FRUCTUS CNIDII	Osthol ↑ 1.0%	HPLC (ODS column)	acetonitrile / water (85 : 35)	UV 322 nm
48	<i>Coix lacryma-jobi</i> Linne var. <i>ma-yuen</i> Stapf CP SEMEN COICIS	Glycerin trioleate ↑ 0.50%	HPLC (ODS column)	acetonitrile / dichloromethane (65 : 35)	Evaporative Light Scattering method
49	<i>Craegus pinnatifida</i> Bunge var. <i>typica</i> Schneider CP FRUCTUS CRATAEGI	Citric acid ↑ 5.0%	Titration		
50	<i>Crocus sativus</i> Linne CP STIGMA CROCI JP CROCUS	Crocin I+II ↑ 10.0% Crocin (Content of active principle)	HPLC (ODS column) Absorption	methanol / water (45 : 55) 0.098 g of carbochrome sodium sulfonate in water to 100 mL	UV 440 nm UV 438 nm
51	<i>Gentiana scabra</i> Bunge CP RADIX ET RHIZOMA GENTIANAE	Gentiopicroin ↑ 1.0%	HPLC (ODS column)	methanol / water (3 : 7)	UV 270 nm
52	<i>Lindera aggregata</i> (Sims) Kosterm. CP RADIX LINDERAE	Linderane ↑ 0.030%	HPLC (ODS column)	acetonitrile / water (56 : 44)	UV 235 nm

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53	<i>Lycium barbarum</i> Linne, <i>L. chinense</i> Miller				
	CP FRUCTUS LYCHII	Glucose ↑ 1.8%, Betaine ↑ 0.30%	Glucose (Absorption), Betaine [TLC (Silica gel TLC)]	Glucose (80% ethanol), Betaine [acetone / absolute ethanol / hydrochloric acid (10 : 6 : 1)]	Glucose (UV 490 nm), Betaine (UV 515, 590 nm)
	KP LYCHII FRUCTUS	Betaine ↑ 0.5%	HPLC (ODS column, I.D. 4-6 mm x 1) 15-25 cm, 5-10 mm	acetonitrile / water (85 : 15) 2) 20' 3) 1.0 mL/min	UV 210 nm
54	<i>Peucedanum praeruptorum</i> Dunn, <i>P. decursivum</i> Maxim.				
	CP RADIX PEUCEDANI	Præuptorin A ↑ 0.90%	HPLC (ODS column)	methanol / water (75 : 25)	UV 321 nm
55	<i>Pharbitis nil</i> Choisy				
	CP SEMEN PHARBITIDIS	Caffeic acid+Caffeic acid ethyl ester ↑ 0.20%	HPLC (ODS column)	Solution A: acetonitrile, Solution B: 0.04% phosphoric acid solution, 0-12 min (A 13 : B 87), 12-13 min (A 13-54 : B 87-46), 13-19 min (A 54 : B 46)	UV 325 nm
56	<i>Phellodendron amurense</i> Ruprecht, <i>P. chinense</i> Schneider				
	CP CORTEX PHELLODENDRI AMURENSIS	Berberine ↑ 0.6%	HPLC (ODS column)	acetonitrile / 0.1% phosphoric acid solution (50 : 50)	UV 265 nm
	CP CORTEX PHELLODENDRI CHINENSIS	Berberine ↑ 3.0%	HPLC (ODS column)	acetonitrile / 0.1% phosphoric acid solution (50 : 50)	UV 265 nm
	JP PHELLODENDRI CORTEX	Berberine ↑ 1.2%	HPLC (ODS column, I.D. 4-6 mm x 1) 15-25 cm, 5-10 mm	3.4 g of monobasic potassium phosphate and 1.7 g of sodium lauryl sulfate in water to 1000 mL / acetonitrile (1 : 1) 2) 40' 3) adjust flow rate to elute berberine at ca. 10 min	UV 345 nm
	KP PHELLODENDRI CORTEX	Berberine ↑ 0.6%	HPLC (ODS column, I.D. 4-6 mm x 1) 15-25 cm, 5-10 mm	3.4 g of monobasic potassium phosphate and 1.7 g of sodium lauryl sulfate in water to 1000 mL / acetonitrile (1 : 1) 2) 40' 3) adjust flow rate to elute berberine at ca. 10 min	UV 345 nm
57	<i>Piper nigrum</i> Linne				
	CP FRUCTUS PIPERIS	Piperine ↑ 3.0%	HPLC (ODS column)	methanol / water (77 : 23)	UV 343 nm
58	<i>Polygala tenuifolia</i> Willdenow				
	CP RADIX POLYGALAE	Polygalic acid ↑ 0.70% (HPLC)	HPLC (ODS column)	methanol / 0.2% phosphoric acid solution (70 : 30)	UV 210 nm
59	<i>Prunus mume</i> Siebold et Zuccarini				
	CP FRUCTUS MUME	Citric acid ↑ 15.0%	Titration		
60	<i>Pueraria lobata</i> Ohwi				
	CP RADIX PUERARIAE LOBATAE	Puerarin ↑ 2.4% (HPLC)	HPLC (ODS column)	methanol / water (25 : 75)	UV 250 nm
	JP PUERARIAE RADIX	Puerarin ↑ 2.0% (HPLC)	HPLC (ODS column, I.D. 4.6 mm x 1) 15 cm, 5 mm	0.05 mol/L sodium dihydrogen phosphate TS / acetonitrile (9 : 1) 2) 40' 3) adjust flow rate to elute puerarin at ca. 15 min	UV 250 nm
	KP PUERARIAE RADIX	Puerarin ↑ 2.0% (HPLC)	HPLC (ODS column, I.D. 4-6 mm x 1) 15-25 cm, 5-10 mm	methanol / water (25 : 75) 2) 15-25' 3) 1.0 mL/min	UV 254 nm
61	<i>Rehmannia glutinosa</i> Liboschitz				
	CP RADIX REHMANNIAE	Catalpol ↑ 0.20% (HPLC)	HPLC (ODS column)	acetonitrile / 0.1% phosphoric acid solution (1 : 99)	UV 210 nm
62	<i>Salvia miltiorrhiza</i> Bunge				
	CP RADIX ET RHIZOMA SALVIAE MILTIORRHIZAE	Tanshinone IIA ↑ 0.20%, Salvinoic acid B ↑ 3.0%	HPLC (ODS column)	Tanshinone IIA [methanol / water (75 : 25)], Salvinoic acid B [methanol / acetonitrile / formic acid / water (30 : 10 : 1 : 59)]	Tanshinone IIA (UV 270 nm), Salvinoic acid B (UV 286 nm)
63	<i>Saposhnikovia divaricata</i> Schischkin				
	CP RADIX SAPOSHNIKOVIAE	Cimicifugoside+5-Methoxyvisaminol ↑ 0.24%	HPLC (ODS column)	methanol / water (40 : 60)	UV 254 nm
64	<i>Saussurea lappa</i> Clarke				
	CP RADIX AUCKLANDIAE	Costunolide + Dehydrocostuslactone ↑ 1.8%	HPLC (ODS column)	methanol / water (65 : 35)	UV 225 nm
65	<i>Schizonepeta tenuifolia</i> Briquet				
	CP SPICA SCHIZONEPETAE	Pulegone ↑ 0.080%	HPLC (ODS column)	methanol / water (80 : 20)	UV 252 nm
66	<i>Scrophularia ningpoensis</i> Hemsley, <i>S. buergeriana</i> Miqel				
	CP RADIX SCROPHULARIAE	Hrapagoside ↑ 0.050%	HPLC (ODS column)	Solution A: acetonitrile, Solution B: 1% acetic acid solution, 0-20 min (A 20-50 : B 80-50)	UV 278 nm
67	<i>Sophora flavescens</i> Aiton				
	CP RADIX SOPHORAE FLAVESCENS	Matrine+Oxytmatrine ↑ 1.2%	HPLC (ODS column)	acetonitrile / absolute ethanol / 3% phosphoric acid solution (80 : 10 : 10)	UV 220 nm
68	<i>Soptora japonica</i> Linne				
	CP FLOS SOPHORAE	Total flavonoids ↑ 8.0%, Rutin ↑ 6.0%	Total flavonoids (Absorption) Rutin [HPLC (ODS column)]	Total flavonoids (methanol), Rutin [methanol / 1% glacial acetic acid solution (32 : 68)]	Total flavonoids (UV 500 nm), Rutin (UV 257 nm)
69	<i>Vitex trifolia</i> Linne				
	CP FRUCTUS VITICIS	Vitexicarpin ↑ 0.030%	HPLC (ODS column)	methanol / 0.4% phosphoric acid solution (60 : 40)	UV 258 nm