

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for SUCCINIC-ACID

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Abies alba</i>	Resin, Exudate, Sap				--
<i>Achillea millefolium</i>	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Achillea millefolium</i>	Plant				--
<i>Aconitum napellus</i>	Plant				--
<i>Aconitum napellus</i>	Root				--
<i>Actinidia chinensis</i>	Plant				--
<i>Allium sativum</i> var. <i>sativum</i>	Plant				Stitt, Paul. Why George should eat broccoli.
<i>Allium cepa</i>	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.
<i>Allium cepa</i>	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.
<i>Allium schoenoprasum</i>	Leaf				--
<i>Alocasia macrorrhiza</i>	Plant				--
<i>Angelica archangelica</i>	Plant				Pakistan Encyclopedia Planta Medica. 1986.
<i>Angelica sinensis</i>	Root				Jim Duke's personal files.
<i>Apium graveolens</i>	Root				--
<i>Apium graveolens</i>	Pt				--
<i>Arnica montana</i>	Rhizome				--
<i>Asparagus officinalis</i>	Shoot				--
<i>Atropa bella-donna</i>	Leaf				--
<i>Averrhoa carambola</i>	Fruit		2200.0	1.0	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Brassica oleracea</i> var. <i>gemmifera</i>	Leaf				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Brassica oleracea var. sabellica l.	Leaf				--
Brassica oleracea var. botrytis l.	Flower				--
Brassica oleracea var. botrytis l.	Plant				--
Brassica oleracea var. capitata l.	Leaf				Jim Duke's personal files.
Brassica oleracea var. italica	Plant				Stitt, Paul. Why George should eat broccoli.
Calea zacatechichi	Plant				--
Chelidonium majus	Plant				--
Citrus sinensis	Fruit				--
Citrus aurantiifolia	Fruit				--
Cocos nucifera	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cocos nucifera	Root				Jim Duke's personal files.
Conyza canadensis	Plant				--
Coriaria thymifolia	Plant				--
Datura stramonium	Plant				--
Daucus carota	Root				--
Digitalis purpurea	Leaf				--
Eriobotrya japonica	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Eschscholzia californica	Root				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Euphorbia tirucalli	Plant				--
Ficus carica	Fruit				--
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Fritillaria thunbergii</i>	Bulb				Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Garcinia cambogia</i>	Fruit				Lewis, Y. S., Neelakantan, S. 1965. (-)-hydroxycitric acid, the principle acid in the fruits of <i>Garcinia cambogia</i> Desr. <i>Phytochemistry</i> 4: 619-625.
<i>Geranium thunbergii</i>	Plant				--
<i>Ginkgo biloba</i>	Pollen Or Spore				Jim Duke's personal files.
<i>Ginkgo biloba</i>	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . <i>Nippon Gogeikagaku Kaishi</i> 61(9): 1119-1122.
<i>Glechoma hederacea</i>	Plant				Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
<i>Glycine max</i>	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Glycine max</i>	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Glycine max</i>	Sprout Seedling				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Helianthus annuus</i>	Leaf				--
<i>Hippophae rhamnoides</i>	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Juniperus communis</i>	Leaf				--
<i>Kalanchoe daegrinontiana</i>	Plant				--
<i>Kalanchoe pinnata</i>	Plant				--
<i>Lupinus albus</i>	Seed				--
<i>Lycopersicon esculentum</i>	Fruit				--
<i>Malus domestica</i>	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mangifera indica	Fruit				--
Medicago sativa	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Melissa officinalis	Plant				--
Morus alba	Leaf				--
Musa x paradisiaca	Fruit				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.
Nicotiana tabacum	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum basilicum	Plant				Stitt, Paul. Why George should eat broccoli.
Opuntia ficus-indica	Fruit				--
Panax ginseng	Root				--
Panax quinquefolius	Plant		40000.0	1.0	--
Papaver somniferum	Latex Exudate				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Petroselinum crispum	Plant				Stitt, Paul. Why George should eat broccoli.
Petroselinum crispum	Root				--
Phaseolus vulgaris	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Physalis ixocarpa	Fruit	10.0	20.0	-1.0	--
Piscidia piscipula	Plant				--
Pistacia vera	Seed				--
Pisum sativum	Seed				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Plantago asiatica	Plant				--
Plantago major	Plant				--
Prunus cerasus	Fruit				--
Prunus armeniaca	Fruit				--
Prunus domestica	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pteridium aquilinum	Plant				--
Pueraria pseudohirsuta	Root				--
Pueraria montana	Root				--
Punica granatum	Fruit				--
Quisqualis indica	Fruit				--
Rheum rhabarbarum	Pt				--
Ribes rubrum	Fruit				--
Ricinus communis	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosa canina	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rubus idaeus	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rubus fruticosus	Leaf				--
Rubus idaeus	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Sarcostemma acidum	Plant				--
Solanum tuberosum	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Sophora pachycarpa	Leaf				--
Sorbus aucubaria	Fruit				--
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.
Tamarindus indica	Fruit				--
Terminalia chebula	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
Vitis vinifera	Fruit				--
Zea mays	Plant				--