

# List of Plants

## P-COUMARIC-ACID

Chemid

PCOUMARICACID

\*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
Actinidia chinensis	Plant	--	--		*
Agrimonia eupatoria	Plant	--	--		*
Allium sativum var. sativum	Bulb	2.0	58.0		*
Allium cepa	Leaf	--	--		Das, V. S. R., Rao, J. V. S. 1964. Phenolic Acids of Onion Plant. Curr. Sci., 33(15): 471-472.
Allium cepa	Bulb	--	--		*
Allium schoenoprasum	Leaf	--	21.0	-0.34	*
Allium cepa	Root	--	--		Das, V. S. R., Rao, J. V. S. 1964. Phenolic Acids of Onion Plant. Curr. Sci., 33(15): 471-472.
Allium ampeloprasum	Plant	--	--		*
Aloe vera	Plant	--	--		Pakistan Encyclopedia Planta Medica. 1986.
Aloe vera	Leaf	--	--		Doff, W. 1953. In Vitro Tuberculostatic Action of Aloe and its Most Important Components. Arzneim-Forsch 3: 627-630.
Aloe vera	Juice	--	--		Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.
Althaea officinalis	Flower	--	--		*
Althaea officinalis	Root	--	--		*
Althaea officinalis	Leaf	--	--		*
Ananas comosus	Plant	330.0	730.0	1.0	*
Anethum graveolens	Leaf	--	16.0	-0.35	*
Annona muricata	Plant	--	--		*
Apium graveolens	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Arachis hypogaea	Seed	--	20.0	-0.48	*
Arctostaphylos uva-ursi	Leaf	--	--		*
Artemisia absinthium	Plant	--	--		*
Artemisia dracunculus	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Aspalathus linearis	Shoot	--	1.0	-0.71	*
Avena sativa	Seed	--	--		*
Averrhoa carambola	Plant	--	--		*
Basella alba	Plant	--	--		*
Beta vulgaris	Plant	--	--		*
Brassica oleracea var. gemmifera	Leaf	--	12.0	-0.35	*

Brassica oleracea var. botrytis l.	Leaf	--	13.0	-0.35	*
Brassica oleracea var. botrytis l.	Flower	--	35.0		*
Brassica pekinensis	Leaf	--	7.0	-0.35	*
Brassica nigra	Seed	--	--		Jim Duke's personal files.
Brassica oleracea var. italica	Leaf	--	13.0	-0.35	*
Brassica oleracea var. capitata l.	Leaf	0.5	9.0	-0.35	*
Calendula officinalis	Plant	--	--		*
Capsicum frutescens	Fruit	--	540.0	2.29	*
Capsicum annuum	Fruit	--	79.0	-0.34	*
Carum carvi	Seed	--	86.0	-0.29	*
Castanea sativa	Plant	--	--		*
Catalpa ovata	Fruit	--	--		*
Catalpa bignonioides	Leaf	--	15000.0	3.59	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Centaurea cyanus	Flower	--	--		Jim Duke's personal files.
Centaurium erythraea	Plant	--	--		*
Cinnamomum verum	Bark	--	14.0		*
Citrus sinensis	Fruit Juice	--	--		Jim Duke's personal files.
Citrus paradisi	Fruit	--	53.0	-0.49	*
Citrus sinensis	Fruit	5.0	17.0	-0.69	*
Citrus sinensis	Pericarp	5.0	75.0	1.0	*
Citrus paradisi	Pericarp	5.0	25.0	-1.0	*
Citrus limon	Fruit	6.0	102.0	-0.21	*
Cocos nucifera	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Coffea arabica	Plant	--	--		*
Commelina communis	Flower	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Coriandrum sativum	Fruit	--	16.0	-0.7	*
Curcuma longa	Rhizome	--	345.0	1.0	*
Cyamopsis tetragonoloba	Silk Stigma Style	--	--		Kandasamy, M. K. 1986. The Stigmatic Exudate of Cyamopsis tetragonoloba L. Taub. Biochem Physiol Pflanz, 181(8): 571-575.
Cydonia oblonga	Fruit	--	--		*
Daucus carota	Root	--	--		*
Digitalis purpurea	Leaf	--	--		*
Echinacea purpurea	Fruit Juice	--	--		Jim Duke's personal files.
Elaeagnus angustifolia	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Elettaria cardamomum	Leaf	--	--		*
Elettaria cardamomum	Fruit	--	19.0	-0.68	*
Eleutherococcus senticosus	Root	--	--		*
Equisetum arvense	Plant	--	--		*

Eucalyptus maculata	Resin, Exudate, Sap	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Euphorbia lathyris	Leaf	--	--		*
Euphorbia hirta	Leaf	--	--		*
Fagopyrum esculentum	Testa	--	--		*
Ficus carica	Wood	--	--		*
Foeniculum vulgare	Fruit	--	93.0	-0.26	*
Foeniculum vulgare	Seed	60.0	93.0	-0.27	*
Fragaria spp	Fruit	63.0	125.0	-0.08	Jim Duke's personal files.
Gaultheria procumbens	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ginkgo biloba	Pollen Or Spore	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
Glechoma hederacea	Plant	--	--		*
Glycine max	Shoot	--	--		*
Glycine max	Seed	1.0	4.0	-0.53	*
Gossypium sp	Plant	--	--		*
Hedera helix	Plant	--	--		*
Helianthus annuus	Pollen Or Spore	--	11.0		*
Helianthus annuus	Seed	900.0	1100.0	2.71	Jim Duke's personal files.
Hordeum vulgare	Fruit	--	--		*
Hordeum vulgare	Seed	--	--		*
Humulus lupulus	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Hura crepitans	Leaf	--	--		*
Hypericum perforatum	Plant	--	--		*
Juglans regia	Testa	160.0	600.0		*
Juglans regia	Seed	0.5	3.5	-0.53	*
Juglans regia	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Juniperus communis	Leaf	--	--		*
Kalanchoe pinnata	Plant	--	--		*
Lactuca sativa	Plant	--	--		*
Laurus nobilis	Fruit	--	20.0	-0.68	*
Laurus nobilis	Leaf	--	192.0	-0.3	*
Lens culinaris	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Ligustrum japonicum	Leaf	--	--		*
Linum usitatissimum	Seed	--	60.0	-0.36	*
Lycopersicon esculentum	Fruit	--	--		*
Lythrum salicaria	Leaf	--	--		*
Malus domestica	Leaf	--	--		*
Malus domestica	Fruit	15.0	460.0	1.84	*
Mangifera indica	Plant	--	--		*
Matricaria recutita	Plant	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
Medicago sativa	Tissue Culture	--	--		*

<i>Medicago sativa</i>	Leaf	--	--		*
<i>Melilotus officinalis</i>	Plant	--	--		Pharmazie, 46: 156, 1991.
<i>Melilotus officinalis</i>	Shoot	--	--		*
<i>Melissa officinalis</i>	Shoot	--	8.3	1.41	*
<i>Mentha x piperita</i>	Shoot	--	--		*
<i>Mentha x rotundifolia</i>	Shoot	--	--		Jim Duke's personal files.
<i>Myristica fragrans</i>	Seed	--	7.0	-0.52	*
<i>Nicotiana tabacum</i>	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ocimum basilicum</i>	Leaf	--	760.0	-0.15	*
<i>Oenothera biennis</i>	Leaf	--	--		*
<i>Olea europaea</i>	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Ononis spinosa</i>	Root	--	--		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.
<i>Origanum vulgare</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Origanum majorana</i>	Leaf	--	1100.0	-0.06	*
<i>Origanum vulgare</i>	Leaf	--	--		*
<i>Oryza sativa</i>	Petiole	--	0.9		*
<i>Panax ginseng</i>	Root	--	--		*
<i>Papaver somniferum</i>	Pericarp	--	--		*
<i>Persea americana</i>	Fruit	--	--		*
<i>Petroselinum crispum</i>	Stem	--	--		*
<i>Phaseolus vulgaris</i>	Plant	--	--		*
<i>Pimpinella anisum</i>	Seed	--	737.0	1.64	*
<i>Pinus sylvestris</i>	Pollen Or Spore	--	--		*
<i>Piper nigrum</i>	Fruit	--	--		*
<i>Pisum sativum</i>	Seed	--	--		*
<i>Plantago major</i>	Plant	--	--		*
<i>Polygala senega</i>	Root	--	--		*
<i>Populus balsamifera</i>	Leaf	--	--		*
<i>Prunus laurocerasus</i>	Plant	--	--		*
<i>Prunus cerasus</i>	Fruit	--	--		*
<i>Prunus serotina</i>	Bark	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
<i>Prunus dulcis</i>	Plant	--	--		*
<i>Prunus armeniaca</i>	Plant	--	--		*
<i>Prunus persica</i>	Leaf	--	--		*
<i>Prunus domestica</i>	Fruit	--	--		Jim Duke's personal files.
<i>Pteridium aquilinum</i>	Leaf	--	--		*
<i>Pteridium aquilinum</i>	Plant	--	--		*
<i>Pueraria montana</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Pueraria montana</i>	Flower	--	--		*
<i>Punica granatum</i>	Leaf	--	--		*

<i>Punica granatum</i>	Fruit Juice	--	--		*
<i>Raphanus sativus</i>	Root	--	91.0		*
<i>Rheum rhabarbarum</i>	Root	--	--		*
<i>Rheum rhabarbarum</i>	Pt	--	44.0		*
<i>Ribes uva-crispa</i>	Fruit	--	--		*
<i>Ribes nigrum</i>	Fruit	--	--		*
<i>Ricinus communis</i>	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Rosa canina</i>	Tissue Culture	--	--		*
<i>Rosa canina</i>	Stem	--	--		*
<i>Rubus parviflorus</i>	Leaf	--	--		Li, C.Y. 1974. Phenolic Compounds in Understory Species of Alder, Conifer, and Mixed Alder-Conifer Stands of Coastal Oregon. Lloydia, 37(4): 603-607.
<i>Rubus idaeus</i>	Juice	--	--		*
<i>Rubus idaeus</i>	Leaf	--	--		*
<i>Rubus spectabilis</i>	Leaf	--	--		Li, C.Y. 1974. Phenolic Compounds in Understory Species of Alder, Conifer, and Mixed Alder-Conifer Stands of Coastal Oregon. Lloydia, 37(4): 603-607.
<i>Rubus idaeus</i>	Plant	--	--		*
<i>Rubus idaeus</i>	Bark	--	--		*
<i>Salix alba</i>	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
<i>Salvia officinalis</i>	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
<i>Salvia</i> sp.	Seed	--	19.0	-0.49	Phenolic Compounds in Food and Their Effects on Health, 67.
<i>Sambucus nigra</i>	Flower	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Sanguisorba minor</i>	Plant	--	--		*
<i>Santolina chamaecyparissus</i>	Plant	--	--		*
<i>Serenoa repens</i>	Fruit Juice	--	--		*
<i>Sesamum indicum</i>	Leaf	--	--		*
<i>Sesamum indicum</i>	Fruit	--	--		*
<i>Solanum tuberosum</i>	Tuber	4.0	250.0		*
<i>Solidago gigantea</i>	Plant	--	45.0	-1.0	*
<i>Sophora japonica</i>	Plant	--	--		*
<i>Sorbus aucubaria</i>	Plant	--	--		*
<i>Spinacia oleracea</i>	Leaf	--	133.0	-0.32	*
<i>Stachys officinalis</i>	Shoot	--	--		*
<i>Tagetes patula</i>	Plant	--	--		*
<i>Taraxacum officinale</i>	Plant	--	--		*
<i>Taraxacum officinale</i>	Flower	--	--		*
<i>Taxus baccata</i>	Leaf	4.0	965.0	-0.1	*
<i>Terminalia chebula</i>	Plant	--	--		Kim, J. S., Lee, G. D., Kwon, J. H., Yoon, H. S. 1993. Identification of Phenolic Antioxidative Components in Terminalia chebula Retz. Han'guk Nonghwa Hakhoe Chi 36 4: 239-243.
<i>Theobroma cacao</i>	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Thymus vulgaris</i>	Leaf	--	420.0	-0.24	*
<i>Tilia</i> sp.	Flower	--	--		*
<i>Trifolium pratense</i>	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.

Trigonella foenum-graecum	Plant	--	--		*
Trigonella foenum-graecum	Stem	--	--		*
Triticum aestivum	Seed	17.0	25.0	-0.47	*
Urginea maritima	Bulb	--	--		*
Urtica dioica	Plant	--	--		*
Vaccinium myrtillus	Fruit	--	--		*
Vaccinium corymbosum	Plant	--	--		*
Vaccinium myrtillus	Leaf	--	--		*
Vaccinium myrtillus	Fruit Juice	--	--		*
Vaccinium macrocarpon	Fruit	--	--		*
Valeriana officinalis	Plant	--	--		*
Vicia faba	Plant	--	--		*
Vigna radiata	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Vinca minor	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Viola tricolor	Plant	--	--		*
Vitis vinifera	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Zea mays	Sprout Seedling	--	--		*
Zea mays	Shoot	--	1.0	-0.71	Jim Duke's personal files.
Zea mays	Seed	4.0	46.0	-0.41	*
Zingiber officinale	Rhizome	--	19.0	-1.0	*