

List of Plants



Chemid

BETAINE

Dosage

LD50=830 (ivn mus)

*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
Achillea millefolium	Plant	--	--		Wealth of India.
Achyranthes aspera	Root	--	--		*
Achyranthes bidentata	Root	--	--		*
Althaea officinalis	Root	--	40000.0	2.83	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	Root	--	0.1	-0.37	*
Avena sativa	Shoot	--	2.0	-0.58	*
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	-1.04	*
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	-0.37	*
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.
Echinacea angustifolia	Root	--	1000.0	-0.29	Jim Duke's personal files.
Echinacea purpurea	Root	--	--		Jim Duke's personal files.
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 sylvestris	Leaf	--	--		Willaman, J. J., Li, H. L. 1970. Alkaloid-Bearing Plants and their Contained Alkaloids. 1957-1968. Lloydia 335: 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	Root	--	234.0	-0.35	*
Hordeum vulgare	Shoot	--	1.8	-0.58	*
Justicia pectoralis	Plant	--	--		Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Justicia adhatoda	Flower	--	--		*
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.
Lycium chilense	Fruit	--	10000.0	1.0	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	1.0	*
Lycium chinense	Fruit	--	1000.0	-0.96	*
Lycopersicon esculentum	Shoot	--	69.0	-0.46	*
Lycopersicon esculentum	Root	--	23.0	-0.37	*
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	-0.42	*
Pisum sativum	Root	--	59.0	-0.36	*
Silybum marianum	Seed	--	80.0	-1.0	*
Stachys officinalis	Plant	840.0	5000.0		*
Triticum aestivum	Shoot	--	1640.0	2.22	*
Triticum aestivum	Root	--	82.0	-0.36	*
Ulex europaeus	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Urtica dioica	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.
Vitis vinifera	Fruit Juice	--	--		*
Zea mays	Shoot	--	234.0	-0.18	*

Zea mays	Root	--	59.0	-0.36	*
Zea mays	Silk Stigma Style	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.