



Reference Substances for Herbal Products

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Proof of Quality for Markers

Our Services

As one of the leading manufacturers internationally, PhytoLab offers a broad portfolio of over 1,000 extensively documented herbal reference substances. Our product range reflects the whole diversity of natural product chemistry – from A for Anthocyanins to X for Xanthenes, PhytoLab offers you numerous representatives of all classes of natural substances

phyproof® Reference Substances are **Primary Reference Substances** as defined by the European Pharmacopoeia and other international organizations.

phyproof® Reference Substances are delivered at no extra cost together with:

- ▶ a **data sheet** with general information including the structural formula, molecular formula, molecular weight, CAS registry number, as well as the recommended storage conditions, handling instructions, and general safety information
- ▶ a **certificate of analysis** usually including*
 - a description of general properties
 - a list of the identity tests the substance passed
 - a certified absolute content considering chromatographic purity as well as content of water, residual solvents and inorganic impurities

* Very few exceptions apply to phyproof® Reference Substances available in limited quantities only. For detailed information on the analytical documentation delivered with each reference substance please visit our webshop at <http://phyproof.phytolab.de> or contact our reference substance team.

Material safety data sheets (MSDS) are automatically provided with hazardous substances and are available for all other phyproof® Reference Substances upon request.

Furthermore, **the exact eight with two decimals** is given on the label of each phyproof® Reference Substance vial, thus allowing the preparation of well-defined standard solutions without losing any valuable material.

For **marketing authorization purposes** we deliver phyproof® Reference Substances upon request with full documentation (CTD module 3.2.S.5 /3.2.P.6) including the following data and information:

- ▶ NMR (¹H and ¹³C) incl. spectra interpretation
- ▶ LC-MS/MS or GC-MS incl. spectra interpretation
- ▶ FT-IR
- ▶ TLC
- ▶ elemental analysis
- ▶ two independent chromatographic methods, fully described and validated
- ▶ water content (coulometric Karl Fischer titration)
- ▶ residual solvents (headspace GC)
- ▶ inorganic impurities (ICP-MS)

If you need a reference substance that you cannot find in our current range, we will check availability with our partners worldwide, isolate the required substance for you from natural sources, or if necessary produce it synthetically.

If you are looking for a reliable source for natural products and herbal reference substances we at PhytoLab can guarantee excellent service. You can rely on PhytoLab expertise of more than 30 years.

Our experience is your advantage!

More information available on the internet

Because the range of **phyproof**[®] Reference Substances is expanding all the time, you will find the most up-to-date information relating to the currently available reference substance spectrum at <http://phyproof.phytolab.de>. Furthermore, you can use the **phyproof**[®] web shop as a source of information concerning the physico-chemical data of the offered substances, and as a convenient means of purchasing online. In addition, registered customers can download an exemplary certificate of analysis and a material safety data sheet for each substance.



CATALOGUE ORDER FORM (please fax to +49 9163 88-456)

Please send your full **phyproof**[®] Reference Substance Catalogue to:

Name	Company/University
Street address	ZIP Code
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and e-mail a PDF version to

For further information please contact our reference substance team:

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Aloe (<i>Aloe sp.</i>)		Reference Substance (Product #)	
		Aloe emodin (89157) Aloin A (89558)	Aloin B (83206) Chrysophanol (89378)
Andrographis (<i>Andrographis paniculata</i>)		Reference Substance (Product #)	
Chirette verte		Andrograpanin (89560) Andrographolide (89561)	14-Deoxy 11,14-didehydroandrographolide (89631) Neoandrographolide (89740)
Anise (<i>Pimpinella anisum</i>)		Reference Substance (Product #)	
Anice	Anis vert	trans-Anethole (89158)	Isovitexin (89233)
Anis	Erva doce	Apigenin 7-glucoside (89160) Chlorogenic acid (89175) Cryptochlorogenic acid (80393) Estragole (82205) Homoorientin (89709)	Luteolin (89245) Luteolin 7-glucoside (89724) Neochlorogenic acid (80504) Quercetin 3-glucuronide (80349) Rutin (89270)
Artichoke (<i>Cynara scolymus</i>)		Reference Substance (Product #)	
Alcachofa	Artichaut	trans-Caffeic acid (89547)	3,5-Dicaffeoylquinic acid (80426)
Alcachofera	Artischocke	Chlorogenic acid (89175)	4,5-Dicaffeoylquinic acid (80427)
Alcachofra	Carciofo	Cryptochlorogenic acid (80393) Cynarin (89179) 1,5-Dicaffeoylquinic acid (82221) 3,4-Dicaffeoylquinic acid (80425)	Luteolin (89245) Luteolin 7-glucoside (89724) Neochlorogenic acid (89504) Rutin (89270)
Ashwagandha (<i>Withania somnifera</i>)		Reference Substance (Product #)	
Bufera	Schlafbeere	12-Deoxywithastramonolide (80422)	Withanone (82683)
Ginseng indiano	Winterkirsche	Withaferin A (89824) Withanolide A (80556) Withanolide B (80557)	Withanoside IV (80632) Withanoside V (80633)
Astragalus (<i>Astragalus sp.</i>)		Reference Substance (Product #)	
Astragale	Astragalo	Astragaloside I (89572) Astragaloside II (89573) Astragaloside III (80357) Astragaloside IV (89377) Calycosin (82491)	Calycosin 7-glucoside (82492) Cycloastragenol (82509) Formononetin (89528) Ononin (82359)
Bearberry (<i>Arctostaphylos uva-ursi</i>)		Reference Substance (Product #)	
Busserole	Uva de oso	Arbutin (89510)	Gallic acid (89198)
Echte Bärentraube	Uva ursi	Ellagic acid (89653)	Hydroquinone (80712)
Gayuba	Uva Ursina		
Bilberry (<i>Vaccinium myrtillus</i>)		Reference Substance (Product #)	
Arandano	Mirtillo	Cyanidin chloride (80022)	Malvidin 3-glucoside chloride (89728)
Blaubeere	Mirtilo	Cyanidin 3-galactoside chloride (89463)	Pelargonidin chloride (80084)
Blueberry	Myrtille	Cyanidin 3-glucoside chloride (89616)	Peonidin chloride (80085)
Heidelbeere		Delphinidin chloride (89625) Delphinidin 3-galactoside chloride (89506) Delphinidin 3-glucoside chloride (89627) Malvidin chloride (80083)	Peonidin 3-glucoside chloride (89754) Petunidin 3-glucoside chloride (89755) Procyanidin A2 (83223) trans-Pterostilbene (83261)
Birch (<i>Betula pendula</i>)		Reference Substance (Product #)	
Abedul	Birke	Betulin (89581)	Lupeol (89722)
Betulla	Bouleau	Betulinic acid (89529) Hyperoside (89227)	Quercitrin (89346)
Bitter orange (<i>Citrus aurantium</i>)		Reference Substance (Product #)	
Arancio	Fleur d'oranger	Eriocitrin (89194)	Nobiletin (80858)
Azahar	Flor de laranjeira	Hesperetin (89222)	Nomilin (80507)
Bigaradier	Laranja amarga	Hesperidin (89707)	Obacunone (80509)
Bitterorange	Naranja amarga	Limonin (89379)	Poncirin (82628)
Chinotto	Pomeranze	Naringenin (89738) Naringin (89739) Narirutin (83339) Neohesperidin (89741)	Sinensetin (89278) Synephrine (89386) Tangeretin (89803)
Black cohosh (<i>Cimicifuga racemosa</i>)		Reference Substance (Product #)	
Actées à grappes noires	Traubensilberkerze	Actein (89154) Cimifugin (89387) Cimigenol 3- α -L-arabinoside (83329)	Cimigenol 3- β -D-xyloside (83330) 27-Deoxyactein (89183) trans-Isoferulic acid (89717)
Boldo (<i>Peumus boldus</i>)		Reference Substance (Product #)	
Bourdaïne		Boldine (80145)	

This listing is a small selection only. For our complete product range please refer to our **phyproof®** Reference Substances catalogue or visit our webshop at <http://phyproof.phytolab.de>.

Boswellia (<i>Boswellia serrata</i>)		Reference Substance (Product #)	
Incienso Indischer Weihrauch	Olibano	3-O-Acetyl α -boswellic acid (89555) 3-O-Acetyl β -boswellic acid (89152) 3-O-Acetyl 9,11-dehydro β -boswellic acid (83240) 3-O-Acetyl 11-keto- β -boswellic acid (89153)	α -Boswellic acid (89585) β -Boswellic acid (89454) 11-keto- β -Boswellic acid (89169) Serratol (89884)
Broccoli (<i>Brassica oleracea</i>)		Reference Substance (Product #)	
Broccolo Brócoli	Brokkoli	Glucoraphanin potassium salt (89215)	
Buckthorn (<i>Rhamnus frangula</i>)		Reference Substance (Product #)	
Bourdaine Faulbaum	Frangola Frángula	Chrysophanol (89378) Emodin (89191) Frangulin A (89665)	Frangulin B (89196) Physcion (89757)
Burdock (<i>Arctium lappa</i>)		Reference Substance (Product #)	
Bardana Grande bardane	Große Klette	Arctigenin (80354)	Arctiin (89531)
Butcher's broom (<i>Ruscus aculeatus</i>)		Reference Substance (Product #)	
Fragon Petit houx Pungitopo	Rusco Stechender Mäusedorn	Neuroscogenin (89253)	Ruscogenin (89268)
Calendula (<i>Calendula officinalis</i>)		Reference Substance (Product #)	
Ringelblume	Souci officinal	β -Amyrin (80292) Faradiol (82536) Hyperoside (89227) Isorhamnetin 3-neohesperidoside (82568) Isorhamnetin 3-rutinoside (83337)	Oleanolic acid (89383) Rutin (89270) β -Sitosterol (89283) Stigmasterol (82658)
Cat's claw (<i>Uncaria tomentosa</i>)		Reference Substance (Product #)	
Katzenkralle Liane du Pérou	Uña de gato Unha de gato	Isomitraphylline (89718) Isorhynchophylline (80483) Mitraphylline (89736) Rhynchophylline (80526)	Uncarine C (89814) Uncarine D (89815) Uncarine E (89816)
Cayenne (<i>Capsicum annuum</i>)		Reference Substance (Product #)	
Callena Cayena	Peperoncino Piment	Capsaicin (89520) Dihydrocapsaicin (89647)	Nordihydrocapsaicin (89254) N-Vanillylnonamide (89820)
Chamomile (<i>Chamomilla recutita</i>)		Reference Substance (Product #)	
Camomila Camomilla Camomille	Kamille Manzanilla	Apigenin (89159) Apigenin 7-glucoside (89160) (-)- α -Bisabolol (80005) Bisabololoxide A (89168)	Chamazulene (89174) Matricin (89248) 7-Methoxycoumarin (89733) Umbelliferone (80098)
Chaste tree (<i>Vitex agnus-castus</i>)		Reference Substance (Product #)	
Agnocasto Gattilier Keuschlamm	Mönchspfeffer Sauzgatillo	Agnuside (89155) Aucubin (89163)	Casticin (89173)
Cinnamon (<i>Cinnamomum sp.</i>)		Reference Substance (Product #)	
Canela Cannella	Cannelle Zimt	(+)-Catechin (89172) trans-Cinnamic acid (89608) Cinnamtannin A2 (83372) trans-p-Coumaric acid (89498) Coumarin (80017) (-)-Epicatechin (89192) Eugenol (80715)	trans-Ferulic acid (89663) 2-Methoxycinnamaldehyde (83155) Procyanidin A2 (83223) Procyanidin B1 (89764) Procyanidin B2 (89552) Procyanidin C1 (89537) Protocatechuic acid (89766)
Cocoa (<i>Theobroma cacao</i>)		Reference Substance (Product #)	
Cacao Cacau	Kakao	Caffeine (89591) (+)-Catechin (89172) Chlorogenic acid (89175) Cinnamtannin A2 (83372) (-)-Epicatechin (89192) Procyanidin A2 (83223)	Procyanidin B1 (89764) Procyanidin B2 (89552) Procyanidin C1 (89537) Rutin (89270) Theobromine (89808) Theophylline (82668)

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Coffee (<i>Coffea sp.</i>)		Reference Substance (Product #)	
Café Caffè	Kaffee	Cafestol (82294) Caffeine (89591) Chlorogenic acid (89175) Cryptochlorogenic acid (80393) 3,4-Dicaffeoylquinic acid (80425) 3,5-Dicaffeoylquinic acid (80426)	4,5-Dicaffeoylquinic acid (80427) Kahweol (82293) 16-O-Methylcafestol (89734) Neochlorogenic acid (80504) Theophylline (82668) Trigonelline chloride (80548)
Cola nut tree (<i>Cola sp.</i>)		Reference Substance (Product #)	
Kola Noix de cola	Noz de cola Nuez de cola	Caffeine (89591) (+)-Catechin (89172) (-)-Epicatechin (89192)	Theobromine (89808) Theophylline (82668)
Curcuma (<i>Curcuma longa</i>)		Reference Substance (Product #)	
Gelbwurzel		Bisdemethoxycurcumin (89582) Curcumin (89180)	Demethoxycurcumin (89628) Zerumbone (83418)
Dandelion (<i>Taraxacum officinale</i>)		Reference Substance (Product #)	
Dente de leão Diente de león Löwenzahn	Pissenlit Tarassaco	Apigenin 7-glucoside (89160) Faradiol (82536)	Luteolin 7-glucoside (89724) Taraxasterol acetate (80542)
Devil's claw (<i>Harpagophytum procumbens</i>)		Reference Substance (Product #)	
Artiglio del diavolo Garra del diablo Garra do diabo	Griffe du diable Harpagofito Teufelskralle	6-Acetylacteoside (89554) 8-p-Coumaroylharpagide (89178) Harpagide (89703)	Harpagoside (89218) Isoverbascoside (89232) Verbascoside (89289)
Dong quai (<i>Angelica sinensis</i>)		Reference Substance (Product #)	
Angélique de Chine		Bergapten (89865) trans-Ferulic acid (89663) Imperatorin (89715)	Z-Ligustilide (89242) Osthole (89747) Psoralen (89770)
Echinacea (<i>Echinacea sp.</i>)		Reference Substance (Product #)	
Coneflower Echinacée	Equinácea Sonnenhut	Caftaric acid (89170) Chicoric acid (89177) Chlorogenic acid (89175) Cynarin (89179) 3,4-Dicaffeoylquinic acid (80425)	3,5-Dicaffeoylquinic acid (80426) 4,5-Dicaffeoylquinic acid (80427) Dodeca 2E,4E,8Z,10E,Z-tetraenoic acid isobutylamide (89187) Echinacoside (89188)
Elderberry (<i>Sambucus nigra</i>)		Reference Substance (Product #)	
Holunder Sabugueiro Sambuco	Sáuco Sureau noir	trans-Caffeic acid (89547) trans-p-Coumaric acid (89498) Cyanidin 3,5-diglucoside chloride (89615) Cyanidin 3-glucoside chloride (89616) Cyanidin 3-sambubioside chloride (89617) trans-Ferulic acid (89663)	Hyperoside (89227) Kaempferol (89235) Kaempferol 3-glucoside (89237) Quercetin (89262) Quercetin 3-glucoside (89230) Rutin (89270)
Eyebright (<i>Euphrasia officinalis</i>)		Reference Substance (Product #)	
Augentrost Eufrasia	Euphrase	Aucubin (89163) Catalpol (89595)	Geniposide (89675)
Fennel (<i>Foeniculum vulgare</i>)		Reference Substance (Product #)	
Fenchel Fenouil Finocchio	Funcho Hinojo	trans-Anethole (89158) Chlorogenic acid (89175) Cryptochlorogenic acid (80393) Estragol (82205) (-)-Fenchone (82541) Guaiaverin (80986)	Neochlorogenic acid (80504) α -Pinene (89257) Quercetin 3-glucoside (89230) Quercetin 3-glucuronide (80349) Rutin (89270)
Fenugreek (<i>Trigonella foenum-graecum</i>)		Reference Substance (Product #)	
Alholva Bockshornklee Feno grego	Fenouil Fieno greco Trebol rosso	Dioscin (89648) Diosgenin (89649) Homoorientin (89709) Isovitexin (89233) Protodioscin (80522)	Quercetin 3-glucoside (89230) Trigonelline chloride (80548) Vitexin (89290) Yamogenin (80634)
Feverfew (<i>Tanacetum parthenium</i>)		Reference Substance (Product #)	
Fieberkraut Grande camomille Mutterkraut	Partenio Tanaceto	Parthenolide (89255)	

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Flaxseed (<i>Linum usitatissimum</i>)		Reference Substance (Product #)	
Leinsamen Linaza Lin cultivé	Linhaça Lino	Enterodiol (80436) Enterolactone (80437) (+)-Lariciresinol (80484)	(-)-Matairesinol (80497) (-)-Secoisolariciresinol (80532) Secoisolariciresinol diglucoside (80533)
Garcinia (<i>Garcinia cambogia</i>)		Reference Substance (Product #)	
		(-)-Hydroxycitric acid lactone (80473)	
Garlic (<i>Allium sativum</i>)		Reference Substance (Product #)	
Aglio Ail Ajo	Alho Knoblauch	L-(+/-)-Alliin (89470)	
Gentian (<i>Gentiana lutea</i>)		Reference Substance (Product #)	
Enzian Genciana Genciano	Gentiane Genziana	Amarogentin (80178) Gentiopicroside (89512) Isogentisin (83239)	Sweroside (89802) Swertiamarin (89513)
Ginger (<i>Zingiber officinale</i>)		Reference Substance (Product #)	
Gengibre Gingembre Ingwer	Jengibre Zenzero	6-Gingerol (89201) 8-Gingerol (89202) 10-Gingerol (89203)	6-Shogaol (89792) Zerumbone (83418)
Ginkgo (<i>Ginkgo biloba</i>)		Reference Substance (Product #)	
		(-)-Bilobalide (89167) Ginkgetin (83501) Ginkgolic acid C13:0 (89678) Ginkgolic acid C15:1 (89522) Ginkgolic acid C17:1 (89207) Ginkgolic acids RN (89480) Ginkgolide A (89204) Ginkgolide B (89205) Ginkgolide C (89206)	Ginkgolide J (89329) Ginkgotoxin hydrochloride (82638) Isoginkgetin (83513) Isorhamnetin (89314) Kaempferol (89235) Quercetin (89262) Rutin (89270) Sciadopitysin (83543)
Ginseng (<i>Panax ginseng</i>)		Reference Substance (Product #)	
Ginseng coreano	Raiz de ging seng	Ginsenoside Rb1 (89208) Ginsenoside Rb2 (89209) Ginsenoside Rc (89210) Ginsenoside Rd (89211)	Ginsenoside Re (89212) Ginsenoside Rf (89213) Ginsenoside Rg1 (89214)
Ginseng, American (<i>Panax quinquefolius</i>)		Reference Substance (Product #)	
Amerikanischer Ginseng Ginseng américain	Ginseng americano	Ginsenoside Rb1 (89208) Ginsenoside Rb2 (89209) Ginsenoside Rc (89210) Ginsenoside Rd (89211)	Ginsenoside Re (89212) Ginsenoside Rf (89213) Ginsenoside Rg1 (89214)
Goldenroot (<i>Rhodiola rosea</i>)		Reference Substance (Product #)	
Rhodiola	Rosenwurz	Rosarin (89903) Rosavin (89264)	Rosin (89902) Salidroside (89462)
Goldenseal (<i>Hydrastis canadensis</i>)		Reference Substance (Product #)	
Goldsiegelwurz Hidrastis Hydraste du Canada	Idraste Kanadische Gelbwurz	Berberine chloride dihydrate (89487) Hydrastine (89511)	Palmatine chloride (89490)
Gotu kola (<i>Centella asiatica</i>)		Reference Substance (Product #)	
Asiatischer Wassernabel		Asiatic acid (89569) Asiaticoside (89570)	Madecassic acid (80229) Madecassoside (80230)
Grape seed (<i>Vitis vinifera</i>)		Reference Substance (Product #)	
Pépins de raisin Semilla de uva	Traubenkerne	(+)-Catechin (89172) Cinnamtannin A2 (83372) (-)-Epicatechin (89192) Gallic acid (89198) trans-Polydatin (89312) Procyanidin B1 (89764)	Procyanidin B2 (89552) Procyanidin C1 (89537) trans-Pterostilbene (83261) trans-Resveratrol (89539) ε-Viniferin (83550)
Guarana (<i>Paullinia cupana</i>)		Reference Substance (Product #)	
		Caffeine (89591) (+)-Catechin (89172) (-)-Epicatechin (89192)	Theobromine (89808) Theophylline (82668)

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Guggul (<i>Commiphora sp.</i>)		Reference Substance (Product #)	
Mirra	Myrrhe	Guggulsterone E (89698)	Guggulsterone Z (89699)
Gymnema (<i>Gymnema silvestre</i>)		Reference Substance (Product #)	
Gimnema		Gymnemagenin (80466)	
Hawthorn (<i>Crataegus sp.</i>)		Reference Substance (Product #)	
Aubépine Espino blanco	Weißdorn	trans-Caffeic acid (89547) Chlorogenic acid (89175) Cinnamtannin A2 (83372) Hyperoside (89227) Procyanidin A2 (83223)	Procyanidin B2 (89552) Rutin (89270) Vitexin (89290) Vitexin 2''-rhamnoside (89291)
Hops (<i>Humulus lupulus</i>)		Reference Substance (Product #)	
Hopfen Houblon	Luppolo Lúpulo	Hulupinic acid (89899) Isoxanthohumol (89234) 6-Prenylningenin (80520)	8-Prenylningenin (89886) Xanthohumol (89292)
Horny goat weed (<i>Epimedium grandiflorum</i>)		Reference Substance (Product #)	
Epimède	Geiles Ziegenkraut	Epimedin A (80586) Epimedin B (80587) Epimedin C (80588)	Icariin (89714) Icaritin (80478)
Horse chestnut (<i>Aesculus hippocastanum</i>)		Reference Substance (Product #)	
Castanha da Índia Castaño de Indias Ippocastano	Marronnier Roskastanie	Escin (89871)	Esculin (89659)
Horsetail (<i>Equisetum arvense</i>)		Reference Substance (Product #)	
Cavalinha Cola de caballo Equiseto dei campi	Prêle des champs Schachtelhalm	Kaempferol 3-glucoside (89237)	Quercetin 3-glucoside (89230)
Ivy (<i>Hedera helix</i>)		Reference Substance (Product #)	
Edera Efeu Hera	Hiedra Lierre	Hederacoside C (89221) Hederagenin (89706)	α -Hederin (89220)
Java tea (<i>Orthosiphon aristatus</i>)		Reference Substance (Product #)	
Chá de Jáva Indischer Nierentee Katzenbart	Ortosifón Té de Java Thé de Java	Eupatorin (80451)	Sinensetin (89278)
Kava kava (<i>Piper methysticum</i>)		Reference Substance (Product #)	
Rauschpfeffer		Desmethoxyyangonin (89184) Dihydrokavain (89185) Dihydromethysticin (89186)	D,L-Kavain (89239) Methysticin (89250) Yangonin (89293)
Lavender (<i>Lavandula angustifolia</i>)		Reference Substance (Product #)	
Alfazema Lavanda	Lavande Lavendel	D,L-Camphor (80087) Eucalyptol (89195) Lavandulol (80887) Lavandulyl acetate (80653)	Linalool (80885) Linalyl acetate (89243) α -Terpineol (89872)
Lemon balm (<i>Melissa officinalis</i>)		Reference Substance (Product #)	
Mélisse	Zitronenmelisse	Apigenin 7-glucoside (89160) trans-Caffeic acid (89547) Chlorogenic acid (89175) Citral (82501) trans-p-Coumaric acid (89498) trans-Ferulic acid (89663)	Luteolin 7-glucoside (89724) Oleanolic acid (89383) Quercetin 3-glucoside (89230) Rosmarinic acid (89266) Ursolic acid (89541)
Licorice (<i>Glycyrrhiza sp.</i>)		Reference Substance (Product #)	
Alcaçuz Lakritz Liquirizia Palo dulce	Regaliz raíz Réglisse Süßholz	Formononetin (89528) Glabridin (80463) 18 α -Glycyrrhetic acid (82552) 18 β -Glycyrrhetic acid (89694) Glycyrrhizin (89217)	Isoliquiritigenin (89544) Isoliquiritin (80481) Licochalcone A (80486) Liquiritigenin (89543) Liquiritin (80490)

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Linden (<i>Tilia sp.</i>)		Reference Substance (Product #)	
Lime	Tila	trans-p-Caffeic acid (89547)	Kaempferol (89235)
Linde	Tilleul	Chlorogenic acid (89175)	Kaempferol 3-glucoside (89237)
Tiglio		trans-p-Coumaric acid (89498)	Protocatechuic acid (89766)
		Ellagic acid (89653)	Quercetin (89262)
		Esculin (89659)	Quercetin 3-glucoside (89230)
		Fraxin (89545)	Quercitrin (89346)
		Gallic acid (89198)	Rutin (89270)
		Hyperoside (89227)	Tiliroside (89809)
Maca (<i>Lepidium peruvianum</i>)		Reference Substance (Product #)	
		Glucotropaeolin potassium salt (89216)	
Mangosteen (<i>Garcinia mangostana</i>)		Reference Substance (Product #)	
Mangostane	Mangostino	Mangostin (89247)	
Mangostin	Mangoustan		
Meadowsweet (<i>Filipendula ulmaria</i>)		Reference Substance (Product #)	
Mädesüß	Reine-des-prés	Hyperoside (89227)	Quercetin 3-glucuronide (80349)
Olmaria	Ulmaria	Methyl salicylate (82239)	Rutin (89270)
		Quercetin (89262)	Spiraeoside (89798)
Milk thistle (<i>Silybum marianum</i>)		Reference Substance (Product #)	
Cardo mariano	Mariendistel	2,3-Dehydrosilybin A (82877)	Silybin (A+B mixture) (89280)
Chardon-Marie	Silimarina	2,3-Dehydrosilybin B (82878)	Silybin A (82653)
		Isosilybin (A+B mixture) (89231)	Silybin B (82654)
		Isosilybin A (82570)	Silychristin (89281)
		Isosilybin B (82571)	Silydianin (89282)
Olive (<i>Olea europaea</i>)		Reference Substance (Product #)	
Oliva	Olivo	Hydroxytyrosol (80152)	Oleoside 11-methyl ester (89652)
		Maslinic acid (83209)	Oleuropein (89338)
		Oleanolic acid (89383)	Tyrosol (80166)
Oregano (<i>Origanum vulgare</i>)		Reference Substance (Product #)	
Dorst	Origan	Carvacrol (80241)	Thymol (89287)
Origan	Wilder Majoran	Carvacrol methyl ether (83363)	
Passion flower (<i>Passiflora incarnata</i>)		Reference Substance (Product #)	
Maracujã	Passionsblume	Homoorientin (89709)	Orientin (89746)
Passiflore		Hyperoside (89227)	Schaftoside (83325)
		Isoschaftoside (83324)	Vitexin (89290)
		Isovitexin (89233)	
Pau D'Arco (<i>Tabebuia impetiginosa</i>)		Reference Substance (Product #)	
Ipê Roxo	Lapacho	p-Hydroxybenzoic acid (83051)	Vanillic acid (89819)
		Lapachol (89521)	Vanillin (82678)
Peppermint (<i>Mentha piperita</i>)		Reference Substance (Product #)	
Hortelã-pimenta	Menthe poivrée	trans-Caffeic acid (89547)	Isomenthone (89328)
Menta	Pfefferminze	trans-p-Coumaric acid (89498)	(-)-Menthol (89517)
		trans-Ferulic acid (89663)	(-)-Menthone (82241)
		(+)-Isomenthol (80016)	Rosmarinic acid (89266)
Plantain (<i>Plantago lanceolata</i>)		Reference Substance (Product #)	
Llanten	Spitzwegerich	Aucubin (89163)	Neochlorogenic acid (80504)
Siete venas		Catalpol (89595)	Verbascoside (89289)
		Chlorogenic acid (89175)	
Pomegranate (<i>Punica granatum</i>)		Reference Substance (Product #)	
Granada	Mangrano	Punicalagin (A+B mixture) (80524)	Punicalin (A+B mixture) (83532)
Granatapfel	Melograno		
Grenade	Romã		
Red clover (<i>Trifolium pratense</i>)		Reference Substance (Product #)	
Rotklee	Trèfle rouge	Biochanin A (80012)	Formononetin (89528)
Trebol de los prados	Trevo vermelho	Calycosin (82491)	Genistein (89199)
Trebol rojo	Trifoglio	Daidzein (89181)	Genistin (89200)
		Daidzin (89182)	Ononin (82359)

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Rhubarb (<i>Rheum sp.</i>)		Reference Substance (Product #)	
Rabarbaro Rhabarber	Rhubarbe Ruibarbo	Aloe emodin (89157) Chrysophanol (89378) Emodin (89191) Physcion (89757) Rhaponticin (89776)	Rhein (89385) Rhein 8-glucoside (83536) Sennoside A (89276) Sennoside B (89277)
Rosemary (<i>Rosmarinus officinalis</i>)		Reference Substance (Product #)	
Alecrim Romarin Romero	Rosmarin Rosmarino	Borneol (89583) (-)-Bornyl acetate (89584) trans-Caffeic acid (89547) D,L-Camphene (80063) D,L-Camphor (80087) Carnosic acid (89171) Carnosol (80150) p-Cymene (80836) Eucalyptol (89195)	Hispidulin (83335) Hispidulin 7-glucoside (83315) 12-O-Methylcarnosic acid (83416) α -Pinene (89257) β -Pinene (89335) Rosmanol (83268) Rosmarinic acid (89266) α -Terpineol (89872)
Sage (<i>Salvia officinalis</i>)		Reference Substance (Product #)	
Salbei	Sauge	Borneol (89583) (-)-Bornyl acetate (89584) trans-Caffeic acid (89547) D,L-Camphene (80063) D,L-Camphor (80087) Carnosol (80150) β -Caryophyllene (80717) Chlorogenic acid (89175) Eucalyptol (89195) Hispidulin (83335)	12-O-Methylcarnosic acid (83416) Oleanolic acid (89383) α -Pinene (89257) β -Pinene (89335) Rosmanol (83268) Rosmarinic acid (89266) (-)- α -Thujone (89286) α , β -Thujone (82669) Ursolic acid (89541)
Saw palmetto (<i>Serenoa repens</i>)		Reference Substance (Product #)	
Palmier nain Palmito	Sabal Sägepalme	β -Sitosterol (89283)	
Schizandra (<i>Schisandra chinensis</i>)		Reference Substance (Product #)	
Chinesischer Limonenbaum Chinesisches Spaltkörbchen	Chizandra	Schisandrol A (89885) Schisandrol B (80206) Schisantherin A (89316)	Schizandrin A (89785) Schizandrin B (89786)
Senna (<i>Cassia sp.</i>)		Reference Substance (Product #)	
Sen Sene	Sennes	Aloe emodin (89157) Emodin (89191) Rhein (89385) Rhein 8-glucoside (83536)	Sennoside A (89276) Sennoside A1 (83247) Sennoside B (89277) Sennoside C (80534)
Siberian ginseng (<i>Eleutherococcus senticosus</i>)		Reference Substance (Product #)	
Eleuterococco Eleuterococo Ginseng siberiano Ginseng siberiano	Ginseng sibérien Sibirischer Ginseng Taigawurzel	trans-Caffeic acid (89547) Chlorogenic acid (89175) Eleutheroside B (89189)	Eleutheroside E (89190) Isofraxidin (89229)
Soy (<i>Glycine max</i>)		Reference Substance (Product #)	
Soia Soja	Soya	Dadzein (89181) Daidzin (89182) Formononetin (89528) Genistein (89199)	Genistin (89200) Glycitein (89692) Glycitin (89693) Isoformononetin (83257)
St. John's wort (<i>Hypericum perforatum</i>)		Reference Substance (Product #)	
Hierva de San Juan Hipérico Johanniskraut	Iperico Millepertuis	Hyperforin, stable DCHA salt (89225) Hypericin (89226) Hyperoside (89227) Pseudohypericin (89261)	Quercetin (89262) Quercetin 3-glucoside (89230) Rutin (89270)
Stevia (<i>Stevia rebaudiana</i>)		Reference Substance (Product #)	
Süßkraut		Dulcoside A (82417) Isosteviol (82395) Rebaudioside A (80067) Rebaudioside B (82396) Rebaudioside C (82397) Rebaudioside D (82398)	Rebaudioside N (83218) Rubusoside (80078) Steviol (82262) Steviolbioside (82399) Stevioside (89800)

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Stinging nettle (<i>Urtica sp.</i>)		Reference Substance (Product #)	
Brennessel Ortiga Ortie	Ortiga Urtiga	L-Aspartic acid (80666) trans-Caffeic acid (89547) Caffeoylmalic acid (89238) Chlorogenic acid (89175) L-Glutamic acid (82551) Kaempferol 3-glucoside (89237)	Oleanolic acid (89383) Quercetin 3-glucoside (89230) Rutin (89270) Scopoletin (89516) β -Sitosterol (89283) β -Sitosterol D-glucoside (80538)
Tea (<i>Camellia sinensis</i>)		Reference Substance (Product #)	
Chá Tee Té	The Thé	Caffeine (89591) Camelliaside A (83483) Camelliaside B (83484) (+)-Catechin (89172) Chlorogenic acid (89175) (-)-Epicatechin (89192) (-)-Epicatechin 3-gallate (89193) (-)-Epigallocatechin (89655) (-)-Epigallocatechin 3-gallate (89656) Gallic acid (89198)	(-)-Gallocatechin (80096) (-)-Gallocatechin 3-gallate (89667) Theaflavin (83341) Theaflavin 3,3'-digallate (83344) Theaflavin 3-gallate (83342) Theaflavin 3'-gallate (83343) L-Theanine (82213) Theobromine (89808) Theogallin (83569) Theophylline (82668)
Thyme (<i>Thymus vulgaris</i>)		Reference Substance (Product #)	
Thym Thymian Timo	Tomilho Tomillo	Apigenin (89159) Apigenin 7-glucoside (89160) Borneol (89583) Carvacrol (80241) Carvacrol methyl ether (83363) p-Cymene (80836) Eucalyptol (89195) Linalool (80885)	Luteolin (89245) Luteolin 7-glucoside (89724) Oleanolic acid (89383) Rosmarinic acid (89266) α -Terpineol (89872) Thymol (89287) Ursolic acid (89541)
Tribulus (<i>Tribulus terrestris</i>)		Reference Substance (Product #)	
Castaña de agua Erdbeurzeldorn	Trêbol Tribule terrestre	Dioscin (89648) Diosgenin (89649)	Protodioscin (80522)
Valerian (<i>Valeriana officinalis</i>)		Reference Substance (Product #)	
Baldrian	Valériane	Acetoxyvaleric acid (89151) Hydroxyvaleric acid (89224)	Valeric acid (89288)
White willow (<i>Salix alba</i>)		Reference Substance (Product #)	
Salice alba Sauce	Saule blanc Silberweide	(+)-Catechin (89172) Eleutheroside B (89189)	Salicin (89782)
Yarrow (<i>Achillea millefolium</i>)		Reference Substance (Product #)	
Milenrama Mil folhas Milhojas	Millefeuille Millefoglio Schafgarbe	Apigenin (89159) Apigenin 7-glucoside (89160) Casticin (89173) Chamazulene (89174) Eucalyptol (89195) Guaiazulene (89697)	Isoschaftoside (83324) Luteolin (89245) Luteolin 7-glucoside (89724) Rutin (89270) Schaftoside (83325)
Yohimbe (<i>Pausinystalia yohimbe</i>)		Reference Substance (Product #)	
		Ajmalicine (82463)	Yohimbine hydrochloride (82685)

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