

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**List of Plants for CHOLESTEROL**

Plant	Part	Low PPM	High PPM	StdDev	Reference
Opuntia ficus-indica	Seed Oil		15000.0		--
Theobroma cacao	Oil	0.0	2800.0	1.0	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Helianthus annuus	Seed		1500.0	1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vicia faba	Oil		400.0	-1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Aloe vera	Leaf	40.0	120.0		--
Commiphora wightii	Inflorescence		100.0		Jim Duke's personal files.
Allium sativum var. sativum	Bulb	0.0	80.0		LAWSON in Koch, H. P. and Lawson, L. D., eds. 1996. Garlic-The Science and therapeutic application of Allium sativum L. and related species. Williams & Wilkins, Baltimore. 329 pp.
Ononis spinosa	Root		68.0		--
Trigonella foenum-graecum	Tissue Culture		20.0		--
Juglans regia	Seed	0.0	12.0	-1.0	--
Rosmarinus officinalis	Shoot		6.0		--
Phoenix dactylifera	Fruit		0.0		USDA's Ag Handbook 8 and sequelae)
Annona muricata	Plant				--
Lycium chinense	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.
Lycium chinense	Seed				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.

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Aloe vera	Shoot				Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40.
Moringa oleifera	Seed				--
Abutilon theophrasti	Seed Oil				Sun, Y. Y., Yuan, Y. X. 1996. Study on Lipid Soluble Constituent in Seed of Abutilon theophrasti. Chung Ts'ao Yao, 27(6): 334.
Carica papaya	Seed Oil				Jim Duke's personal files.
Momordica charantia	Fruit				=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
Sambucus nigra	Hh				--
Sambucus nigra	Plant				--
Fucus vesiculosus	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Citrus sinensis	Fruit				--
Anastatica hierochuntica	Plant				--
Coffea arabica	Seed				--
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. Biotechol. Biol. Act. Nat. Prod., (Proc.) 3rd: 166-170.
Sesamum indicum	Seed Oil				--
Hibiscus sabdariffa	Seed				--
Lycopodium clavatum	Plant				--
Hylocereus undatus	Plant				--
Cucurbita pepo	Plant				--
Solanum nigrum	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Euphorbia hirta	Plant				--
Citrus reticulata	Pericarp				--
Citrus reticulata	Root				--
Arachis hypogaea	Plant				--
Curcuma longa	Rhizome				--
Citrus paradisi	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Holarrhena pubescens	Tissue Culture				--
Trigonella foenum-graecum	Seed				--
Acacia farnesiana	Plant				Pakistan Encyclopedia Planta Medica. 1986.
Spinacia oleracea	Leaf				--
Acacia farnesiana	Seed				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Nigella sativa	Seed Oil				--
Rosa multiflora	Fruit				--
Allium cepa	Bulb				--
Digitalis lanata	Plant				--
Elettaria cardamomum	Seed				--
Equisetum arvense	Plant				--
Aloe vera	Plant				Suga, T., Hirata, T. 1983. The Efficacy of the Aloe Plants Chemical Constituents and Biological Activities. Cosmet. Toiletries 98(6): 105-108.
Theobroma cacao	Plant				--
Salvia officinalis	Fruit Essent. Oil				--
Prunus armeniaca	Seed				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Vitis vinifera	Fruit				--

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Juniperus communis	Fruit				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Linum usitatissimum	Seed				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Punica granatum	Seed				--
Solanum dulcamara	Leaf				--
Euphorbia pulcherrima	Plant				--
Annona squamosa	Plant				--
Zea mays	Root				--
Zea mays	Shoot				--
Piper methysticum	Rhizome				--
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.
Avena sativa	Leaf				--
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.
Pisum sativum	Seed				--
Avena sativa	Seed				--
Ulmus rubra	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Nigella sativa	Seed				--
Daucus carota	Leaf				--
Musa x paradisiaca	Fruit				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
<i>Commiphora wightii</i>	Resin, Exudate, Sap				Jim Duke's personal files.
<i>Calendula officinalis</i>	Flower				--
<i>Solanum tuberosum</i>	Plant				--
<i>Amaranthus spinosus</i>	Leaf				Wealth of India.
<i>Aesculus hippocastanum</i>	Bark				Jim Duke's personal files.
<i>Aesculus hippocastanum</i>	Seed				Jim Duke's personal files.
<i>Glycine max</i>	Seed				--
<i>Sambucus nigra</i>	Flower				--
<i>Salvia officinalis</i>	Fruit				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Panax ginseng</i>	Seed Oil				--
<i>Tagetes erecta</i>	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.
<i>Zea mays</i>	Seed				--
<i>Abelmoschus moschatus</i>	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Phoenix dactylifera</i>	Pollen Or Spore				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<i>Sinapis alba</i>	Seed				--
<i>Persea americana</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cymbopogon parkeri</i>	Plant				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Panax quinquefolius</i>	Seed Oil				--