

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for CHLOROGENIC-ACID

Plant	Part	Low PPM	High PPM	StdDev	Reference
Coriandrum sativum	Shoot				--
Hordeum vulgare	Seed				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Theobroma cacao	Seed				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Uncaria guianensis	Bark				Van Ginkel, A. 1996. Identification of the Alkaloids and Flavonoids from Uncaria tomentosa Bark by TLC in Quality Control. Phytotherapy Research, 10: S18-S19.
Hyoscyamus niger	Leaf				--
Echinacea spp	Shoot				Economic & Medicinal Plant Research, 5: 253.
Glechoma hederacea	Plant				Vademecum Garcia, A.A., et al. 1998. Fitoterapia Vademecum de Prescripcioon. Masson, S. A. Barcelona, Espana. 1148 pp.
Camellia sinensis	Leaf				--
Capsicum annum	Leaf				--
Convallaria majalis	Plant				--
Uncaria tomentosa	Bark				Van Ginkel, A. 1996. Identification of the Alkaloids and Flavonoids from Uncaria tomentosa Bark by TLC in Quality Control. Phytotherapy Research, 10: S18-S19.
Lycopus virginicus	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.
Cynara cardunculus	Leaf				--
Capsicum annum	Fruit				--
Cichorium intybus	Plant				--
Capsicum frutescens	Stem				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Stachys officinalis</i>	Shoot				--
<i>Houttuynia cordata</i>	Root				--
<i>Agrimonia eupatoria</i>	Leaf				Wealth of India.
<i>Crataegus rhipidophylla</i>	Flower				--
<i>Crataegus rhipidophylla</i>	Fruit				--
<i>Clematis vitalba</i>	Plant				--
<i>Crataegus rhipidophylla</i>	Inflorescence				--
<i>Triticum aestivum</i>	Seed		5.0	-0.6169861540321878	--
<i>Crataegus rhipidophylla</i>	Leaf				--
<i>Crataegus rhipidophylla</i>	Shoot				--
<i>Crataegus rhipidophylla</i>	Bark				--
<i>Crataegus rhipidophylla</i>	Bud				--
<i>Ballota nigra</i>	Plant				--
<i>Sambucus nigra</i>	Flower		26000.0	-1.0	--
<i>Datura stramonium</i>	Plant				--
<i>Althaea officinalis</i>	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Humulus lupulus</i>	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Echinacea pallida</i>	Flower				Jim Duke's personal files.
<i>Hedera helix</i>	Plant				--
<i>Echinacea pallida</i>	Leaf				--
<i>Capsicum frutescens</i>	Fruit				--
<i>Echinacea pallida</i>	Root				Jim Duke's personal files.
<i>Foeniculum vulgare</i>	Leaf				Jim Duke's personal files.
<i>Cichorium intybus</i>	Root				--
<i>Cichorium intybus</i>	Shoot				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pimpinella anisum</i>	Plant				--
<i>Cichorium intybus</i>	Leaf				--
<i>Hordeum vulgare</i>	Fruit				--
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Leaf				--
<i>Prunus cerasus</i>	Fruit				--
<i>Hydrastis canadensis</i>	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Cydonia oblonga</i>	Fruit				--
<i>Berberis vulgaris</i>	Fruit				Jim Duke's personal files.
<i>Artemisia abrotanum</i>	Plant				--
<i>Stachys officinalis</i>	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Apium graveolens</i>	Seed				Wealth of India.
<i>Scopolia carniolica</i>	Leaf				--
<i>Teucrium scordium</i>	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Brassica oleracea</i> var. <i>capitata</i> l.	Plant				--
<i>Crataegus laevigata</i>	Plant				--
<i>Physalis peruviana</i>	Leaf				--
<i>Arachis hypogaea</i>	Seed		12.0	-0.6167484489597725	--
<i>Pluchea carolinensis</i>	Shoot				Tramil
<i>Thymus vulgaris</i>	Shoot				--
<i>Fragaria</i> spp	Fruit				Jim Duke's personal files.
<i>Stachytarpheta jamaicensis</i>	Plant				--
<i>Rubus phoenicolasius</i>	Leaf				Okuda, T., Yoshida, T., Hatano, T., Iwasaki, M., Kubo, M., Orime, T., Yoshizaki, M., Naruhashi, N. 1992. Hydrolysable Tannins as Chemotaxonomic Markers in the Rosaceae. Phytochemistry, 31(9): 3091-3096.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Equisetum arvense	Shoot				Jim Duke's personal files.
Arctium lappa	Root				--
Althaea officinalis	Root				--
Brassica oleracea var. capitata l.	Leaf				--
Vitis vinifera	Leaf				--
Juniperus communis	Leaf				--
Vitis vinifera	Root				--
Crataegus pentagyna	Plant				Schussler, M., Fricke, U., Nikolov, N., and Holzl, J. 1991. Comparison of the Flavonoids Occurring in Crataegus species and Inhibition of 3',5'-Cyclic Adenosine Monophosphate Phosphodiesterase. Plant Medica 57: Suppl Issue 2. p.A-133.
Viburnum opulus	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Dipsacus fullonum	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Senna obtusifolia	Seed				--
Lythrum salicaria	Leaf				--
Vaccinium myrtillus	Fruit		1900.0	0.5534391651296359	--
Vaccinium myrtillus	Fruit Juice				--
Taraxacum officinale	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Thymus vulgaris	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosmarinus officinalis	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Artemisia absinthium	Plant				--
Astragalus membranaceus	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Ipomoea batatas	Root				--
Stellaria media	Shoot				--
Origanum majorana	Shoot				--
Solanum torvum	Plant				--
Viburnum opulus	Branches				--
Menyanthes trifoliata	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cynara cardunculus	Flower				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Vaccinium macrocarpon	Fruit				--
Eleutherococcus senticosus	Stem Bark		77.1		--
Artemisia dracunculus	Shoot				--
Eleutherococcus senticosus	Tissue Culture				--
Strychnos nux-vomica	Seed				--
Valeriana officinalis	Root		7300.0	0.9018283707528216	--
Beta vulgaris	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ribes uva-crispa	Fruit				--
Punica granatum	Fruit				--
Theobroma cacao	Leaf				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Crataegus monogyna</i>	Plant				Schussler, M., Fricke, U., Nikolov, N., and Holzl, J. 1991. Comparison of the Flavonoids Occurring in <i>Crataegus</i> species and Inhibition of 3',5'-Cyclic Adenosine Monophosphate Phosphodiesterase. <i>Plant Medica</i> 57: Suppl Issue 2. p.A-133.
<i>Salvia officinalis</i>	Inflorescence				--
<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>Lycopersicon esculentum</i>	Fruit		18.0	-1.090975910295016	--
<i>Origanum vulgare</i>	Shoot				--
<i>Apium graveolens</i>	Root				--
<i>Allium sativum</i> var. <i>sativum</i>	Plant				Stitt, Paul. Why George should eat broccoli.
<i>Boehmeria nivea</i>	Leaf				--
<i>Cucumis sativus</i>	Fruit				--
<i>Mahonia repens</i>	Leaf				Grace, S. C., Logan, B. A., Adams III, W. W. 1998. Seasonal Differences in Foliar Content of Chlorogenic Acid, a Phenylpropanoid Antioxidant, in <i>Mahonia repens</i> . <i>Plant Cell Environ</i> , 21(5): 513-521.
<i>Angelica archangelica</i>	Plant				Pakistan Encyclopedia Planta Medica. 1986.
<i>Vitis vinifera</i>	Fruit		1400.0	0.11655949578196001	--
<i>Elaeagnus angustifolia</i>	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Punica granatum</i>	Fruit Juice				--
<i>Punica granatum</i>	Leaf				--
<i>Ilex paraguariensis</i>	Leaf				--
<i>Ribes nigrum</i>	Fruit				--
<i>Melissa officinalis</i>	Shoot		19000.0		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Crataegus cuneata	Fruit				--
Pimpinella anisum	Seed		1000.0	-0.58319807588173	--
Solanum tuberosum	Root Bark				--
Solanum tuberosum	Root		260.0	-1.3943277703321204	--
Solanum tuberosum	Flower				--
Solanum tuberosum	Leaf		2230.0	0.23157426667346181	--
Solanum tuberosum	Sprout Seedling				--
Zea mays	Leaf				--
Zea mays	Silk Stigma Style				--
Brassica oleracea var. italica	Leaf				Stitt, Paul. Why George should eat broccoli.
Eucalyptus globulus	Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
Eucalyptus globulus	Wood				Chemical Constituents of Oriental Herbs (3 diff. books)
Malus domestica	Fruit Juice				--
Mentha x piperita	Shoot				--
Malus domestica	Seed				--
Malus domestica	Pt				--
Marrubium vulgare	Plant				--
Aconitum napellus	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rubus fruticosus	Fruit				--
Prunus armeniaca	Fruit				--
Apium graveolens	Leaf				--
Allium ampeloprasum	Plant				--
Anethum graveolens	Seed				--
Peucedanum ostruthium	Root				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Achillea millefolium	Plant				Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in Achillea millefolium L. (Asteraceae). Economic Botany 48(2): 111-120, 1994.
Adonis vernalis	Plant				--
Origanum vulgare	Plant				--
Vaccinium myrtillus	Leaf		2800.0	1.0924264319161126	--
Linum usitatissimum	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Melissa officinalis	Plant				--
Crataegus laevigata	Leaf				--
Erythroxylum coca	Plant				--
Cyamopsis tetragonoloba	Seed				Kaushal, G. P., Bhatia, I. S. 1982. A Study of Polyphenols in the Seeds and Leaves of Guar (Cyamopsis tetragonoloba L. Taub). J Sci Food Agr, 33: 461-470.
Cyamopsis tetragonoloba	Leaf				Kaushal, G. P., Bhatia, I. S. 1982. A Study of Polyphenols in the Seeds and Leaves of Guar (Cyamopsis tetragonoloba L. Taub). J Sci Food Agr, 33: 461-470.
Hypericum perforatum	Plant				--
Hypericum perforatum	Leaf				--
Urtica dioica	Shoot				Jim Duke's personal files.
Urtica dioica	Flower				--
Urtica dioica	Leaf				Jim Duke's personal files.
Withania somnifera	Leaf				--
Rhododendron ponticum	Plant				--
Prunus domestica	Fruit				Jim Duke's personal files.
Cinchona pubescens	Leaf				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Corchorus olitorius	Leaf				--
Camellia sinensis	Tissue Culture				--
Daucus carota	Root				--
Sorbus aucubaria	Fruit				--
Ricinus communis	Plant				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.
Anethum graveolens	Fruit				--
Centaurea cyanus	Flower				Jim Duke's personal files.
Harpagophytum procumbens	Root				--
Centaurea cyanus	Shoot				Jim Duke's personal files.
Zingiber officinale	Plant				Stitt, Paul. Why George should eat broccoli.
Solanum melongena	Fruit				--
Morus alba	Leaf				--
Calendula officinalis	Flower				--
Trifolium pratense	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
Althaea officinalis	Flower				--
Spinacia oleracea	Shoot				--
Tanacetum vulgare	Plant				--
Harpagophytum procumbens	Tuber				--
Conium maculatum	Plant				--
Glycine max	Shoot				--
Sambucus simpsonii	Flower				Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Maranta arundinacea	Leaf				--
Linum usitatissimum	Seed				--
Rosmarinus officinalis	Shoot				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Eucommia ulmoides</i>	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Hydrastis canadensis</i>	Plant				--
<i>Plantago major</i>	Plant				--
<i>Brassica nigra</i>	Seed				Jim Duke's personal files.
<i>Matricaria recutita</i>	Plant				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>Salvia officinalis</i>	Shoot				--
<i>Vaccinium corymbosum</i>	Fruit		3000.0	1.514574437694523	--
<i>Echinacea angustifolia</i>	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Digitalis purpurea</i>	Leaf				--
<i>Lycopus europeus</i>	Plant				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		200.0	-0.7337825968387683	--
<i>Cynara cardunculus</i>	Shoot				Jim Duke's personal files.
<i>Prunus persica</i>	Flower				--
<i>Tilia sp.</i>	Flower				--
<i>Prunus persica</i>	Leaf				--
<i>Citrullus colocynthis</i>	Fruit				--
<i>Rosa damascena</i>	Pollen Or Spore		15000.0		--
<i>Solidago virgaurea</i>	Flower				--
<i>Arnica montana</i>	Flower				--
<i>Symphytum officinale</i>	Root				--
<i>Acacia nilotica</i>	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pinus sylvestris</i>	Leaf				--
<i>Satureja montana</i>	Shoot				--
<i>Vitis vinifera</i>	Shoot				--
<i>Crataegus laevigata</i>	Flower				--
<i>Nicotiana tabacum</i>	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Tropaeolum majus</i>	Pericarp				--
<i>Crataegus laevigata</i>	Fruit				--
<i>Crataegus laevigata</i>	Shoot				--
<i>Petroselinum crispum</i>	Stem				--
<i>Crataegus laevigata</i>	Bark				--
<i>Fagopyrum esculentum</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Persea americana</i>	Fruit				--
<i>Phoenix dactylifera</i>	Fruit				Abstract (See species file)
<i>Crataegus laevigata</i>	Bud				--
<i>Sesamum indicum</i>	Leaf				Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
<i>Malus domestica</i>	Fruit	5.0	15.0	-1.0935971883111022	--
<i>Malus domestica</i>	Pericarp	8.0	18.0		--
<i>Juglans regia</i>	Seed	10.0	28.0	-0.6162051230799662	--
<i>Solanum tuberosum</i>	Tuber	22.0	3950.0		--
<i>Malus domestica</i>	Leaf	100.0	1200.0	-1.3240006985895736	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Urtica dioica	Plant	200.0	5000.0	1.4138737841527487	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.
Juglans regia	Testa	220.0	800.0		--
Coriandrum sativum	Plant	305.0	320.0	-0.6800911873139804	Abstract (See species file)
Lonicera japonica	Flower	445.0	60000.0	1.0	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Eleutherococcus senticosus	Root	1000.0	6045.0	0.4924993995792986	--
Helianthus annuus	Seed	1900.0	28000.0	0.33366434629149755	--
Coffea arabica	Seed	50000.0	80000.0	2.099473455662158	--