

# List of Plants

## SUCCINIC-ACID

Chemid  
SUCCINICACID

### Dosage

LD50=8,530 (orl rat) Merck 11th Edition

LDI0=2,000 (scu frg)

\*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
Abies alba	Resin, Exudate, Sap	--	--		*
Achillea millefolium	Leaf	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Achillea millefolium	Plant	--	--		*
Aconitum napellus	Plant	--	--		*
Aconitum napellus	Root	--	--		*
Actinidia chinensis	Plant	--	--		*
Allium sativum var. sativum	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
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.
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.
Allium schoenoprasum	Leaf	--	--		*
Alocasia macrorrhiza	Plant	--	--		*
Angelica archangelica	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Angelica sinensis	Root	--	--		Jim Duke's personal files.
Apium graveolens	Root	--	--		*
Apium graveolens	Pt	--	--		*
Arnica montana	Rhizome	--	--		*
Asparagus officinalis	Shoot	--	--		*
Atropa belladonna	Leaf	--	--		*
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.
Brassica oleracea var. gemmifera	Leaf	--	--		*

Brassica oleracea var. sabellica l.	Leaf	--	--		*
Brassica oleracea var. botrytis l.	Plant	--	--		*
Brassica oleracea var. botrytis l.	Flower	--	--		*
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.
Fritillaria thunbergii	Bulb	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
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.
Geranium thunbergii	Plant	--	--		*
Ginkgo biloba	Pollen Or Spore	--	--		Jim Duke's personal files.
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.
Glechoma hederacea	Plant	--	--		Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
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	Root	--	--		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.
Helianthus annuus	Leaf	--	--		*

Hippophae rhamnoides	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Juniperus communis	Leaf	--	--		*
Kalanchoe daegrifontiana	Plant	--	--		*
Kalanchoe pinnata	Plant	--	--		*
Lupinus albus	Seed	--	--		*
Lycopersicon esculentum	Fruit	--	--		*
Malus domestica	Plant	--	--		*
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	--	--		*
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	--	--		*

<i>Punica granatum</i>	Fruit	--	--		*
<i>Quisqualis indica</i>	Fruit	--	--		*
<i>Rheum rhabarbarum</i>	Pt	--	--		*
<i>Ribes rubrum</i>	Fruit	--	--		*
<i>Ricinus communis</i>	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rosa canina</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rubus idaeus</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rubus fruticosus</i>	Leaf	--	--		*
<i>Rubus idaeus</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Sarcostemma acidum</i>	Plant	--	--		*
<i>Solanum tuberosum</i>	Plant	--	--		*
<i>Sophora pachycarpa</i>	Leaf	--	--		*
<i>Sorbus aucubaria</i>	Fruit	--	--		*
<i>Stevia rebaudiana</i>	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.
<i>Tamarindus indica</i>	Fruit	--	--		*
<i>Terminalia chebula</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Urtica dioica</i>	Plant	--	--		*
<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>Vitis vinifera</i>	Fruit	--	--		*
<i>Zea mays</i>	Plant	--	--		*