

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for RUTIN

Plant	Part	Low PPM	High PPM	StdDev	Reference
Acacia farnesiana	Leaf				Wealth of India.
Acacia decurrens	Plant				--
Acacia catechu	Plant				--
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.
Adiantum capillus-veneris	Leaf				--
Aesculus hippocastanum	Plant				Jim Duke's personal files.
Aesculus hippocastanum	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Agathosma betulina	Essential Oil				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Agathosma betulina	Leaf				--
Agrimonia eupatoria	Inflorescence		1700.0		--
Agrimonia eupatoria	Leaf				Wealth of India.
Alisma plantago-aquatica	Leaf				--
Allium sativum var. sativum	Plant				Stitt, Paul. Why George should eat broccoli.
Allium cepa	Bulb		14000.0		--
Amaranthus spinosus	Leaf				Wealth of India.
Amaranthus sp.	Plant				--
Ammi visnaga	Leaf				--
Ammi visnaga	Flower				--
Anastatica hierochuntica	Plant				--
Anethum graveolens	Leaf		1400.0	-0.9176299796056019	Varnaite, R. 1988. Rutin Content in Capsicum, Capsella, Urtica, Primula, Lepidium, Lactuca, Brassica, Anethum, Beta, Petroselinum, Allium Genera Representatives. Liet Tsr Mokslu Akad Darb Ser C, 4: 29-32.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Apium graveolens</i>	Plant		170.0	-0.6792061954574901	--
<i>Apium graveolens</i>	Shoot		170.0	-0.5604271785023887	--
<i>Arachis hypogaea</i>	Plant				--
<i>Araucaria bidwillii</i>	Flower				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.
<i>Artemisia dracunculus</i>	Shoot	100.0	560.0	-0.5313186017977898	--
<i>Artemisia dracunculus</i>	Leaf				--
<i>Artemisia absinthium</i>	Plant				--
<i>Artemisia vulgaris</i>	Plant				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
<i>Artemisia abrotanum</i>	Plant				--
<i>Aspalathus linearis</i>	Shoot				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Asparagus officinalis</i>	Root				--
<i>Azadirachta indica</i>	Leaf				--
<i>Barosma betulina</i>	Essential Oil				--
<i>Berberis vulgaris</i>	Fruit				Jim Duke's personal files.
<i>Brassica oleracea</i> var. <i>gemmifera</i>	Shoot		20.0	-0.5716227849272344	--
<i>Brassica oleracea</i> var. <i>italica</i>	Leaf				Stitt, Paul. Why George should eat broccoli.
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Leaf				--
<i>Caesalpinia pulcherrima</i>	Flower				--
<i>Calendula officinalis</i>	Flower				--
<i>Camellia sinensis</i>	Leaf	1200.0	1580.0	-0.9064551745734906	--
<i>Capparis spinosa</i>	Flower				--
<i>Capparis spinosa</i>	Shoot				--
<i>Capparis spinosa</i>	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Capsella bursa-pastoris	Plant				--
Capsicum frutescens	Fruit		487.0	-0.597969170419332	Varnaite, R. 1988. Rutin Content in Capsicum, Capsella, Urtica, Primula, Lepidium, Lactuca, Brassica, Anethum, Beta, Petroselinum, Allium Genera Representatives. Liet Tsr Mokslu Akad Darb Ser C, 4: 29-32.
Capsicum annuum	Fruit		3874.0	-0.21269509917042856	Varnaite, R. 1988. Rutin Content in Capsicum, Capsella, Urtica, Primula, Lepidium, Lactuca, Brassica, Anethum, Beta, Petroselinum, Allium Genera Representatives. Liet Tsr Mokslu Akad Darb Ser C, 4: 29-32.
Centaurea calcitrapa	Plant				--
Chamaemelum nobile	Plant				--
Cichorium intybus	Leaf		14000.0	-0.1353936273578098	--
Cichorium intybus	Seed		6400.0	0.07536225897017279	--
Citrullus lanatus	Seed	15000.0	16500.0	1.606098941923909	--
Citrus sinensis	Pericarp		6100.0		Jim Duke's personal files.
Citrus limon	Fruit	1.0	2.0	-0.6531383244068485	--
Citrus sinensis	Leaf		9000.0	-0.44580487824979076	Jim Duke's personal files.
Citrus limon	Leaf				Jim Duke's personal files.
Cnicus benedictus	Plant				Jim Duke's personal files.
Convallaria majalis	Plant				--
Coriandrum sativum	Fruit				--
Coriandrum sativum	Shoot				--
Cornus mas	Leaf				Delaveau, P., Paris, R. R. 1961. Concerning the Presence of Rutoside and Gallic Derivatives from the Flowers of Cornus mas and Preliminary Research with C. sanguinea. Bull Soc Chim Biol, 43: 661-666.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cornus mas	Flower				Delaveau, P., Paris, R. R. 1961. Concerning the Presence of Rutoside and Gallic Derivatives from the Flowers of Cornus mas and Preliminary Research with C. sanguinea. Bull Soc Chim Biol, 43: 661-666.
Crataegus pentagyna	Plant				Schussler, M., Fricke, U., Nikolov, N., and Holz, 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.
Crataegus laevigata	Flower				--
Crataegus rhipidophylla	Inflorescence				--
Crataegus laevigata	Plant				--
Crataegus laevigata	Leaf				--
Crataegus rhipidophylla	Bud				--
Crataegus monogyna	Flower				--
Crataegus monogyna	Leaf				--
Crataegus laevigata	Bud				--
Crataegus rhipidophylla	Leaf				--
Crataegus monogyna	Inflorescence				--
Cucumis melo	Plant				Stitt, Paul. Why George should eat broccoli.
Cymbopogon citratus	Leaf				--
Cynara cardunculus	Leaf				Jim Duke's personal files.
Datura stramonium	Plant				--
Dictamnus albus	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Dodonaea viscosa	Leaf				--
Dodonaea viscosa	Fruit				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Echinacea purpurea	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Echinacea spp	Leaf				Economic & Medicinal Plant Research, 5: 253.
Eriobotrya japonica	Leaf		10500.0	-0.35268150298219647	Jim Duke's personal files.
Erythroxylum novogranatense	Leaf		5000.0	-0.6941338789633755	--
Erythroxylum coca	Leaf		5000.0	-0.6941338789633755	--
Eschscholzia californica	Inflorescence				--
Eschscholzia californica	Flower	5000.0	50000.0	0.01608811490970148	--
Eucalyptus citriodora	Leaf		12500.0	-0.2285170026254041	--
Eucalyptus macrorrhuncha	Plant	120000.0	200000.0	2.320921435804009	--
Eucalyptus globulus	Leaf		0.0	-1.0045451298553565	--
Eupatorium perfoliatum	Plant				--
Euphorbia pulcherrima	Leaf				--
Euphrasia officinalis	Plant				--
Fagopyrum esculentum	Seed	87.0	511.0	-0.8171633178530503	--
Fagopyrum esculentum	Leaf	11600.0	63700.0	2.950094206508481	--
Fagopyrum esculentum	Petiole	505.0	975.0		--
Fagopyrum esculentum	Flower	40000.0	63700.0	0.2299159705378943	--
Fagopyrum esculentum	Stem	600.0	50600.0		--
Fagopyrum esculentum	Testa		43.0		--
Fagopyrum esculentum	Plant	1000.0	68300.0	0.3436567156061438	--
Fallopia japonica	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ficus carica	Fruit				--
Ficus carica	Leaf	500.0	14300.0	-0.11676895230429095	--
Filipendula ulmaria	Shoot				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Filipendula ulmaria	Plant				--
Foeniculum vulgare	Seed				--
Foeniculum vulgare	Fruit				--
Forsythia suspensa	Flower		1000.0	-0.7486976460962438	--
Forsythia suspensa	Fruit				--
Galega officinalis	Shoot				--
Ginkgo biloba	Plant				Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
Ginkgo biloba	Leaf	6.0	30000.0	0.8579223754965293	Jim Duke's personal files.
Glechoma hederacea	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Shoot				--
Glycyrrhiza uralensis	Leaf		53.0	-1.0012547705959014	--
Gossypium sp	Plant				--
Hedera helix	Stem				--
Hemidesmus indicus	Flower				--
Houttuynia cordata	Root				--
Houttuynia cordata	Plant				--
Houttuynia cordata	Leaf				--
Houttuynia cordata	Shoot		1200.0	-0.48355068105178134	--
Humulus lupulus	Leaf		2000.0	-0.8803806294985641	--
Humulus lupulus	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hydrangea paniculata	Flower		41000.0	-0.12438273915261497	--
Hydrangea arborescens	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Hyoscyamus niger	Leaf				--
Hypericum perforatum	Leaf	2000.0	3000.0	-0.8182983793201679	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hypericum perforatum	Shoot		10000.0	0.17325822920583467	--
Hypericum perforatum	Flower	1000.0	2800.0	-0.7206034752837803	--
Hypericum perforatum	Plant		16000.0	-0.4415440806455522	--
Hypericum perforatum	Stem				--
Ilex paraguariensis	Leaf				--
Illicium verum	Fruit				--
Juniperus communis	Leaf				--
Juniperus communis	Fruit				--
Laurus nobilis	Leaf				--
Leonurus cardiaca	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.
Ligustrum lucidum	Leaf				--
Lycium chinense	Leaf				--
Lycopersicon esculentum	Leaf		24000.0	0.4854288744261521	--
Lycopersicon esculentum	Fruit				--
Maclura pomifera	Wood				Smith, J. L. and Perino, J. V. 1981. Osage Orange (Maclura pomifera): History and Economic Uses. Economic Botany 35(1): 24-41
Magnolia denudata	Flower				--
Magnolia kobus	Flower		500.0	-0.7565015824330391	--
Malus domestica	Fruit Epidermis				--
Malus domestica	Pericarp				--
Malus domestica	Fruit				--
Malus domestica	Leaf	0.0	8885.0	-0.45294433702030634	--
Malus domestica	Fruit Juice				--
Matricaria recutita	Flower				--
Matricaria recutita	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Melia azedarach	Leaf				--
Mentha x piperita	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.
Menyanthes trifoliata	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Mercurialis annua	Plant				--
Morinda citrifolia	Fruit		500.0	-0.5964904095908007	--
Morus alba	Leaf	20000.0	60000.0	2.720389880848415	--
Morus alba	Fruit				--
Musa x paradisiaca	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Nasturtium officinale	Shoot				--
Nelumbo nucifera	Embryo				--
Nerium oleander	Leaf				--
Nicotiana tabacum	Leaf		10000.0	-0.38372262807139457	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Nicotiana glauca	Leaf	12000.0	21000.0	0.29918212389096355	--
Nigella sativa	Seed		200.0	-0.8642978830410316	--
Ocimum basilicum	Leaf				--
Olea europaea	Pericarp				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.
Opuntia ficus-indica	Pt				--
Opuntia ficus-indica	Flower				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.



Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum vulgare	Plant				Stitt, Paul. Why George should eat broccoli.
Origanum majorana	Shoot				--
Passiflora incarnata	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.
Pastinaca sativa	Plant				--
Petroselinum crispum	Shoot		44480.0	2.746754959397039	Varnaite, R. 1988. Rutin Content in Capsicum, Capsella, Urtica, Primula, Lepidium, Lactuca, Brassica, Anethum, Beta, Petroselinum, Allium Genera Representatives. Liet Tsr Mokslu Akad Darb Ser C, 4: 29-32.
Petroselinum crispum	Leaf		30000.0	0.8579223754965293	--
Phaseolus vulgaris	Shoot				--
Phaseolus aborigineus	Shoot				--
Phoenix dactylifera	Pollen Or Spore				Abstract (See species file)
Phyllanthus emblica	Fruit		4600.0	-0.13011199443859983	--
Phyllanthus amarus	Shoot		1378.0	-0.4702652280942977	--
Phyllanthus emblica	Leaf		21000.0	0.29918212389096355	--
Phyllanthus niruri	Plant				Tramil
Physalis peruviana	Root				--
Pimpinella anisum	Fruit				--
Pimpinella anisum	Seed				--
Piper nigrum	Fruit				--
Plumeria acutifolia	Plant				--
Polygonum aviculare	Plant				--
Polygonum hydropiper	Leaf	25000.0	30000.0	0.8579223754965293	--
Prunella vulgaris	Plant				Chemical Constituents of Oriental Herbs (3 diff. books)
Prunus armeniaca	Leaf		17700.0	0.09431069830225612	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Prunus spinosa	Flower				--
Prunus armeniaca	Fruit				--
Prunus cerasus	Plant				--
Pteridium aquilinum	Plant				--
Pueraria montana	Leaf				--
Punica granatum	Fruit Juice				--
Punica granatum	Plant				Seeram, N. P., Schulman, R. N., and Heber, D., eds. 2006. Pomegranates - Ancient Roots to Modern Medicine. Taylor & Francis. Boca Raton, FL. 244 pp.
Punica granatum	Leaf				--
Rheum rhabarbarum	Leaf		6000.0	-0.6320516287849793	--
Rheum officinale	Plant		13000.0	-0.48658427928331677	--
Rheum officinale	Root				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Ribes nigrum	Fruit				--
Ribes nigrum	Fruit Juice				--
Ribes nigrum	Leaf				--
Ricinus communis	Leaf		2000.0	-0.8803806294985641	--
Rosa multiflora	Fruit				--
Rubus idaeus	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.
Rumex crispus	Leaf				--
Rumex acetosella	Shoot		5300.0	-0.17753743877266479	--
Rumex acetosa	Leaf		12800.0	-0.20989232757188522	--
Ruscus aculeatus	Root	91.0	400.0		--
Ruscus aculeatus	Plant	300.0	400.0	-0.675753113561928	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ruscus aculeatus	Shoot				--
Ruta graveolens	Plant		20000.0	-0.38149048246186607	--
Salix alba	Leaf				--
Salix alba	Bark				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Sambucus nigra	Flower	19000.0	25000.0	-0.37410870193006646	--
Sambucus canadensis	Leaf	35000.0	38000.0	1.3545803769236988	--
Sambucus canadensis	Flower	7700.0	52000.0	0.047303860256882914	--
Sambucus nigra	Leaf	210.0	9200.0	-0.43338842821411155	--
Scopolia carniolica	Leaf				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Selenicereus grandiflorus	Flower				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Serenoa repens	Fruit				--
Smilax china	Leaf				--
Solanum tuberosum	Shoot				--
Solanum tuberosum	Flower				--
Solidago virgaurea	Leaf				--
Solidago gigantea	Leaf				--
Sophora japonica	Flower	128000.0	140000.0	1.420796655532866	--
Sophora japonica	Leaf	0.0	40000.0	1.4787448772804912	--
Sophora japonica	Bud	176000.0	229000.0		--
Sophora japonica	Fruit	0.0	25000.0	2.1904049980260094	--
Sorbus aucubaria	Fruit				--
Spinacia oleracea	Shoot				--
Spinacia oleracea	Leaf		170.0	-0.993991147325029	--
Stellaria media	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Stevia rebaudiana</i>	Tissue Culture		7.0		Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
<i>Syringa vulgaris</i>	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Tephrosia purpurea</i>	Leaf				--
<i>Terminalia chebula</i>	Fruit				Polovyanov, G. G. 1974. Flavonoids from the Fruit of the Yellow Myrobalan Plum. Chem. Nat. Comp. 10 (5): 690-.
<i>Teucrium scorodonia</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Teucrium scordium</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Theobroma cacao</i>	Leaf				--
<i>Tribulus terrestris</i>	Shoot				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Trigonella foenum-graecum</i>	Leaf				--
<i>Tussilago farfara</i>	Flower		3600.0	-0.7081171771449077	--
<i>Uncaria tomentosa</i>	Bark				Van Ginkel, A. 1996. Identification of the Alkaloids and Flavonoids from <i>Uncaria tomentosa</i> Bark by TLC in Quality Control. Phytotherapy Research, 10: S18-S19.
<i>Uncaria guianensis</i>	Bark				Van Ginkel, A. 1996. Identification of the Alkaloids and Flavonoids from <i>Uncaria tomentosa</i> Bark by TLC in Quality Control. Phytotherapy Research, 10: S18-S19.
<i>Urtica dioica</i>	Leaf				Jim Duke's personal files.
<i>Urtica dioica</i>	Inflorescence				Jim Duke's personal files.
<i>Urtica dioica</i>	Root				Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Urtica dioica	Shoot	500.0	6000.0	-0.12529127545671806	--
Urtica dioica	Flower		7000.0	-0.6550504100546993	Jim Duke's personal files.
Vaccinium corymbosum	Plant				--
Vaccinium myrtillus	Leaf				--
Vigna radiata	Sprout Seedling				--
Viola tricolor	Flower	100000.0	230000.0	2.8255051961560307	--
Viola odorata	Flower		20000.0	-0.45214806529802004	--
Vitis vinifera	Leaf				--
Withania somnifera	Leaf				--
Xylopi aethiopica	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Zizyphus jujuba	Leaf		15000.0	-0.0733113771794136	--