

List of Plants

URSOLIC-ACID

Chemid

URSOLICACID

*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
<i>Agrimonia eupatoria</i>	Plant	--	6000.0	-0.51	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Arbutus unedo</i>	Leaf	--	--		*
<i>Arctostaphylos uva-ursi</i>	Plant	--	--		*
<i>Arctostaphylos uva-ursi</i>	Leaf	4000.0	7500.0	-0.25	*
<i>Arctostaphylos uva-ursi</i>	Shoot	--	--		*
<i>Artocarpus heterophyllus</i>	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Berberis vulgaris</i>	Fruit	--	--		Jim Duke's personal files.
<i>Catalpa bignonioides</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Catharanthus roseus</i>	Leaf	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Chimaphila umbellata</i>	Shoot	--	--		*
<i>Chimaphila umbellata</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Chrysanthemum x morifolium</i>	Flower	--	--		Wealth of India.
<i>Cnicus benedictus</i>	Plant	--	--		Jim Duke's personal files.
<i>Cornus officinalis</i>	Seed	--	--		*
<i>Cornus mas</i>	Shoot	--	--		Zorina, A. D., Matyukhina, L. G., Ryabinin, A. A. 1966. Triterpenes in Some Plant Species. Chem Nat Comp, 2(4): 291.
<i>Cornus officinalis</i>	Fruit	--	--		*
<i>Cornus mas</i>	Flower	--	--		Grigorescu, E., Ionescu, A. P. 1976. Isolation of Ursolic Acid from <i>Cornus mas</i> (Cornaceae). Phytochemistry, 15: 1097.
<i>Cornus florida</i>	Plant	--	--		*
<i>Crataegus laevigata</i>	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Crataegus monogyna</i>	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Crataegus rhipidophylla</i>	Shoot	--	--		*
<i>Crataegus laevigata</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Crataegus laevigata</i>	Shoot	--	--		*
<i>Crataegus monogyna</i>	Inflorescence	--	--		*

<i>Crataegus rhipidophylla</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Crataegus cuneata</i>	Fruit	--	--		*
<i>Cryptostegia grandifolia</i>	Leaf	--	--		*
<i>Duboisia myoporoides</i>	Shoot	--	10.0	-0.74	*
<i>Duchesnea indica</i>	Plant	--	1.6	-0.8	*
<i>Elaeagnus pungens</i>	Leaf	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Eriobotrya japonica</i>	Leaf	13.7	955.6	-0.39	*
<i>Eucalyptus citriodora</i>	Root	--	67.0	1.0	*
<i>Eucalyptus globulus</i>	Leaf	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
<i>Eucalyptus globulus</i>	Wood	--	8.0		*
<i>Eucalyptus citriodora</i>	Leaf	--	--		*
<i>Eucalyptus citriodora</i>	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Eucalyptus grandis</i>	Leaf	--	6000.0	-0.28	*
<i>Forsythia suspensa</i>	Fruit	--	--		*
<i>Gaultheria fragrantissima</i>	Leaf	--	--		=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
<i>Gaultheria procumbens</i>	Leaf	--	--		*
<i>Glechoma hederacea</i>	Plant	--	166.0	-0.79	Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Harpagophytum procumbens</i>	Tuber	--	--		*
<i>Harpagophytum procumbens</i>	Root	--	--		*
<i>Helichrysum angustifolium</i>	Stem	--	--		*
<i>Helichrysum angustifolium</i>	Flower	--	--		*
<i>Holarrhena pubescens</i>	Leaf	--	--		*
<i>Humulus lupulus</i>	Stem	--	--		*
<i>Hyptis capitata</i>	Shoot	--	--		Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.
<i>Hyssopus officinalis</i>	Plant	--	4900.0	-0.56	*
<i>Ilex paraguariensis</i>	Leaf	--	--		*
<i>Lavandula angustifolia</i>	Leaf	--	7000.0	-0.26	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Lavandula latifolia</i>	Leaf	10000.0	19000.0	0.01	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Leonurus cardiaca</i>	Plant	--	--		*
<i>Ligustrum lucidum</i>	Plant	--	--		*

Ligustrum lucidum	Fruit	--	0.3	-1.07	*
Ligustrum japonicum	Fruit	--	--		*
Limonia acidissima	Wood	--	--		Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Lycopus europeus	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Malus domestica	Wax	--	--		*
Malus domestica	Fruit Epidermis	--	--		*
Malus domestica	Pericarp	--	--		*
Marrubium vulgare	Leaf	--	1000.0	-0.39	*
Marrubium vulgare	Flower	--	--		*
Marrubium vulgare	Plant	--	1200.0	-0.74	*
Melaleuca leucadendra	Plant	--	--		*
Melissa officinalis	Plant	--	--		*
Mentha spicata	Shoot	--	--		*
Mentha x rotundifolia	Tissue Culture	--	--		Jim Duke's personal files.
Mentha spicata	Plant	--	--		*
Mentha spicata	Leaf	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Monarda didyma	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Morinda citrifolia	Leaf	--	--		*
Nepeta cataria	Plant	--	--		*
Nepeta cataria	Shoot	--	10300.0	1.82	*
Nerium oleander	Plant	--	43000.0	1.26	*
Ocimum basilicum	Sprout Seedling	--	63.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Ocimum canum	Shoot	--	--		=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
Ocimum tenuiflorum	Leaf	2520.0	4780.0	-0.31	*
Ocimum tenuiflorum	Inflorescence	10.0	30.0		*
Ocimum basilicum	Leaf	--	--		*
Ocimum tenuiflorum	Plant	--	--		*
Ocimum basilicum	Flower	--	1740.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Ocimum basilicum	Stem	--	845.0	0.79	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Ocimum tenuiflorum	Stem	20.0	100.0	-1.11	*
Origanum majorana	Plant	500.0	2100.0	-0.7	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Origanum vulgare	Plant	--	3100.0	-0.65	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plantago asiatica	Plant	--	--		*
Plantago major	Plant	--	--		*
Plectranthus amboinicus	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Prosopis glandulosa	Shoot	--	145.0	-0.7	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.
Prunella vulgaris	Plant	--	--		*
Prunella vulgaris	Shoot	211.0	4400.0	0.35	*
Prunus africana	Bark	--	28900.0		*
Prunus persica	Leaf	--	--		*
Prunus laurocerasus	Leaf	--	10000.0	-0.19	*
Prunus serotina	Leaf	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Prunus cerasus	Fruit	--	--		*
Psidium guajava	Leaf	--	--		*
Psidium guajava	Fruit	--	--		*
Punica granatum	Flower	--	--		*
Punica granatum	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Punica granatum	Seed	--	--		*
Punica granatum	Pericarp	--	6000.0		Hegnauer, R. 1962-1997. Chemotaxonomie der Pflanzen, Bde 1-11. Birkhauser Verlag Basel, Boston, Berlin.
Punica granatum	Leaf	--	4500.0	-0.31	*
Pyrus communis	Fruit	--	--		*
Rhododendron dauricum	Plant	--	--		*
Rhododendron ponticum	Leaf	--	--		*
Rhododendron ferrugineum	Leaf	--	--		*
Rosmarinus officinalis	Shoot	--	20.0	-0.73	*
Rosmarinus officinalis	Plant	28000.0	41000.0	1.16	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosmarinus officinalis	Leaf	28000.0	192000.0	3.92	*
Rubus fruticosus	Plant	--	--		*
Salvia officinalis	Stem	--	200.0	-0.86	*
Salvia triloba	Plant	--	74500.0	2.76	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Salvia officinalis	Leaf	1255.0	1300.0	-0.39	*
Salvia sclarea	Plant	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Salvia officinalis	Root	--	--		*
Sambucus nigra	Leaf	--	--		*
Sambucus nigra	Flower	--	--		*
Sambucus nigra	Bark	--	--		*
Sanguisorba officinalis	Plant	--	--		*
Satureja hortensis	Stem	--	1000.0	1.18	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

<i>Satureja hortensis</i>	Leaf	--	1700.0	-0.38	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Satureja montana</i>	Leaf	--	16000.0	-0.05	*
<i>Satureja montana</i>	Plant	--	16000.0	-0.03	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Sorbus aucubaria</i>	Fruit	--	--		*
<i>Syringa vulgaris</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Syzygium claviflorum</i>	Leaf	--	20.0	-0.42	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.
<i>Teucrium scorodonia</i>	Leaf	--	3000.0	-0.35	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Teucrium chamaedrys</i>	Plant	--	--		Abstract (See species file)
<i>Teucrium scordium</i>	Plant	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Teucrium polium</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>Thevetia peruviana</i>	Leaf	--	1500.0	-0.38	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Thymus vulgaris</i>	Plant	15000.0	18800.0	0.1	*
<i>Thymus serpyllum</i>	Plant	7500.0	9100.0	-0.36	*
<i>Uncaria tomentosa</i>	Plant	--	--		*
<i>Urtica dioica</i>	Root	--	15.0	-1.0	Jim Duke's personal files.
<i>Vaccinium vitis-idaea</i>	Fruit	--	7500.0	1.34	*
<i>Vaccinium corymbosum</i>	Plant	--	--		*
<i>Vaccinium macrocarpon</i>	Fruit	--	--		*
<i>Vaccinium myrtillus</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Vaccinium myrtillus</i>	Fruit	--	2500.0	-0.27	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Verbena officinalis</i>	Plant	--	--		*
<i>Viburnum opulus</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Viburnum prunifolium</i>	Root Bark	--	--		*
<i>Viburnum prunifolium</i>	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Vinca minor</i>	Plant	2400.0	13400.0	-0.16	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Vinca minor</i>	Leaf	1400.0	37000.0	0.42	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Vitis vinifera</i>	Fruit	--	--		*
<i>Zizyphus jujuba</i>	Plant	--	--		*