

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for BETAINE

Plant	Part	Low PPM	High PPM	StdDev	Reference
Achillea millefolium	Plant				Wealth of India.
Achyranthes bidentata	Root				--
Achyranthes aspera	Root				--
Althaea officinalis	Root		40000.0	2.8276326231219104	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Arnica montana	Flower				--
Artemisia cina	Flower				--
Astragalus membranaceus	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
Avena sativa	Shoot		2.0	-0.576538228658353	--
Avena sativa	Root		0.1	-0.36834838536964337	--
Beta vulgaris	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Capsicum frutescens	Fruit				--
Capsicum annuum	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
Chenopodium album	Leaf		12200.0	-1.0	--
Cichorium intybus	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Citrus sinensis	Fruit	390.0	630.0	-1.0398613033298902	--
Cola acuminata	Seed		2500.0	1.0	--
Croton lechleri	Plant				Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.
Croton eluteria	Bark				--
Daucus carota	Root		35.0	-0.3655598849684835	--
Echinacea angustifolia	Root		1000.0	-0.2884566503805383	Jim Duke's personal files.
Echinacea purpurea	Root				Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Echinacea purpurea	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Echinacea spp	Root				Economic & Medicinal Plant Research, 5: 253.
Ferula sumbul	Plant				--
Ganoderma lucidum	Fruit				--
Ganoderma lucidum	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Glycine max	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Glycyrrhiza glabra	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Glycyrrhiza glabra	Plant				--
Gossypium sp	Seed				--
Gymnema sylvestre	Leaf				Willaman, J. J., Li, H. L. 1970. Alkaloid-Bearing Plants and their Contained Alkaloids. 1957-1968. Lloydia 33S: 1-286.
Helianthus tuberosus	Tuber				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Hordeum vulgare	Shoot		1.8	-0.5768792410175753	--
Hordeum vulgare	Root		234.0	-0.34965983970112485	--
Justicia adhatoda	Flower				--
Justicia pectoralis	Plant				Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Lycium chilense	Fruit		10000.0	0.9995945652626937	Foster, S. and Yue, C-G. 1992. Herbal Emissaries-Bringing Chinese Herbs to the West. Healing Arts Press, Rochester VT. 356 pp.
Lycium barbarum	Fruit		10000.0	0.9995945652626937	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lycium chinense	Fruit		1000.0	-0.9593278271954978	--
Lycium chilense	Root				--
Lycium chinense	Leaf		13800.0	1.0	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	Root		23.0	-0.3665186816680227	--
Lycopersicon esculentum	Shoot		69.0	-0.462299088318912	--
Medicago sativa	Plant				--
Mentha x piperita	Leaf				--
Nicotiana tabacum	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pisum sativum	Shoot		94.0	-0.4196725434161355	--
Pisum sativum	Root		59.0	-0.3636422915694051	--
Silybum marianum	Seed		80.0	-1.0	--
Stachys officinalis	Plant	840.0	5000.0		--
Triticum aestivum	Shoot		1640.0	2.2163529933715633	--
Triticum aestivum	Root		82.0	-0.36180459789528824	--
Ulex europaeus	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Urtica dioica	Plant				Jim Duke's personal files.
Urtica dioica	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vitis vinifera	Fruit Juice				--
Zea mays	Root		59.0	-0.3636422915694051	--
Zea mays	Silk Stigma Style				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zea mays	Shoot		234.0	-0.18096389196058713	--