

## Chemid

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\*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
Albizia lebeck	Flower	--	--		Wealth of India.
Alnus glutinosa	Bark	--	--	--	
Aloe vera	Plant	--	--	--	
Aloe vera	Leaf	--	--	--	
Apocynum cannabinum	Root	--	--	--	
Arbutus unedo	Leaf	--	--	--	
Arctium lappa	Plant	--	--		Jim Duke's personal files.
Arctium lappa	Leaf	--	--	--	
Arctostaphylos uva-ursi	Plant	--	--		J.S. Glasby Dict.PIs Containing 2ndary Metabolite. 1991.
Arctostaphylos uva-ursi	Leaf	--	--	--	
Arundo donax	Leaf	--	--	--	
Aspidosperma quebracho-blanco	Bark	--	--	--	

Plant	Part	Low PPM	High PPM	StdDev	Reference
Bidens pilosa	Plant	--	50		Jim Duke's personal files.
Caesalpinia pulcherrima	Flower	--	--		--
Cajanus cajan	Root	--	--		Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Calendula officinalis	Flower	--	--		--
Camellia japonica	Seed	--	--		Wealth of India.
Camellia sinensis	Seed	--	--		--
Camellia sinensis	Seed Oil	--	--		--
Capsicum annum	Seed	--	--		--
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
Coccoloba grandis	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Crataegus laevigata	Bark	--	--		--
Crataegus rhipidophylla	Bark	--	--		--
Cucumis melo	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Cucumis sativus	Seed	--	--		--
Cucurbita pepo	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Daucus carota	Root	--	--		--

<b>Plant</b>	<b>Part</b>	<b>Low PPM</b>	<b>High PPM</b>	<b>StdDev</b>	<b>Reference</b>
Dipteryx odorata	Bark	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Duchesnea indica	Plant	--	--		--
Elaeagnus pungens	Leaf	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Eupatorium odoratum	Leaf	--	--		Tramil
Ficus carica	Leaf	--	--		--
Gaultheria procumbens	Shoot	--	--		--
Gentiana lutea	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Glycine max	Seed	--	--		--
Glycyrrhiza glabra	Tissue Culture	--	--		--
Helianthus annuus	Shoot	--	--		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.
Hemidesmus indicus	Root	--	--		--
Holarrhena pubescens	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Inonotus obliquus	Plant	--	--		--
Juniperus communis	Stem	--	--		--
Lawsonia inermis	Plant	--	--		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.
Lawsonia inermis	Bark	--	--		--
Ligustrum japonicum	Seed	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lupinus albus	Seed	--	--	--	
Lycopersicon esculentum	Plant	--	--	--	
Maclura pomifera	Fruit	137	2300	--	
Maclura pomifera	Root Bark	--	--	--	
Maclura pomifera	Plant	--	--	--	
Menyanthes trifoliata	Root	--	--	--	
Morus alba	Plant	--	--	--	
Myrica cerifera	Stem	--	--	--	
Myrica cerifera	Leaf	--	--	--	
Myrica cerifera	Fruit	--	--	--	
Myrica cerifera	Root	--	--	--	
Oenothera biennis	Fruit	--	--	--	
Oenothera biennis	Inflorescence	--	--	--	
Panax ginseng	Seed Oil	--	--	--	
Panax quinquefolius	Seed Oil	--	--	--	
Phoenix dactylifera	Stem	--	--	--	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.
Phyllanthus emblica	Bark	--	22500	--	
Phyllanthus emblica	Shoot	--	--	--	
Phyllanthus emblica	Root	--	--	--	

Plant	Part	Low PPM	High PPM	StdDev	Reference
Phyllanthus niruri	Root	--	--		Tramil
Pistacia lentiscus	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pisum sativum	Sprout Seedling	--	--		--
Plumeria acutifolia	Latex Exudate	--	--		--
Prunella vulgaris	Leaf	--	--		--
Psidium guajava	Fruit	--	--		--
Pterocarpus marsupium	Plant	--	--		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.
Pterocarpus santalinus	Bark	--	--		--
Ptychopetalum olacoides	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
Rosmarinus officinalis	Shoot	--	2.4		--
Sambucus nigra	Flower	--	--		--
Sarcostemma acidum	Plant	--	--		--
Sarracenia flava	Root	--	--		--
Sarracenia purpurea	Root	--	--		--
Saussurea lappa	Plant	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Serenoa repens</i>	Fruit	--	--	--	
<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>Sophora subprostrata</i>	Root	--	--	--	
<i>Spartium junceum</i>	Flower	--	--	--	
<i>Stevia rebaudiana</i>	Leaf	--	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Sweetia panamensis</i>	Bark	--	--	--	
<i>Swertia chirata</i>	Plant	--	--	--	
<i>Tephrosia purpurea</i>	Plant	--	--	--	
<i>Thevetia peruviana</i>	Plant	--	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Trilisa odoratissima</i>	Leaf	--	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Ulex europaeus</i>	Plant	--	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Verbascum thapsus</i>	Leaf	--	--	--	
<i>Verbascum thapsus</i>	Stem	--	--	--	
<i>Verbascum thapsus</i>	Root	--	--	--	
<i>Verbena officinalis</i>	Plant	--	--	--	
<i>Vernonia cinerea</i>	Seed	--	--	--	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
Viscum album	Resin, Exudate, Sap	--	--	--	
Vitellaria paradoxa	Plant	--	--	--	
Vitellaria paradoxa	Seed Oil	--	--		Itoh, O., Uetsuki, T., Tamura, T., Matsumoto, A. 1980. Characterization of Triterpene Alcohols of Seed Oils From Some Species of Theaceae, Phytolaccaceae and Sapotaceae. Lipids 15 6: 407-411.
Vitis vinifera	Leaf	--	--	--	
Vitis vinifera	Stem	--	--	--	
Vitis vinifera	Root	--	--	--	