

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for SUCCINIC-ACID

Plant	Part	Low PPM	High PPM	StdDev	Reference
Panax quinquefolius	Plant		40000.0	1.0	--
Averrhoa carambola	Fruit		2200.0	1.0	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Physalis ixocarpa	Fruit	10.0	20.0	-1.0	--
Stevia rebaudiana	Plant		4000.0	-1.0	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Urtica dioica	Plant				--
Vaccinium myrtillus	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Piscidia piscipula	Plant				--
Eriobotrya japonica	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Prunus armeniaca	Fruit				--
Ricinus communis	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ocimum basilicum	Plant				Stitt, Paul. Why George should eat broccoli.
Ginkgo biloba	Pollen Or Spore				Jim Duke's personal files.
Quisqualis indica	Fruit				--
Rubus idaeus	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rubus idaeus	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Brassica oleracea var. italica	Plant				Stitt, Paul. Why George should eat broccoli.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Plantago major	Plant				--
Aconitum napellus	Root				--
Fritillaria thunbergii	Bulb				Chemical Constituents of Oriental Herbs (3 diff. books)
Mangifera indica	Fruit				--
Arnica montana	Rhizome				--
Opuntia ficus-indica	Fruit				--
Prunus domestica	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Apium graveolens	Root				--
Allium cepa	Bulb				Soldatenkov, S. V., Mazurova, T. A., Ranteleev, A. N. 1960. Organic Acids of Onion and Spinach. Trudy Petergof Biol. Inst., Leningrad Gosudarst Univ Im AA Zhdanova, 18: 55-61.
Ficus carica	Fruit				--
Allium sativum var. sativum	Plant				Stitt, Paul. Why George should eat broccoli.
Glycine max	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Glycine max	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Glycine max	Sprout Seedling				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Musa x paradisiaca	Leaf				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.
Zea mays	Plant				--
Sarcostemma acidum	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Achillea millefolium	Plant				--
Cocos nucifera	Root				Jim Duke's personal files.
Chelidonium majus	Plant				--
Angelica sinensis	Root				Jim Duke's personal files.
Petroselinum crispum	Root				--
Conyza canadensis	Plant				--
Ginkgo biloba	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
Digitalis purpurea	Leaf				--
Malus domestica	Plant				--
Pueraria pseudohirsuta	Root				--
Datura stramonium	Plant				--
Morus alba	Leaf				--
Lycopersicon esculentum	Fruit				--
Brassica oleracea var. sabellica l.	Leaf				--
Actinidia chinensis	Plant				--
Helianthus annuus	Leaf				--
Ribes rubrum	Fruit				--
Rheum rhabarbarum	Pt				--
Pistacia vera	Seed				--
Eschscholzia californica	Root				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Kalanchoe daegrिमontiana	Plant				--
Vitis vinifera	Fruit				--
Pisum sativum	Seed				--
Atropa bella-donna	Leaf				--

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Hippophae rhamnoides	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Allium cepa	Leaf				Soldatenkov, S. V., Mazurova, T. A., Ranteleev, A. N. 1960. Organic Acids of Onion and Spinach. Trudy Petergof Biol. Inst., Leningrad Gosudarst Univ Im AA Zhdanova, 18: 55-61.
Petroselinum crispum	Plant				Stitt, Paul. Why George should eat broccoli.
Phaseolus vulgaris	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Achillea millefolium	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Kalanchoe pinnata	Plant				--
Sophora pachycarpa	Leaf				--
Allium schoenoprasum	Leaf				--
Terminalia chebula	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Brassica oleracea var. botrytis l.	Plant				--
Pueraria montana	Root				--
Abies alba	Resin, Exudate, Sap				--
Medicago sativa	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Prunus cerasus	Fruit				--
Apium graveolens	Pt				--
Calea zacatechichi	Plant				--
Nicotiana tabacum	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Geranium thunbergii	Plant				--
Rubus fruticosus	Leaf				--
Tamarindus indica	Fruit				--
Daucus carota	Root				--
Juniperus communis	Leaf				--
Coriaria thymifolia	Plant				--
Pteridium aquilinum	Plant				--
Rosa canina	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Aconitum napellus	Plant				--
Brassica oleracea var. capitata l.	Leaf				Jim Duke's personal files.
Glechoma hederacea	Plant				Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
Euphorbia tirucalli	Plant				--
Solanum tuberosum	Plant				--
Garcinia cambogia	Fruit				Lewis, Y. S., Neelakantan, S. 1965. (-)-hydroxycitric acid, the principle acid in the fruits of Garcinia cambogia Desr. Phytochemistry 4: 619-625.
Plantago asiatica	Plant				--
Brassica oleracea var. botrytis l.	Flower				--
Ficus carica	Fruit Juice				Shiraishi, S. C., Kawakami, K., Widodo, S. E., Shiraishi, M., Kitazaki, M. 1996. Organic acid profiles in the juice of fig fruits. Journal of the Faculty of Agriculture Kyushu University, 41(1-2): 29-33.
Asparagus officinalis	Shoot				--
Lupinus albus	Seed				--

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Musa x paradisiaca	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Papaver somniferum	Latex Exudate				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Punica granatum	Fruit				--
Citrus aurantiifolia	Fruit				--
Alocasia macrorrhiza	Plant				--
Panax ginseng	Root				--
Melissa officinalis	Plant				--
Brassica oleracea var. gemmifera	Leaf				--
Cocos nucifera	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Citrus sinensis	Fruit				--
Angelica archangelica	Plant				Pakistan Encyclopedia Planta Medica. 1986.
Sorbus aucubaria	Fruit				--