

# Dr. Duke's Phytochemical and Ethnobotanical Databases

## List of Plants for BETA-SITOSTEROL

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus esculentus	Fruit		150.0	-0.5971588891273873	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Abelmoschus moschatus	Seed				Wealth of India.
Abies spectabilis	Leaf				--
Abrus precatorius	Seed				Wealth of India.
Acacia senegal	Plant				Pakistan Encyclopedia Planta Medica. 1986.
Achillea millefolium	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Achyranthes bidentata	Root				--
Actinidia chinensis	Plant				--
Aesculus hippocastanum	Seed				Jim Duke's personal files.
Aesculus hippocastanum	Bark				Jim Duke's personal files.
Aesculus hippocastanum	Leaf				Jim Duke's personal files.
Agastache rugosa	Root				Jim Duke's personal files.
Agave sisalana	Leaf				Wealth of India.
Ageratum conyzoides	Plant				Wealth of India.
Aglaia odorata	Leaf				Wealth of India.
Agrimonia eupatoria	Shoot		25.0	-0.9699561923388506	--
Ailanthus altissima	Plant				--
Ajuga bracteosa	Shoot				Jim Duke's personal files.
Ajuga bracteosa	Plant				Wealth of India.
Albizia lebbek	Bark				Wealth of India.
Aleurites fordii	Plant				--
Alisma plantago-aquatica	Rhizome				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Allium cepa	Seed				Kintia, P. K., Degtiaryova, L. P., Balashova, N. N., Shvets, S. A. 1987. Sterols and Steroidal Glycosides of Bulb Onion Seeds. Fecs. Int. Conf. Chem. Biotechnol. Biol. Act. Nat. Prod., (Proc.) 3rd: 166-170.
Allium sativum var. sativum	Bulb	13.0	555.0	1.0	--
Allium ampeloprasum	Plant				--
Allium cepa	Seed Oil				Grujic-Injac, B., Basarevic-Dinic, L., Lajsic, S., Stefanovic, D. 1985. Chemical Analysis of Seed Oil of the Onion (Allium cepa). Hrana Ishrana, 25: 167-169 (Inst Ishr Vet Fak Belgrade, Yugoslavia)
Allium sativum var. sativum	Plant				--
Allium cepa	Bulb	120.0	510.0	-1.0	--
Alnus glutinosa	Bark				--
Aloe vera	Leaf				--
Aloe vera	Plant				--
Amaranthus spinosus	Leaf				Wealth of India.
Anacardium occidentale	Seed				--
Ananas comosus	Fruit		40.0	-0.7416857929866011	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Anastatica hierochuntica	Plant				--
Anethum graveolens	Seed Essent. Oil				--
Anethum graveolens	Root				--
Anethum graveolens	Seed				--
Anethum graveolens	Plant		490.0	-0.10551968168882546	--
Angelica sinensis	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
Angelica archangelica	Plant				--
Angelica archangelica	Seed	1.5	9.5	-0.627327401886418	--
Angelica archangelica	Fruit				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Anisomeles indica	Root				Wealth of India.
Annona muricata	Plant				--
Annona cherimola	Seed	10000.0	14000.0	4.7412403372639025	--
Apium graveolens	Seed		210.0	-0.550389634708716	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Apium graveolens	Pt		30.0		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Arachis hypogaea	Plant				--
Araucaria bidwillii	Flower				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
Arctium lappa	Plant				Jim Duke's personal files.
Arctostaphylos uva-ursi	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Areca catechu	Seed				--
Armoracia rusticana	Root		710.0	-0.25867676228885333	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Arnica montana	Flower				--
Artemisia dracunculus	Leaf				--
Artemisia herba-alba	Plant				--
Artemisia dracunculus	Shoot				--
Artemisia annua	Root				Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands
Artemisia dracunculus	Plant				Stitt, Paul. Why George should eat broccoli.
Artemisia annua	Shoot				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Artemisia vulgaris	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Artemisia annua	Plant				--
Arundo donax	Plant				--
Asarum canadense	Rhizome				--
Asclepias syriaca	Sprout Seedling				--
Asparagus lucidus	Root				--
Aspidosperma quebracho-blanco	Bark				--
Astragalus membranaceus	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
Astrocaryum vulgare	Seed Oil		783100.0	1.0	Szpiz, R. R., Pereira, D. A., Lago, R. C. A. 1980. Comparison Between Oils From Three Brazilian Palms. Bol. Rec. Cent. Technol. Agric. Aliment (Rio de Janeiro) 14: 33-46. Cent Technol Agric Aliment Empresa Brasil Pesqui Aropecu Rio de Janeiro, Brazil.
Avena sativa	Seed				--
Avena sativa	Plant				Stitt, Paul. Why George should eat broccoli.
Avena sativa	Leaf				--
Azadirachta indica	Flower				--
Azadirachta indica	Leaf				--
Bacopa monnieri	Plant				Wealth of India.
Balanites aegyptiacus	Bark				--
Beta vulgaris	Leaf		130.0	-1.0063608461922844	--
Beta vulgaris	Root				Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Boswellia serrata	Bark				Sabinsa: A series of well documented proprietary PR booklets, e.g. Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.
Brassica oleracea var. botrytis l.	Flower	120.0	1200.0	-0.7745775450534552	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Brassica rapa	Leaf	90.0	900.0	-0.5910886856520599	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Brassica juncea	Leaf	20.0	500.0	-0.8068144833352933	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Brassica oleracea var. capitata l.	Leaf	70.0	700.0	-0.6989515844936766	--
Brassica oleracea var. italica	Plant				Stitt, Paul. Why George should eat broccoli.
Brassica oleracea var. gemmifera	Leaf	170.0	1700.0	-0.15963709028559278	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Brassica oleracea var. botrytis l.	Plant				--
Brassica rapa	Root	50.0	500.0	-0.26375908041164936	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Caesalpinia pulcherrima	Flower				--
Cajanus cajan	Leaf				Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Calendula officinalis	Flower				--
Calotropis sp.	Bark				--
Camellia sinensis	Seed Oil				--
Camellia sinensis	Seed				--
Camellia sinensis	Leaf	2130.0	2230.0	0.1261995916446916	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Capparis spinosa	Plant				--
Capsella bursa-pastoris	Plant				--
Capsicum annuum	Fruit	60.0	1190.0	0.7692772928142692	--
Capsicum annuum	Plant				--
Capsicum frutescens	Fruit	60.0	70.0	-0.702269364661361	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Carica papaya	Fruit				Jim Duke's personal files.
Carica papaya	Leaf				Jim Duke's personal files.
Carica papaya	Flower				Jim Duke's personal files.
Carica papaya	Seed				Jim Duke's personal files.
Carica papaya	Seed Oil				Jim Duke's personal files.
Carum carvi	Seed		420.0	-0.4698064371659858	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Carum carvi	Root				--
Casimiroa edulis	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Catalpa longissima	Leaf				Tramil
Catharanthus roseus	Plant				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Caulophyllum thalictroides	Root				Jim Duke's personal files.
Ceiba pentandra	Bark				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Centaurea calcitrapa	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Centaurea cyanus	Flower				Jim Duke's personal files.
Centaureum erythraea	Plant				--
Centella asiatica	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Centella asiatica	Essential Oil		2000.0	1.0	Jim Duke's personal files.
Ceratonia siliqua	Seed				Wealth of India.
Chimaphila umbellata	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Chrysanthemum x morifolium	Flower				Wealth of India.
Cinchona spp	Bark				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Cinnamomum verum	Bark		210.0	-0.604451419169448	--
Citrullus lanatus	Fruit		10.0	-0.7811022213118411	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Citrullus colocynthis	Plant				--
Citrus sinensis	Fruit		170.0	-0.570881270243894	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Citrus limon	Fruit		80.0	-0.6891305552196143	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Citrus reticulata	Pericarp				--
Citrus limon	Plant				--
Citrus paradisi	Fruit		130.0	-0.6234365080108808	--
Citrus reticulata	Root				--
Clematis vitalba	Plant				--
Cnicus benedictus	Plant				--
Cnicus benedictus	Seed		243.0	-0.5377265608091442	Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Coccinia grandis	Fruit				--
Coccinia grandis	Leaf				--
Coccinia grandis	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cocos nucifera	Fruit		270.0	-0.43949317582642705	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Cocos nucifera	Seed Oil				Jim Duke's personal files.
Coffea arabica	Seed	520.0	530.0	-0.42759619083407946	--
Coix lacryma-jobi	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Commelina benghalensis	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Commiphora myrrha	Resin, Exudate, Sap				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Commiphora wightii	Plant				Jim Duke's personal files.
Conyza canadensis	Plant				--
Coriandrum sativum	Seed				--
Coriandrum sativum	Fruit		220.0	-0.5051872230351605	--
Corylus avellana	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Corylus avellana	Seed				--
Costus speciosus	Rhizome				--
Crataegus rhipidophylla	Flower	6500.0	7800.0	0.9253646230843826	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.



Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Crataegus laevigata</i>	Leaf	5100.0	6200.0	2.2672781336507843	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Crataegus rhipidophylla</i>	Leaf	5100.0	6200.0	2.2672781336507843	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Crataegus laevigata</i>	Flower	6500.0	7800.0	0.9253646230843826	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Croton lechleri</i>	Plant				--
<i>Cryptotaenia japonica</i>	Shoot				--
<i>Cucumis sativus</i>	Fruit				--
<i>Cucumis melo</i>	Fruit		160.0	-0.5840200796856407	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
<i>Cucurbita pepo</i>	Fruit		120.0	-0.6365753174526275	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
<i>Cucurbita pepo</i>	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cuminum cyminum</i>	Seed		300.0	-0.5158539786189745	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
<i>Curcuma longa</i>	Root		510.0	-0.26351706526294477	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
<i>Curcuma longa</i>	Rhizome				--
<i>Cuscuta reflexa</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cymbopogon flexuosus</i>	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cymbopogon citratus	Plant				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Cymbopogon parkeri	Plant				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Cynara cardunculus	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cytisus scoparius	Seed				--
Daphne genkwa	Flower				--
Daphne mezereum	Plant				--
Daucus carota	Root				--
Dendrobium nobile	Plant				--
Dictamnus albus	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Dioscorea villosa	Root	70.0	700.0	-0.2589187774375579	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Dodonaea viscosa	Seed				--
Duchesnea indica	Plant				--
Echinacea pallida	Root				Jim Duke's personal files.
Echinacea purpurea	Root				Jim Duke's personal files.
Echinacea angustifolia	Root				--
Echinacea spp	Shoot				Economic & Medicinal Plant Research, 5: 253.
Elaeagnus pungens	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
Elettaria cardamomum	Seed	360.0	480.0	-0.44678266643949144	--
Eleutherococcus senticosus	Root				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eleutherococcus senticosus	Root Bark				--
Equisetum arvense	Strobilus				Jim Duke's personal files.
Equisetum arvense	Plant				--
Eriobotrya japonica	Fruit	20.0	150.0	-0.5971588891273873	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Eschscholzia californica	Plant				--
Eucalyptus citriodora	Root		17.0	-0.2754484120940801	--
Eucalyptus citriodora	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Eucalyptus citriodora	Leaf				--
Eupatorium odoratum	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Euphorbia pulcherrima	Stem				--
Euphorbia hirta	Leaf				--
Euphorbia lathyris	Leaf				--
Euphorbia tirucalli	Stem				--
Euphorbia hirta	Stem				--
Euphrasia officinalis	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Fagopyrum esculentum	Seed	1640.0	1880.0	0.09043865051204356	--
Ficus carica	Leaf				--
Ficus carica	Fruit	270.0	1350.0	0.9794982438822163	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Foeniculum vulgare	Seed	310.0	340.0	-0.500504798134645	--
Foeniculum vulgare	Fruit				--
Fragaria spp	Fruit	100.0	1000.0	0.5196399134210818	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Fritillaria thunbergii</i>	Bulb				Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Fucus vesiculosus</i>	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Ganoderma lucidum</i>	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Ganoderma lucidum</i>	Fruit				--
<i>Gardenia jasminoides</i>	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Gaultheria procumbens</i>	Shoot				--
<i>Gaultheria fragrantissima</i>	Leaf				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
<i>Ginkgo biloba</i>	Seed				Jim Duke's personal files.
<i>Ginkgo biloba</i>	Pollen Or Spore				Jim Duke's personal files.
<i>Ginkgo biloba</i>	Leaf				Jim Duke's personal files.
<i>Glechoma hederacea</i>	Plant				Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
<i>Glycine max</i>	Seed	300.0	900.0	-0.28561627135403095	--
<i>Glycyrrhiza uralensis</i>	Root				--
<i>Glycyrrhiza glabra</i>	Shoot				--
<i>Glycyrrhiza glabra</i>	Root		500.0	-0.26375908041164936	--
<i>Glycyrrhiza glabra</i>	Plant				--
<i>Gossypium sp</i>	Seed				--
<i>Guarea rusbyi</i>	Plant				--
<i>Guazuma tomentosa</i>	Stem				--
<i>Guazuma tomentosa</i>	Leaf				--
<i>Guazuma ulmifolia</i>	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Guazuma tomentosa	Bark		270.0	0.6354489278448042	--
Harpagophytum procumbens	Tuber				--
Helianthus annuus	Seed	3490.0	3510.0	0.7159177552484736	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Helichrysum angustifolium	Flower				--
Helichrysum angustifolium	Stem				--
Heliotropium indicus	Plant				--
Hemidesmus indicus	Root				--
Hibiscus sabdariffa	Seed				--
Hibiscus syriacus	Bark				--
Hippophae rhamnoides	Seed	550.0	970.0	-0.2587552055064542	Abstract (See species file)
Holarrhena pubescens	Bark				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Holarrhena pubescens	Tissue Culture				--
Hordeum vulgare	Embryo				--
Hordeum vulgare	Plant				--
Hordeum vulgare	Sprout Seedling		980.0	1.3218930544492802	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Houttuynia cordata	Root				--
Houttuynia cordata	Shoot				--
Humulus lupulus	Plant				--
Hylocereus undatus	Plant				--
Hypericum perforatum	Shoot				--
Hypericum perforatum	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hyssopus officinalis	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Illicium verum	Fruit		930.0	0.427668247328855	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Inula helenium	Root				--
Iris x germanica	Rhizome				--
Jatropha gossypifolia	Plant				--
Jatropha curcas	Seed				--
Juglans nigra	Seed	870.0	880.0	-0.2932908615961957	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Juglans regia	Plant				--
Juglans regia	Seed	310.0	1765.0	0.046309756619596035	--
Juncus effusus	Plant				--
Juniperus communis	Fruit				--
Justicia adhatoda	Seed				--
Justicia gendarussa	Leaf				--
Kalanchoe pinnata	Leaf				--
Kalmia latifolia	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Lactuca virosa	Seed				--
Lactuca scariola	Seed				--
Lantana camara	Seed				--
Laurus nobilis	Leaf		1450.0	-0.2944657138376137	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Lawsonia inermis	Bark				--
Lawsonia inermis	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lepidium sativum	Seed				--
Lepidium meyenii	Root				--
Leptospermum scoparium	Shoot				--
Levisticum officinale	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ligustrum lucidum	Fruit				--
Linum usitatissimum	Seed		19.0	-0.6236819715213897	--
Liquidambar styraciflua	Resin, Exudate, Sap				--
Liquidambar orientalis	Resin, Exudate, Sap				--
Lycium chinense	Plant				--
Lycium chinense	Fruit				--
Lycium chinense	Flower		10200.0	1.5435254114981418	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Lycopersicon esculentum	Fruit				--
Lycopodium lucidulum	Plant		91.0	-0.9250302022502126	--
Lythrum salicaria	Plant				--
Maclura pomifera	Leaf				--
Maclura pomifera	Fruit		80.0	-0.6891305552196143	--
Maclura pomifera	Tissue Culture				--
Maclura pomifera	Root				--
Magnolia kobus	Seed				--
Malus domestica	Fruit	110.0	660.0	0.07292039240169416	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Malus domestica	Heart Wood				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Malus domestica	Seed				Fathy, M. M., Abd El Megid, R. M. 1995. A Comparative Study of the Lipid Contents and the Antimicrobial Activity of Certain Rosaceous Seeds. Zagazig J Pharm Sci, 4(2): 121-127.
Marrubium vulgare	Shoot				--
Marrubium vulgare	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Matricaria recutita	Flower				--
Medicago sativa	Seed				--
Medicago sativa	Plant				--
Medicago sativa	Seed Oil				--
Medicago sativa	Fruit		5.0	-0.7876716260327145	--
Melia azedarach	Root				--
Melilotus indica	Plant				--
Melissa officinalis	Tissue Culture				Gbolade, A.A. and Lockwood, G.B. 1991. The Constituents of Melissa officinalis L. Cultures. J. Ess. Oil Res., 3: 111-114.
Mentha spicata	Leaf				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha spicata	Shoot				--
Mirabilis jalapa	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Mitchella repens	Plant				--
Momordica charantia	Tissue Culture				Jim Duke's personal files.
Momordica charantia	Fruit				--
Monarda citriodora	Plant				--
Monarda didyma	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Morinda citrifolia	Tissue Culture		454.5	-0.6956812763733191	--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Morinda citrifolia	Leaf				--
Moringa oleifera	Stem				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Moringa oleifera	Seed				--
Morus alba	Leaf		2000.0	0.002157257976832335	--
Mucuna pruriens	Seed				--
Musa x paradisiaca	Leaf				Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Musa x paradisiaca	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Myristica fragrans	Aril		560.0		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Myristica fragrans	Seed		460.0	-0.4544572566816562	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Nardostachys jatamansi	Root				--
Nepeta cataria	Plant				--
Nepeta cataria	Shoot		900.0	1.3584708811769088	--
Nerium oleander	Plant				--
Nicotiana tabacum	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Nigella sativa	Seed		3218.0	0.6038687377128678	--
Nigella sativa	Seed Oil				--
Ocimum basilicum	Root		408.0	-0.2659856197797314	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum basilicum	Seed		527.0	-0.4287473793704042	--
Ocimum suave	Leaf				J. Nat. Prod. 44: 308.
Ocimum gratissimum	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ocimum basilicum	Stem		845.0	0.24120717836480773	--
Ocimum basilicum	Leaf	790.0	1705.0	-0.15694051781455237	--
Ocimum sanctum	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum basilicum	Sprout Seedling		230.0	-1.0962039963725738	--
Ocimum basilicum	Flower		1051.0	-0.8129550273341427	--
Ocimum tenuiflorum	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum canum	Shoot				=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp:ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Oenothera biennis	Seed	1186.0	2528.0	0.3390953743581826	--
Oenothera biennis	Fruit				--
Oenothera biennis	Inflorescence				--
Ophiopogon japonicus	Tuber				--
Opuntia ficus-indica	Seed Oil		680000.0	-1.0	--
Opuntia ficus-indica	Flower		400.0	-0.980631141191375	--
Opuntia ficus-indica	Stem				--
Origanum vulgare	Plant		1770.0	2.5234864995607373	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Origanum majorana	Plant	520.0	540.0	-0.002824127733764179	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Oryza sativa	Sprout Seedling				--
Oryza sativa	Juice				--
Pachira aquatica	Seed				--
Paeonia suffruticosa	Root Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
Paeonia moutan	Root Bark				--
Paeonia lactiflora	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Panax notoginseng	Root				--
Panax ginseng	Rhizome				--
Panax japonicus	Rhizome				--
Panax ginseng	Fruit				--
Panax quinquefolius	Plant				--
Panax ginseng	Root				--
Panax quinquefolius	Root				--
Papaver somniferum	Fruit				--
Papaver somniferum	Seed	520.0	550.0	-0.4199216005919147	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Perilla frutescens	Plant				Han, J. S. 1978. A Study on Sterol in Perilla frutescens. Yongnam Taehakkyo Nonmumjip Chayon Kwahak Pyon, 11: 211-215.
Perilla frutescens	Seed				Endo, S., Ishizaki, T., Kimata, M. 1993. Fatty Acid and Sterol Compositions in the Seeds of Perilla frutescens and Linum Usitatissimum. Takyo Gakugei Daigaku Kiyo Dai-4-Bumon, 45: 27-32.
Perilla frutescens	Shoot				Manandhar, M. D. 1981. Constituents of Perilla ocimoides Linn. J. Nep. Chem. Soc., 1(1): 18-20.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Persea americana</i>	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Petasites hybridus</i>	Root				--
<i>Petasites japonicus</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Petiveria alliacea</i>	Plant				Germosen-Robineau, L. (Ed.) 1997. Farmacopea Vegetal Caribena. Endacaribe, Tramil. Ediciones Emile Desormeaux, Martinique F.W.I. 360 pp.
<i>Petroselinum crispum</i>	Leaf	20.0	180.0	-0.9793951214818801	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
<i>Pfaffia paniculata</i>	Plant				Abstract (See species file)
<i>Pfaffia paniculata</i>	Root		7.8	-0.27567106603088826	--
<i>Phaseolus vulgaris</i>	Seed	910.0	980.0	-0.2549179103853718	--
<i>Phellodendron amurense</i>	Bark				--
<i>Phoenix dactylifera</i>	Pollen Or Spore				Abstract (See species file)
<i>Phyllanthus emblica</i>	Seed Oil				--
<i>Phyllanthus emblica</i>	Shoot				--
<i>Phyllanthus emblica</i>	Tissue Culture		5500.0	1.4141523521229236	--
<i>Phyllanthus emblica</i>	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Physalis peruviana</i>	Root				--
<i>Physostigma venenosum</i>	Seed				--
<i>Picrasma excelsa</i>	Bark				--
<i>Pimenta dioica</i>	Fruit	570.0	590.0	-0.01905127369053271	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
<i>Pimpinella anisum</i>	Tissue Culture				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pinellia ternata	Tuber				--
Pinus sylvestris	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pinus sylvestris	Plant				--
Pinus sylvestris	Pollen Or Spore				--
Pinus sylvestris	Shoot				--
Piper nigrum	Fruit	380.0	650.0	0.059781582959947475	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Piper methysticum	Rhizome				--
Piper nigrum	Stem		160.0	-1.327402794862025	--
Piper auritum	Leaf				Tramil
Piper methysticum	Root		166000.0	3.7415916306490002	--
Piper methysticum	Leaf				--
Piper nigrum	Leaf				--
Piscidia piscipula	Plant				--
Pistacia vera	Seed				--
Pisum sativum	Seed				--
Plantago ovata	Seed				--
Plantago psyllium	Seed				--
Plantago asiatica	Plant				--
Plumeria acutifolia	Bark				--
Polygonum multiflorum	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Polygonum multiflorum	Rhizome				--
Polygonum multiflorum	Shoot				--
Polypodium vulgare	Rhizome				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Portulaca oleracea	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Prosopis glandulosa	Stem				Zirvi, K. A., Jewers, K., Nagler, M. J. 1977. Phytochemical Investigation of Prosopis glandulosa Stems. Planta Med. Suppl. 32: 244-246.
Prosopis glandulosa	Flower				Ahmed, N., Razaq, S. 1986. Chemical Investigation of Prosopis glandulosa Flowers. Fitoterapia 57 6: 457.
Prunella vulgaris	Shoot		600.0	0.560153027400077	--
Prunella vulgaris	Leaf				--
Prunella vulgaris	Plant				--
Prunus domestica	Fruit	60.0	600.0	-0.005912464248786014	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Prunus persica	Leaf				--
Prunus armeniaca	Seed				--
Prunus dulcis	Seed	1220.0	1230.0	-0.15898553235831198	--
Prunus africana	Bark		177.0	-1.2863966100272868	--
Prunus armeniaca	Fruit	160.0	1300.0	0.9138041966734828	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Prunus spinosa	Fruit				--
Prunus cerasus	Plant				--
Psidium guajava	Fruit				--
Psidium guajava	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Psidium guajava	Heart Wood				--
Psidium guajava	Leaf Essent. Oil				--
Psidium guajava	Root				--
Psoralea corylifolia	Root				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Pterocarpus santalinus	Plant				--
Ptychopetalum olacoides	Root				Ito, Y., Hirayama, F., Aikawa, Y., Kondo, H., Sagara, K., Shoji, J. 1995. Constituents from Muira-Puama (The Roots of Ptychopetalum olacoides). Nat. Med. 49, 4: 487.
Ptychopetalum olacoides	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pueraria montana	Flower				--
Pueraria montana	Stem				--
Pueraria montana	Root				--
Punica granatum	Leaf				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Punica granatum	Stem Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Punica granatum	Fruit	16.0	800.0	0.2568637245861479	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Punica granatum	Flower				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
Punica granatum	Bark				--
Punica granatum	Seed				--
Quassia amara	Wood				--
Quercus robur	Bark				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Quercus alba	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rehmannia glutinosa	Root				--
Rhododendron ponticum	Plant				--
Ricinus communis	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Ricinus communis	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Robinia pseudoacacia	Flower				--
Rosa gallica	Flower				--
Rosa damascena	Plant				--
Rosa multiflora	Plant				--
Rosmarinus officinalis	Plant	520.0	550.0	0.01771498305724803	--
Rubia cordifolia	Plant				--
Rubus idaeus	Seed Oil				--
Ruellia tuberosa	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Rumex crispus	Root				--
Ruscus aculeatus	Root				--
Salvia officinalis	Fruit Essent. Oil				--
Salvia sclarea	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Salvia officinalis	Sprout Seedling				--
Salvia officinalis	Stem		1214.0	1.0861956164972184	--
Salvia officinalis	Root				--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Salvia triloba	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Salvia officinalis	Leaf	5.0	2449.0	0.24430946587626218	--
Sambucus nigra	Flower				--
Sambucus nigra	Bark				--
Sambucus canadensis	Leaf				--
Sambucus canadensis	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Sambucus nigra	Leaf				--
Sanguisorba minor	Plant				--
Sansevieria trifasciata	Leaf				--
Santalum album	Fruit				--
Sarcostemma acidum	Plant				--
Sarracenia flava	Root		50.0	-0.27464976210335507	--
Sarracenia purpurea	Root				--
Sarracenia purpurea	Shoot				--
Sassafras albidum	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Satureja montana	Plant		280.0	-0.5368410083000819	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Satureja hortensis	Plant		280.0	-0.5368410083000819	--
Saussurea lappa	Root				--
Schinus terebinthifolius	Leaf				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Schinus molle	Leaf				--
Schisandra chinensis	Fruit				--
Scutellaria baicalensis	Root				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Senna obtusifolia</i>	Seed	1000.0	2000.0	0.13648619196503226	--
<i>Senna alata</i>	Root				--
<i>Serenoa repens</i>	Fruit	33.0	281.0	-0.42504048544050566	--
<i>Sesamum indicum</i>	Seed	4000.0	4430.0	1.0689489063880537	--
<i>Sesamum indicum</i>	Seed Oil				--
<i>Siegesbeckia orientalis</i>	Plant				--
<i>Silybum marianum</i>	Seed		100.0	-0.5925998810406223	--
<i>Sinapis alba</i>	Seed				--
<i>Sinomenium acutum</i>	Rhizome				--
<i>Skimmia arborescens</i>	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Smilax</i> spp	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Smilax regelii</i>	Root				Simpson, J. C. E., Williams, N. E. 1937. The Ether-Soluble Constituents of Sarsaparilla Root. Part I. J. Chem. Soc., 1937: 733-738.
<i>Solanum tuberosum</i>	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Solanum nigrum</i>	Plant				--
<i>Solanum tuberosum</i>	Tuber	30.0	140.0		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
<i>Solanum dulcamara</i>	Leaf				--
<i>Sophora pachycarpa</i>	Plant				--
<i>Sophora japonica</i>	Plant				--
<i>Sorbus aucubaria</i>	Flower				--
<i>Stellaria media</i>	Shoot				--
<i>Stevia rebaudiana</i>	Leaf				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Syzygium aromaticum	Fruit		2420.0	2.385350854149113	--
Syzygium aromaticum	Plant				--
Syzygium aromaticum	Essential Oil		1000.0	-1.0	--
Tabebuia heptaphylla	Bark				--
Tagetes erecta	Flower				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
Tamarindus indica	Fruit		3350.0	3.607260132231555	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Tanacetum parthenium	Leaf Essent. Oil		16000.0		--
Tanacetum parthenium	Fruit Essent. Oil				--
Taraxacum officinale	Root		214.0	-0.27068071366460006	--
Taraxacum officinale	Plant				--
Taraxacum officinale	Flower				--
Taxus baccata	Leaf				--
Tecoma stans	Fruit				--
Tephrosia purpurea	Plant				--
Terminalia chebula	Bark				Beri, R. M. 1970. Phytosterol in Some Plant Materials. Indian Oil Soap J. 35: 274-275.
Terminalia arjuna	Root		20.0	-0.2753758075494688	Anjaneyulu, A. S. R., Prasad, A. V. R. 1983. Chemical Examination of the Roots of Terminalia arjuna. Part 3. Structure of Terminic Acid, a Dihydroxytriterpene Carboxylic Acid from Terminalia arjuna. Phytochemistry 22 4: 993-998.
Terminalia arjuna	Fruit				Singh, B., Pandey, V. B. 1995. Constituents of Terminalia arjuna Fruits. Orient. J. Chem. 11 2: 185-186.
Terminalia pallida	Fruit				--
Terminalia chebula	Fruit				Lu, P. P., Liu, X. J., Li, X. G., Wen, J. Q. 1991. Chemical Constituents of Fruits of Terminalia chebula Retz. Shanghai Yike Daxue Xuebao 18 (3): 233-235.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Terminalia arjuna	Leaf				Chauhan, S. M. S., Parkash, S., Kaushik, R. 1997. Isolation of 3-beta-hydroxyolean-12-ene and Related Triterpenoids from the Leaves of Terminalia arjuna. Indian J. Chem. 36B 3: 297-298.
Terminalia bellirica	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Terminalia arjuna	Bark		300.0	1.2553991013519303	--
Terminalia pallida	Seed Oil				Gunasekar, D., Sreeramulu, K., Rao, K. V. 1992. Fatty Acid Composition of the Seed Oil of Terminalia pallida. Asian J. Chem. 4 2: 400-401.
Terminalia arjuna	Root Bark		50.0		Anjaneyulu, A. S. R., Rama Prasad, A. V. 1982. Chemical Examination of Roots of Terminalia arjuna (Roxb.) Wight & Arnot: Part I-Characterization of Two New Triterpenoid Glycosides. Indian J. Chem. 21B 6: 530-533.
Terminalia arjuna	Heart Wood		1000.0		Row, L. R., Subba, Rao, G. S. R. 1962. Chemistry of Terminalia Species. Part IV. Chemical Examination of T. arjuna: Isolation of Arjunolic Acid Saponin and (+) Leucodelphinidin. J. Indian Chem. Soc. 39: 89.
Terminalia catappa	Bark				Diyabalanaga, T. K. K., Jayasinghe, U. L. B., Simmonds, P. M., Wannigama, G. P., Wickramasinghe, A. 1997. Chemical Investigation of Terminalia catappa. Acgc. Chem. Res. Commun. 6: 26-28.
Teucrium polium	Plant				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
Teucrium chamaedrys	Plant				Abstract (See species file)
Teucrium scordium	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Theobroma cacao	Sprout Seedling				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Thespesia populnea	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Thevetia peruviana	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Thuja occidentalis	Branches				--
Thymus vulgaris	Leaf	1520.0	1600.0	-0.21356853970640116	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Tilia sp.	Wood				--
Tribulus terrestris	Flower				--
Trichosanthes kirilowii	Root				--
Tridax procumbens	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Trifolium pratense	Flower				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Trigonella foenum-graecum	Tissue Culture	8.7	400.0	-0.718471075749604	--
Trigonella foenum-graecum	Leaf				--
Trigonella foenum-graecum	Plant				--
Trigonella foenum-graecum	Seed	800.0	1000.0	-0.24724332014320702	--
Turnera diffusa	Shoot		33.0	-0.948667716238135	--
Turnera diffusa	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Ulex europaeus	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ulmus rubra	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Uncaria tomentosa	Bark				--
Urginea maritima	Bulb				--
Urtica dioica	Flower		1000.0	-0.8260909440879352	Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.
Urtica dioica	Shoot				--
Urtica dioica	Root	290.0	640.0	-0.26037086832978534	--
Vaccinium myrtillus	Tissue Culture				--
Vaccinium myrtillus	Fruit				--
Vaccinium corymbosum	Plant				--
Valeriana officinalis	Rhizome				--
Valeriana jatamansi	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Valeriana officinalis	Root				--
Valeriana officinalis	Plant				Lokar, L. C., Martini, F. 1997. Chemotaxonomic Investigations on the Genus Valeriana L. in the Northeastern Italy and in Tuscany. I. Phytosterols. Dept. of Biology, University of Trieste. Allionia 35: 103-115.
Veratrum album	Rhizome				--
Verbascum thapsus	Leaf				--
Verbascum thapsus	Root				--
Verbascum thapsus	Seed Oil				--
Verbascum thapsus	Seed				--
Verbascum thapsus	Stem				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Verbascum thapsus	Flower				--
Vernonia cinerea	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Viburnum opulus	Root Bark				--
Viburnum opulus	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Viburnum prunifolium	Root Bark				--
Vicia faba	Seed	950.0	4500.0	1.0958099722356305	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Vigna radiata	Sprout Seedling	50.0	500.0	-0.22568905807670636	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Vigna radiata	Seed	130.0	150.0	-0.5734134054352104	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Vinca minor	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Viola odorata	Plant		330.0	-0.4341454543450208	--
Vitis vinifera	Seed				--
Vitis vinifera	Fruit	30.0	150.0	-0.5971588891273873	--
Withania somnifera	Leaf				--
Withania somnifera	Tissue Culture				--
Withania somnifera	Root	4.0	200.0	-0.27101953487278646	--
Zanthoxylum americanum	Root Bark				--
Zea mays	Shoot				--
Zea mays	Seed Oil				--
Zea mays	Seed		1200.0	-0.17049741772155916	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zea mays	Silk Stigma Style		1300.0		--
Zingiber officinale	Plant				--
Zingiber officinale	Root	100.0	500.0	-0.26375908041164936	--
Zizyphus spina-christi	Plant				--