

List of Plants



Chemid
SUCROSE

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	*Reference
Acacia nilotica	Seed	--	--		*
Acacia senegal	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Achillea millefolium	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.
Aesculus hippocastanum	Branches	--	--		Jim Duke's personal files.
Alisma plantago-aquatica	Rhizome	--	--		*
Allium ampeloprasum	Plant	--	--		*
Allium sativum var. sativum	Bulb	--	70000.0	-1.0	*
Allium sativum var. sativum	Leaf	--	--		Osman, S. A. 1980. Chemical and Biological Studies of Onion and Garlic in an Attempt to Isolate a Hypoclycaemic Extract. Abstr. 4th Asian Symp. Med. Plants Spices Bangkok, Thailand, September 15-19: 117.
Allium cepa	Leaf	--	--		Osman, S. A. 1980. Chemical and Biological Studies of Onion and Garlic in an Attempt to Isolate a Hypoclycaemic Extract. Abstr. 4th Asian Symp. Med. Plants Spices Bangkok, Thailand, September 15-19: 117.
Allium cepa	Bulb	--	--		Osman, S. A. 1980. Chemical and Biological Studies of Onion and Garlic in an Attempt to Isolate a Hypoclycaemic Extract. Abstr. 4th Asian Symp. Med. Plants Spices Bangkok, Thailand, September 15-19: 117.
Alnus glutinosa	Leaf	--	--		*
Alocasia macrorrhiza	Plant	--	--		*
Althaea officinalis	Plant	--	--		Wealth of India.
Anamirta cocculus	Fruit	--	--		*
Ananas comosus	Fruit	59000.0	150000.0	0.32	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Anastatica hierochuntica	Fruit	--	--		*
Angelica sinensis	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Angelica archangelica	Root	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Annona squamosa	Fruit	72900.0	272500.0	1.19	*
Annona muricata	Plant	--	--		*
Apium graveolens	Plant	--	--		*
Apium graveolens	Shoot	--	--		*
Areca catechu	Seed	--	--		*
Arnica montana	Rhizome	--	10000.0	-0.89	*

<i>Artemisia dracunculus</i>	Leaf	--	--		*
<i>Artemisia dracunculus</i>	Root	--	--		*
<i>Asimina triloba</i>	Fruit	60000.0	545000.0	3.12	*
<i>Asparagus officinalis</i>	Rhizome	--	--		*
<i>Astragalus membranaceus</i>	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Avena sativa</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ballota nigra</i>	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Berberis vulgaris</i>	Fruit	--	--		Jim Duke's personal files.
<i>Beta vulgaris</i>	Root	--	270000.0	1.48	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Carica papaya</i>	Leaf	--	--		Jim Duke's personal files.
<i>Carica papaya</i>	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Carica papaya</i>	Bark	--	--		Jim Duke's personal files.
<i>Castanea sativa</i>	Seed	--	216000.0	2.37	*
<i>Ceratonia siliqua</i>	Fruit	75000.0	175000.0	0.49	*
<i>Cichorium intybus</i>	Root	--	140000.0	0.16	*
<i>Citrus mitis</i>	Jf	--	11000.0		*
<i>Citrus sinensis</i>	Fruit	--	47000.0	-0.41	*
<i>Citrus paradisi</i>	Fruit	--	21400.0	-0.6	*
<i>Citrus mitis</i>	Fruit Juice	--	11000.0		*
<i>Cnidium officinale</i>	Rhizome	--	--		*
<i>Cocos nucifera</i>	Resin, Exudate, Sap	--	134000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cocos nucifera</i>	Juice	--	4300.0		Jim Duke's personal files.
<i>Coriandrum sativum</i>	Fruit	--	--		*
<i>Coriaria myrtifolia</i>	Leaf	--	--		*
<i>Corylus avellana</i>	Plant	--	--		*
<i>Corylus avellana</i>	Seed	20000.0	50000.0	0.01	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Crataegus laevigata</i>	Bark	--	--		*
<i>Crataegus rhipidophylla</i>	Bark	--	--		*
<i>Cucurbita pepo</i>	Seed	--	14000.0	-0.5	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cucurbita foetidissima</i>	Seed	--	23000.0	-0.37	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
<i>Cyphomandra betacea</i>	Fruit	--	--		*
<i>Daphne mezereum</i>	Plant	--	--		*
<i>Daucus carota</i>	Root	60000.0	339000.0	2.18	*
<i>Dianthus caryophyllus</i>	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Echinacea angustifolia</i>	Root	--	69200.0	-0.56	Jim Duke's personal files.

<i>Echinacea purpurea</i>	Root	--	34000.0	-0.92	Jim Duke's personal files.
<i>Eleocharis dulcis</i>	Tuber	63500.0	317500.0		*
<i>Eleutherococcus senticosus</i>	Root	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . <i>Nippon Gogeikagaku Kaishi</i> 61(9): 1119-1122.
<i>Eriobotrya japonica</i>	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Ficus carica</i>	Fruit	2250.0	460000.0	2.51	*
<i>Gentiana lutea</i>	Root	--	--		*
<i>Ginkgo biloba</i>	Wood	10000.0	20000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ginkgo biloba</i>	Seed	--	3600.0	-0.65	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Glycine max</i>	Stem	--	--		*
<i>Glycine max</i>	Seed	27950.0	71700.0	0.32	*
<i>Glycyrrhiza uralensis</i>	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Glycyrrhiza glabra</i>	Root	24000.0	91700.0	-0.33	*
<i>Harpagophytum procumbens</i>	Tuber	--	--		*
<i>Harpagophytum procumbens</i>	Root	--	27300.0	-0.98	*
<i>Helianthus annuus</i>	Flower	--	--		*
<i>Hibiscus sabdariffa</i>	Calyx	--	2400.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Hippophae rhamnoides</i>	Fruit	1000.0	5000.0	-0.71	Abstract (See species file)
<i>Humulus lupulus</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Hydrastis canadensis</i>	Plant	--	--		*
<i>Jatropha curcas</i>	Seed	--	--		*
<i>Kalmia latifolia</i>	Leaf	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Lawsonia inermis</i>	Leaf	--	--		*
<i>Linum usitatissimum</i>	Seed	--	388.0	-0.69	*
<i>Lycopersicon esculentum</i>	Fruit	--	--		*
<i>Lycopodium clavatum</i>	Plant	--	--		*
<i>Lycoris radiata</i>	Bulb	--	73200.0	1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Maclura pomifera</i>	Shoot	--	--		*
<i>Mahonia repens</i>	Stem	--	--		Suess, T. R. and Stermitz, F. R. 1981. The Constituents of <i>Castilleja rhexifolia</i> , <i>Mahonia repens</i> and <i>Oncidium cebolleta</i> . Dissertation Abstract Int B, 42: 1025-1026.
<i>Mahonia repens</i>	Root	--	--		Suess, T. R. and Stermitz, F. R. 1981. The Constituents of <i>Castilleja rhexifolia</i> , <i>Mahonia repens</i> and <i>Oncidium cebolleta</i> . Dissertation Abstract Int B, 42: 1025-1026.
<i>Malus domestica</i>	Fruit	24000.0	36200.0	-0.49	*
<i>Mammea americana</i>	Fruit	--	55000.0	-0.36	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Mangifera indica</i>	Fruit	66700.0	125800.0	0.15	*

Manilkara zapota	Fruit	14800.0	87500.0	-0.13	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Medicago sativa	Plant	--	--		*
Musa x paradisiaca	Fruit	500.0	18400.0	-0.62	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Nelumbo nucifera	Fruit	41000.0	45556.0	-0.42	*
Nelumbo nucifera	Rhizome	4100.0	25309.0	-0.62	*
Nicotiana tabacum	Leaf	--	70000.0	1.93	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ophiopogon japonicus	Tuber	--	--		*
Opuntia ficus-indica	Fruit	--	--		*
Oryza sativa	Seed	3000.0	4800.0	-0.63	*
Paeonia officinalis	Root	80000.0	140000.0	0.16	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Paeonia lactiflora	Bud	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Panax ginseng	Root	1300.0	226000.0	1.04	*
Panax ginseng	Stem	--	3500.0		*
Panax quinquefolius	Root	39000.0	158600.0	0.35	*
Panax ginseng	Leaf	--	6400.0	-0.92	*
Panax quinquefolius	Plant	--	420.0		*
Panax ginseng	Rhizome	--	--		*
Passiflora incarnata	Shoot	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Passiflora incarnata	Plant	--	--		*
Phaseolus acutifolius	Seed	18000.0	79200.0	0.43	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Phoenix dactylifera	Fruit	--	400000.0	2.09	*
Phoenix dactylifera	Seed	--	38200.0	-0.15	Abstract (See species file)
Phragmites australis	Rhizome	--	51000.0	-0.16	*
Phyllanthus emblica	Fruit	2600.0	12970.0	-0.65	*
Physalis ixocarpa	Fruit	3140.0	25060.0	-0.57	*
Phytelephas aequatorialis	Seed	5600.0	45565.0	-0.05	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(AREACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
Phytelephas aequatorialis	Mesocarp	--	1.0		KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(AREACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
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	Leaf	--	17000.0	-0.44	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Piper methysticum	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Piper betel	Leaf	6000.0	25000.0	-0.08	*
Pistacia vera	Seed	--	32600.0	-0.23	*
Pisum sativum	Seed	22500.0	280000.0	3.29	*
Plantago ovata	Plant	--	--		*

<i>Plantago ovata</i>	Seed	--	--		*
<i>Polypodium vulgare</i>	Rhizome	--	155000.0	1.67	*
<i>Portulaca oleracea</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Prunella vulgaris</i>	Na	--	301200.0		*
<i>Prunus dulcis</i>	Seed	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Prunus armeniaca</i>	Fruit	14000.0	54000.0	-0.36	*
<i>Prunus persica</i>	Fruit	20000.0	100000.0	-0.04	*
<i>Prunus domestica</i>	Fruit	7000.0	48000.0	-0.41	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Psidium guajava</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Psidium guajava</i>	Leaf Essent. Oil	--	--		*
<i>Punica granatum</i>	Fruit	--	--		*
<i>Rehmannia glutinosa</i>	Root	28000.0	81000.0	-0.44	*
<i>Ribes rubrum</i>	Fruit	--	1500.0	-0.74	*
<i>Ribes nigrum</i>	Fruit	--	6200.0	-0.7	*
<i>Ribes uva-crispa</i>	Fruit	--	7100.0	-0.7	*
<i>Rosa spp</i>	Fruit	--	--		*
<i>Rosa canina</i>	Fruit	6000.0	32100.0	-0.52	*
<i>Rubus idaeus</i>	Fruit	--	--		*
<i>Ruscus aculeatus</i>	Root	--	36000.0	-0.9	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Saccharum officinarum</i>	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<i>Sambucus nigra</i>	Fruit	700.0	9530.0	-0.68	*
<i>Santalum album</i>	Fruit	--	--		*
<i>Sarcostemma acidum</i>	Plant	--	--		*
<i>Scutellaria baicalensis</i>	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Senna obtusifolia</i>	Seed	--	--		*
<i>Sesamum indicum</i>	Seed	--	--		*
<i>Sinapis alba</i>	Seed	--	--		*
<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>Solanum melongena</i>	Fruit	--	--		*
<i>Spondias dulcis</i>	Fruit	80500.0	200000.0	0.67	*
<i>Spondias pinnata</i>	Fruit	--	29000.0	-0.54	*
<i>Stevia rebaudiana</i>	Leaf	--	--		Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
<i>Stevia rebaudiana</i>	Plant	--	--		Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
<i>Symphytum officinale</i>	Root	--	--		*
<i>Taraxacum officinale</i>	Plant	--	--		*

Taraxacum officinale	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Terminalia bellirica	Seed	--	--		Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of Diospyros melanoxylon, Tecomella undulata and Terminalia bellirica. J. Indian Chem. Soc. 74 6: 504-505.
Terminalia chebula	Fruit	--	10000.0	-0.68	*
Teucrium montanum	Leaf	--	16000.0	-0.49	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
Theobroma cacao	Plant	--	--		*
Theobroma cacao	Seed	18000.0	37000.0	-0.17	*
Tilia sp.	Wood	--	--		*
Trigonella foenum-graecum	Seed	1200.0	12700.0	-0.52	*
Trigonella foenum-graecum	Fruit	400.0	2500.0	-0.73	Singh, J., Gupta, K., and Arora, S.K. 1993. Changes in the anti-nutritional factors of developing seeds and pod walls of fenugreek (Trigonella foenum graecum L.). Plant Foods for Human Nutrition. 46: 77-84, 1994.
Triticum aestivum	Seed	--	8400.0	-0.58	*
Tulipa gesneriana	Bulb	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Urtica dioica	Root	--	--		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.
Vaccinium myrtillus	Fruit	--	--		*
Vaccinium vitis-idaea	Fruit	--	5300.0	-0.71	*
Vanilla planifolia	Fruit	--	350000.0	1.73	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Veratrum album	Rhizome	--	--		*
Verbascum thapsus	Seed Oil	--	--		*
Vetiveria zizanioides	Root	--	--		*
Viburnum opulus	Root Bark	--	--		*
Viburnum opulus	Fruit	--	16600.0	-0.63	*
Viburnum prunifolium	Bark	--	--		*
Vigna unguiculata	Seed	--	15000.0	-0.48	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vigna mungo	Seed	--	16000.0	-0.47	*
Vigna unguiculata	Seed	--	15000.0	-0.48	*
Vigna radiata	Seed	--	18000.0	-0.44	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Withania somnifera	Root	--	1000.0	-1.25	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Zea mays	Fruit	9000.0	19000.0	-0.61	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Zea mays	Leaf	--	--		*
Zingiber officinale	Root	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Zingiber officinale	Rhizome	--	--		*
Zizyphus jujuba	Fruit	122000.0	208000.0	0.73	*