

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for BETA-CAROTENE

Plant	Part	Low PPM	High PPM	StdDev	Reference
Acacia decurrens	Plant				--
Acacia nilotica	Plant				--
Acacia farnesiana	Leaf	120.0	646.0	1.6753562972527778	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Achillea millefolium	Plant				--
Actaea racemosa	Root		2.4	-0.421076046376712	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Actinidia chinensis	Fruit	0.4	6.0	-0.1392027372339869	--
Aegle marmelos	Fruit	0.5	1.3	-0.1482877525530302	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Aglaonema commutatum	Fruit				Wealth of India.
Aleurites moluccana	Seed		0.0	-0.42930857989782434	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium sativum var. sativum	Leaf	9.0	68.0	-0.841802785465085	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium cepa	Leaf	12.0	158.0	-0.4498575995747604	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium sativum var. sativum	Root	0.1	0.2	-0.4351433725059564	--
Allium ampeloprasum	Root	0.2	1.8	-0.4249125898665059	--
Allium schoenoprasum	Leaf	34.0	475.0	0.930660444061161	--
Allium sativum var. sativum	Flower	0.6	5.0	-0.5451960528647178	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium cepa	Flower		28.0	-0.18921282459251038	--
Allium ampeloprasum	Leaf	0.2	230.0	-0.13630145086250064	--
Allium sativum var. sativum	Shoot	2.0	9.0	-0.6835691781431281	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium sativum var. sativum	Bulb	0.0	0.17	-1.0	--
Allium cepa	Bulb	0.0	52.0	0.9999999999999998	--
Allium ampeloprasum	Flower	25.0	151.0	1.7145235700805992	--
Alocasia macrorrhiza	Root				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Aloe vera	Leaf		3.0	-1.1248743086080972	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Aloe vera	Stem Essent. Oil		7.2		Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.
Aloe spp.	Leaf	0.2	31.0	-1.0029358063311073	--
Alpinia galanga	Rhizome	15.0	108.0	1.413458979716062	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Althaea officinalis	Root				--
Amaranthus sp.	Leaf	0.0	508.0	1.0743736788876133	--
Amaranthus spinosus	Leaf	65.0	408.0	0.6388790278983637	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Amorphophallus konjac	Root				--
Amorphophallus campanulatus	Root	0.0	6.8	-0.3929413941182232	--
Anacardium occidentale	Seed	0.0	0.6	-0.39180302186339344	--
Anacardium occidentale	Leaf	6.0	20.0	-1.0508402179399248	--
Anacardium occidentale	Fruit	7.6	53.0	-0.04835258404355484	--
Ananas comosus	Fruit	0.0	3.0	-0.14500168318231235	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Angelica sinensis	Root	0.3	1.2	-0.42874913335629994	--
Annona diversifolia	Fruit	0.0	0.4	-0.1500274363375278	--
Annona squamosa	Fruit	0.0	0.2	-0.1504140327340827	--
Annona cherimola	Fruit	0.0	0.2	-0.1504140327340827	--
Annona glabra	Fruit	3.0	23.0	-0.10634204352680936	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Annona reticulata	Fruit	0.0	0.2	-0.1504140327340827	--
Annona muricata	Fruit	0.0	0.6	-0.1496408399409727	--
Apium graveolens	Fruit	8.0	36.0	-0.0812132777507324	--
Apium graveolens	Seed	7.5	36.0	1.8210249021680307	--
Apium graveolens	Pt	1.0	144.0	1.4105317625651812	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Arachis hypogaea	Seed	0.0	0.34	-0.40805543034498004	--
Arachis hypogaea	Leaf	77.0	360.0	0.42984159542352385	--
Arctium lappa	Root	11.0	45.0	-0.148681458601344	--
Arctostaphylos uva-ursi	Leaf	20.0	172.0	-0.3888883484362654	--
Areca catechu	Plant				--
Armoracia rusticana	Root	27.0	150.0	0.5227136521125912	--
Arracacia xanthorrhiza	Root	1.1	3.8	-0.4121241115671928	--
Artemisia dracunculus	Leaf	2.0	74.0	-0.8156731064057301	--
Artemisia absinthium	Leaf		500.0	1.0395341068084734	--
Artemisia vulgaris	Leaf	21.0	168.0	-0.4063081344758354	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Artocarpus altilis	Seed	3.0	6.0	-0.05425299955351525	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Artocarpus altilis	Fruit	0.04	0.1	-0.15060733093236026	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Artocarpus heterophyllus	Fruit	0.2	8.0	-0.1353367732684366	--
Asimina triloba	Fruit	0.4	2.5	-0.14596817417369995	--
Asparagus officinalis	Shoot	0.3	120.0	-0.17690767722048123	--
Asparagus officinalis	Root	6.5	65.0	-0.020796675608213463	--
Astragalus membranaceus	Root				--
Avena sativa	Plant	16.0	72.0	-0.3372351827937805	--
Averrhoa carambola	Fruit	0.03	75.0	-0.005826980422501522	--
Averrhoa bilimbi	Fruit	0.35	14.0	-0.12373888137178571	--
Bactris gasipaes	Fruit	0.5	55.0	-0.04448662007800453	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Basella alba	Leaf	48.0	695.0	1.88874867623751	--
Benincasa hispida	Fruit	0.0	2.5	-0.14596817417369995	--
Berberis vulgaris	Bark				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Berberis vulgaris</i>	Fruit				Jim Duke's personal files.
<i>Berberis vulgaris</i>	Root		0.0	-0.4364222203358877	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Bertholletia excelsa</i>	Seed		0.0	-0.42930857989782434	USDA's Ag Handbook 8 and sequelae)
<i>Beta vulgaris</i>	Root	0.0	438.0	2.3642545272136704	--
<i>Bixa orellana</i>	Fruit	0.9	113.0	0.0676263349229542	--
<i>Blighia sapida</i>	Aril	5.5	18.0	1.0	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Boehmeria nivea</i>	Leaf	52.0	403.0	0.6171042953489012	--
<i>Borago officinalis</i>	Leaf	25.0	360.0	0.42984159542352385	USDA's Ag Handbook 8 and sequelae)
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Flower		4.0	-0.5606735845287268	--
<i>Brassica rapa</i>	Leaf	18.0	385.0	0.5387152581708363	USDA's Ag Handbook 8 and sequelae)
<i>Brassica oleracea</i> var. <i>sabellica</i> l.	Leaf	50.0	345.0	0.3645173977751364	--
<i>Brassica oleracea</i> var. <i>gemmifera</i>	Leaf	5.0	41.0	-0.9593863412321825	USDA's Ag Handbook 8 and sequelae)
<i>Brassica napus</i> var. <i>napobrassica</i>	Root		0.0	-0.4364222203358877	USDA's Ag Handbook 8 and sequelae)
<i>Brassica rapa</i>	Root				--
<i>Brassica oleracea</i> var. <i>viridis</i> l.	Leaf	20.0	328.0	0.29048330710696396	--
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Leaf	9.0	138.0	-0.5369565297726103	--
<i>Brassica chinensis</i>	Leaf	18.0	385.0	0.5387152581708363	--
<i>Brassica oleracea</i> var. <i>italica</i>	Leaf	9.0	138.0	-0.5369565297726103	--
<i>Brassica oleracea</i>	Stem	0.24	2.67	-0.848867975828728	--
<i>Brassica oleracea</i> var. <i>capitata</i> l.	Leaf	0.6	12.0	-1.085679790019065	--
<i>Brassica nigra</i>	Leaf	29.0	475.0	0.930660444061161	USDA's Ag Handbook 8 and sequelae)
<i>Bromelia pinguin</i>	Shoot	0.0	1.7	-0.7168901597353382	--
<i>Brosimum alicastrum</i>	Fruit	5.0	35.0	-0.08314625973350755	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Bupleurum chinense</i>	Root	4.0	36.0	-0.20622961094825273	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Byrsonima crassifolia	Fruit	0.02	2.8	-0.1453882795788675	--
Cajanus cajan	Seed	0.84	4.6	-0.14176596830052063	--
Cajanus cajan	Fruit	0.4	4.0	-0.1430687011995372	--
Calathea macrosepala	Flower		0.0	-0.6225837111847629	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Camellia sinensis	Leaf	27.0	84.0	-0.7721236413068051	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Canavalia ensiformis	Fruit	0.24	2.2	-0.1465480687685324	--
Canavalia ensiformis	Seed	0.0	0.2	-0.41680672721968065	--
Canna indica	Root	0.1	0.3	-0.4345039485909906	--
Cannabis sativa	Seed	0.0	0.06	-0.4255580240943812	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Capsella bursa-pastoris	Plant	2.6	22.0	-0.6080296361587286	--
Capsicum annuum	Fruit	25.0	95.0	0.032832659233001486	--
Capsicum frutescens	Fruit	1.0	38.0	-0.0773473137851821	--
Carica papaya	Pericarp				Jim Duke's personal files.
Carica papaya	Leaf	116.0	514.0	1.1005033579469683	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Carica papaya	Seed Oil				Jim Duke's personal files.
Carica papaya	Fruit				--
Carica pentagona	Fruit	0.6	9.0	-0.13340379128566146	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Carthamus tinctorius	Flower	13.0	90.0	0.770394138576049	--
Carum carvi	Fruit		2.0	-0.14693466516508752	--
Carum carvi	Seed		2.0	-0.30429005311638807	--
Carya illinoensis	Seed	0.13	0.83	-0.3774258912835282	--
Casimiroa edulis	Fruit	0.3	2.4	-0.1461614723719775	--
Catha edulis	Leaf		18.0	-1.0595501109597099	--
Caulophyllum thalictroides	Root	2.6	24.0	-0.28296048074413105	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Centella asiatica	Leaf	40.0	369.0	0.46903611401255635	--
Chamaemelum nobile	Flower		2.2	-0.588533141523943	--
Chenopodium ambrosioides	Leaf	35.0	165.0	-0.41937297400551293	--
Chenopodium album	Leaf	71.0	316.0	0.23822394898825403	--
Chondrus crispus	Plant		55.0	-0.42930529693786285	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Chrysanthemum parthenium	Leaf	2.5	14.0	-1.0769698969992798	--
Chrysanthemum coronarium	Bud	88.0	1183.0	0.9999999999999998	--
Chrysanthemum parthenium	Plant		14.0	-0.6513567486971203	--
Chrysanthemum coronarium	Leaf	32.0	485.0	0.9742099091600859	--
Chrysobalanus icaco	Fruit	0.7	5.0	-0.14113571921676207	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Chrysophyllum cainito	Fruit	0.0	0.9	-0.14906094534614023	--
Cicer arietinum	Seed	0.4	0.5	-0.39805394820246537	USDA's Ag Handbook 8 and sequelae)
Cichorium intybus	Leaf	0.0	228.0	-0.14501134388228565	USDA's Ag Handbook 8 and sequelae)
Cichorium endivia	Leaf	9.6	241.0	-0.0883970392536832	--
Cimicifuga racemosa	Root	5.0	24.0	-0.28296048074413105	--
Cinnamomum verum	Bark	1.0	2.0	-0.7112344242846967	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cinnamomum aromaticum	Bark	1.0	2.0	-0.7112344242846967	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Citrullus lanatus	Fruit	2.0	48.0	-0.05801749395743059	--
Citrus paradisi	Fruit	0.0	5.0	-0.14113571921676207	--
Citrus limon	Fruit	0.0	2.0	-0.14693466516508752	--
Citrus sinensis	Fruit	1.0	28.0	-0.0966771336129336	--
Citrus aurantiifolia	Fruit	0.0	2.0	-0.14693466516508752	--
Citrus aurantium	Fruit	1.0	27.0	-0.09861011559570874	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Citrus reticulata	Fruit	1.0	44.0	-0.0657494218885312	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Citrus sinensis	Pericarp				Jim Duke's personal files.
Cnicus benedictus	Plant	18.0	133.0	-0.006865949688543744	--
Cnidioscolus chayamansa	Leaf	60.0	425.0	0.7129131185665362	--
Coccinia grandis	Fruit	15.6	226.0	0.28605329897654624	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Coffea arabica	Leaf	20.0	25.0	-1.0290654853904624	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Coix lacryma-jobi	Seed		0.0	-0.42930857989782434	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cola acuminata	Seed		1.0	-0.36679931650710623	--
Colocasia esculenta	Root	0.0	0.8	-0.4313068290161624	--
Colocasia esculenta	Leaf	18.0	298.0	0.1598349118101891	--
Corchorus olitorius	Leaf	33.0	495.0	1.017759374259011	--
Coriandrum sativum	Leaf	29.0	228.0	-0.14501134388228565	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Coriandrum sativum	Seed		0.0	-0.42930857989782434	--
Corylus avellana	Seed	0.0	0.4	-0.404304874541537	--
Crataegus rhipidophylla	Fruit		5.4	-0.14036252642365205	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Crataegus laevigata	Fruit	1.4	5.0	-0.14113571921676207	--
Crescentia alata	Seed		0.2	-0.41680672721968065	--
Crocus sativus	Silk Stigma Style				--
Cucumis melo	Fruit	0.2	201.0	0.23772874940716746	USDA's Ag Handbook 8 and sequelae)
Cucumis sativus	Fruit	0.3	8.0	-0.1353367732684366	--
Cucurbita pepo	Fruit	9.6	114.0	0.06955931690572935	USDA's Ag Handbook 8 and sequelae)
Cucurbita spp	Fruit	0.12	1.9	-0.14712796336336506	--
Cucurbita pepo	Flower	12.0	240.0	3.0920238881774016	--
Cucurbita pepo	Seed	2.0	2.5	-0.27303542142102893	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cuminum cyminum	Fruit	5.0	8.0	-0.1353367732684366	--
Cuminum cyminum	Seed	5.0	8.0	0.07076552722792115	--
Curcuma longa	Rhizome		0.0	-0.746733045887731	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Curcuma longa	Plant	6.0	18.0	-0.6296931924279244	--
Cyamopsis tetragonoloba	Shoot		11.0	-0.6744401420904678	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyamopsis tetragonoloba	Fruit		2.0	-0.14693466516508752	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cycas revoluta	Fruit				--
Cyclanthera pedata	Fruit	0.3	82.0	0.007703893456924532	--
Cydonia oblonga	Fruit	0.0	16.0	-0.1198729174062354	--
Cynara cardunculus	Flower	1.0	20.0	-0.3130330779045825	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyphomandra betacea	Fruit	3.0	32.0	-0.08894520568183299	--
Cyrtosperma chamissonis	Root	0.0	0.2	-0.4351433725059564	--
Daucus carota	Root	27.0	673.0	3.866900727382954	--
Dioscorea alata	Root	0.0	0.2	-0.4351433725059564	--
Dioscorea villosa	Root	7.0	29.0	-0.2509892849958484	--
Dioscorea sp.	Root		19.0	-0.31493167649241366	--
Dioscorea pentaphylla	Root				--
Diospyros digyna	Fruit	2.0	6.0	-0.1392027372339869	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Durio zibethinus	Fruit	0.1	1.0	-0.14886764714786266	--
Echinacea spp	Root		2.2	-0.4223548942066434	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Echinacea purpurea	Root	0.6	2.2	-0.4223548942066434	--
Elaeagnus umbellatus	Fruit	5.5	30.0	-0.0928111696473833	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Elaeagnus commutata</i>	Fruit	0.2	1.4	-0.14809445435475266	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Elaeis guineensis</i>	Fruit	365.0	575.0	0.9606640109650738	--
<i>Eleocharis dulcis</i>	Tuber		0.0	-0.7088752828636876	--
<i>Eleutherococcus senticosus</i>	Root	6.0	30.0	-0.24459504584619188	--
<i>Ephedra sinica</i>	Plant	8.0	37.0	-0.5267913001492441	--
<i>Equisetum arvense</i>	Plant	11.0	49.0	-0.4618006313416566	--
<i>Equisetum arvense</i>	Sprout Seedling				Jim Duke's personal files.
<i>Eriobotrya japonica</i>	Fruit	2.6	68.0	-0.019357854301927577	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eriodictyon californicum</i>	Leaf	21.0	96.0	-0.7198642831880951	--
<i>Erythrina fusca</i>	Leaf	23.0	125.0	-0.5935708344012127	--
<i>Erythrina berteroana</i>	Shoot	2.0	14.0	-0.6607465880114773	--
<i>Erythroxylum coca</i>	Leaf	5.4	7.0	-1.1074545225685273	--
<i>Eugenia floribunda</i>	Fruit		0.0	-0.15080062913063783	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eugenia uniflora</i>	Fruit	9.0	101.0	0.04443055112965239	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eugenia brasiliensis</i>	Fruit	0.4	2.4	-0.1461614723719775	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Eupatorium perfoliatum</i>	Plant				--
<i>Euphrasia officinalis</i>	Plant	11.0	73.0	-0.3318192937264815	--
<i>Ficus carica</i>	Fruit	0.3	16.0	-0.1198729174062354	--
<i>Foeniculum vulgare</i>	Fruit	0.0	1.0	-0.14886764714786266	--
<i>Foeniculum vulgare</i>	Plant	21.0	241.0	0.5780500695797443	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Foeniculum vulgare</i>	Seed	0.1	0.9	-0.37305024284617794	--
<i>Fragaria spp</i>	Fruit	0.089	7.0	-0.13726975525121177	--
<i>Frangula purshiana</i>	Bark	13.0	46.0	2.1374028017190314	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Frangula alnus	Fruit				--
Fucus vesiculosus	Plant	5.0	40.0	-0.5105436329473473	--
Garcinia mangostana	Fruit		0.0	-0.15080062913063783	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Gentiana lutea	Root	9.0	39.0	-0.18704689349928313	--
Ginkgo biloba	Tissue Culture				Jim Duke's personal files.
Ginkgo biloba	Leaf	7.2	30.0	-1.007290752841	--
Ginkgo biloba	Seed	1.0	4.0	-0.17927152633495164	--
Gliricidia sepium	Flower	0.7	5.0	-0.5451960528647178	--
Glycine max	Plant		0.3	-0.725554428919116	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Sprout Seedling	0.2	3.5	1.8424562236243391	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Fruit	4.1	13.4	-0.12489867056145085	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Seed	0.0	11.3	0.2770460964172915	--
Glycine max	Seed Oil				--
Glycyrrhiza glabra	Root				--
Glycyrrhiza glabra	Seed		5.0	-0.11676226294423345	--
Gymnema sylvestre	Leaf	6.0	30.0	-1.007290752841	--
Harpagophytum procumbens	Root				--
Helianthus tuberosus	Tuber	0.0	6.0	1.414212086777973	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Helianthus annuus	Seed	0.0	0.3	-0.41055580088060895	USDA's Ag Handbook 8 and sequelae)
Hibiscus sabdariffa	Flower	1.0	9.0	-0.4832859262086817	--
Hibiscus rosa-sinensis	Leaf	75.0	750.0	2.1282707342815974	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Hibiscus sabdariffa	Leaf	41.0	555.0	1.2790561648525607	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hippophae rhamnoides	Fruit	3.0	80.0	0.0038379294913742307	--
Hordeum vulgare	Seed	0.0	1.0	-0.36679931650710623	Jim Duke's personal files.*
Hordeum vulgare	Plant	149.0	660.0	2.8473075887780093	Jim Duke's personal files.*
Hordeum vulgare	Stem		312.0	1.4040090844278104	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Humulus lupulus	Fruit		2.4	-0.1461614723719775	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Humulus lupulus	Flower	0.5	2.4	-0.5854376351911411	--
Hydrangea arborescens	Root				--
Hydrastis canadensis	Root	0.8	3.0	-0.4172395028869181	--
Hylocereus undatus	Fruit		0.0	-0.15080062913063783	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hylocereus guatemalensis	Fruit	0.05	0.7	-0.14944754174269512	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Hypericum perforatum	Shoot		12.1	-0.6694191722615046	--
Inga feuillei	Aril		0.0	-1.0	J Cell Biochem VOL. 22=1995
Inga edulis	Seed		0.0	-0.42930857989782434	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Inula helenium	Root				--
Ipomoea batatas	Leaf	1.8	345.0	0.3645173977751364	--
Ipomoea aquatica	Leaf	28.0	500.0	1.0395341068084734	--
Ipomoea batatas	Root	0.1	476.0	2.607235614900618	--
Iris x germanica	Leaf				--
Juglans nigra	Hull Husk		0.6	-1.3448430585325335	--
Juglans nigra	Fruit		0.6	-0.1496408399409727	--
Juglans regia	Seed	0.0	1.0	-0.36679931650710623	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Juglans nigra	Pericarp		0.6		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Juglans nigra	Seed	1.0	2.0	-0.30429005311638807	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Juniperus communis	Fruit	4.0	12.2	-0.1272182489407809	--
Justicia pectoralis	Leaf	27.0	178.0	-0.3627586693769105	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Lablab purpureus	Seed	0.66	5.44	-0.08925818705231736	--
Lactuca sativa	Leaf	11.0	190.0	-0.3104993112582005	--
Lagenaria siceraria	Fruit				--
Larrea tridentata	Plant	45.0	138.0	0.02021349564795107	--
Lens culinaris	Sprout Seedling	0.3	1.0	-0.29001625742234954	USDA's Ag Handbook 8 and sequelae)
Lens culinaris	Seed		16.0	0.5708396343536667	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Lepidium sativum	Leaf	20.0	526.0	1.1527627160656782	--
Licania platypus	Fruit	1.6	7.7	-0.13591666786326906	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Linum usitatissimum	Seed	0.0	0.321	-0.4092431063494038	--
Lobelia inflata	Leaf	6.0	54.0	-0.90277203660358	--
Luffa aegyptiaca	Leaf	92.0	933.0	2.925225945591924	--
Luffa aegyptiaca	Fruit	1.2	34.0	-0.0850792417162827	--
Lupinus mutabilis	Seed	1.3	1.5	-0.33554468481174715	--
Lupinus mutabilis	Fruit	0.3	1.0	-0.14886764714786266	--
Lycium chinense	Leaf	44.0	428.0	0.7259779580962136	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Lycium barbarum	Fruit	75.0	90.0	0.023167749319125738	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Lycopersicon esculentum	Fruit	7.0	113.0	0.0676263349229542	--
Lycopodium selago	Plant				--
Macadamia spp	Seed		0.0	-0.42930857989782434	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Malpighia glabra	Fruit	3.0	69.0	-0.017424872319152424	--
Malus domestica	Fruit	0.0	76.0	-0.0038939984397263717	--
Malva sylvestris	Leaf	33.0	390.0	0.5604899907202987	--
Mammea americana	Fruit	0.4	24.0	-0.1044090615440342	--
Mangifera indica	Leaf	6.0	44.0	-0.946321501702505	--
Mangifera indica	Fruit	11.0	96.0	0.03476564121577664	--
Manihot esculenta	Root	14.0	150.0	0.5227136521125912	--
Manilkara zapota	Fruit	0.2	1.0	-0.14886764714786266	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Maranta arundinacea	Root		0.0	-0.4364222203358877	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Medicago sativa	Leaf	0.06	394.0	0.5779097767598688	--
Medicago sativa	Plant	28.0	149.0	0.07978827538823967	--
Medicago sativa	Flower				--
Melicoccus bijugatas	Fruit	0.2	14.0	-0.12373888137178571	--
Mentha x piperita	Leaf	35.0	238.0	-0.10146187878336067	--
Mentha spicata	Leaf	2.0	175.0	-0.37582350890658794	--
Menyanthes trifoliata	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Mimosa pudica	Leaf	65.0	930.0	2.9121611060622468	--
Mimulus glabratus	Shoot	32.0	326.0	0.7633830362035298	--
Momordica charantia	Leaf	51.0	330.0	0.299193200126749	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Momordica charantia	Pericarp				Jim Duke's personal files.
Momordica charantia	Fruit		18.0	-0.11600695344068511	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Morinda citrifolia	Fruit		5.2	-0.14074912282020693	--
Morinda citrifolia	Leaf		124.0	-0.5979257809111053	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Morinda citrifolia	Bark		8.6	-0.28393884038413764	--
Moringa oleifera	Seed		100.0	5.8216177591739955	--
Moringa oleifera	Leaf	18.0	72.0	-0.8243829994255151	--
Moringa oleifera	Shoot	45.0	215.0	0.25672153528088315	USDA's Ag Handbook 8 and sequelae)
Morus alba	Fruit	1.0	8.0	-0.1353367732684366	--
Muntingia calabura	Fruit	0.0	1.2	-0.14848105075130755	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Murraya sp	Fruit	6.0	21.0	-0.11020800749235965	--
Murraya koenigii	Leaf	60.0	225.0	-0.15807618341196314	--
Musa x paradisiaca	Hull Husk	0.6	16.6	0.29354442394364944	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Musa x paradisiaca	Fruit	6.0	21.0	-0.11020800749235965	USDA's Ag Handbook 8 and sequelae)
Myrciaria dubia	Fruit		0.0	-0.15080062913063783	--
Myrciaria cauliflora	Fruit		0.0	-0.15080062913063783	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Myrica cerifera	Bark				--
Nasturtium officinale	Herb	28.0	560.0	-1.0	--
Nelumbo nucifera	Seed	0.06	0.18	-0.41805691248749494	--
Nelumbo nucifera	Rhizome				--
Nepeta cataria	Plant	3.0	24.0	-0.5971978580241307	--
Nicotiana tabacum	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum sanctum	Leaf		25.0	-1.0290654853904624	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum tenuiflorum	Leaf		25.0	-1.0290654853904624	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ocimum basilicum	Leaf	4.0	333.0	0.31225803965642646	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Olea europaea</i>	Fruit	1.8	8.3	-0.13475687867360414	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Opuntia ficus-indica</i>	Fruit	0.08	0.09	-0.150626660752188	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>Opuntia ficus-indica</i>	Bud		0.3	-1.0	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
<i>Origanum vulgare</i>	Plant	41.0	45.0	-0.48346418761085247	USDA's Ag Handbook 8 and sequelae)
<i>Origanum majorana</i>	Plant	48.0	52.0	-0.44555296413975976	USDA's Ag Handbook 8 and sequelae)
<i>Oryza sativa</i>	Seed				--
<i>Oxalis tuberosa</i>	Root	0.0	0.2	-0.4351433725059564	--
<i>Pachira macrocarpa</i>	Seed	12.0	13.0	0.38331184418151215	--
<i>Pachyrhizus erosus</i>	Tuber				--
<i>Panax ginseng</i>	Root				--
<i>Papaver somniferum</i>	Seed				--
<i>Parthenium integrifolium</i>	Root	7.0	42.0	-0.16786417605031356	--
<i>Passiflora quadrangularis</i>	Seed	0.2	1.0	-0.36679931650710623	--
<i>Passiflora foetida</i>	Fruit		0.0	-0.15080062913063783	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Passiflora quadrangularis</i>	Fruit				--
<i>Passiflora mollissima</i>	Fruit	0.0	1.2	-0.14848105075130755	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Passiflora edulis</i>	Fruit	4.0	17.0	-0.11793993542346026	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Passiflora incarnata</i>	Flower	5.3	48.0	0.12033780868766998	--
<i>Passiflora ligularis</i>	Fruit	0.0	1.2	-0.14848105075130755	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Pastinaca sativa</i>	Root	0.2	1.0	-0.43002798118623115	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Peperomia pereskiiifolia</i>	Leaf	138.0	920.0	2.868611640963322	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Peperomia pelucida</i>	Leaf	25.0	320.0	0.255643735027824	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Pereskia aculeata</i>	Fruit	17.0	556.0	0.9239373532923459	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Perideridia gairdneri</i>	Root	2.0	5.0	-0.40445102458760507	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
<i>Perilla frutescens</i>	Seed	7.0	66.0	3.696302803889577	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Perilla frutescens</i>	Leaf	44.0	313.0	0.22515910945857653	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Persea americana</i>	Fruit	0.3	27.0	-0.09861011559570874	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Persea schiedeana</i>	Fruit	0.03	1.4	-0.14809445435475266	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Petasites japonicus</i>	Pt	0.03	0.5	-0.7935841132399388	USDA's Ag Handbook 8 and sequelae)
<i>Petroselinum crispum</i>	Plant	12.0	154.0	0.10686772072473448	--
<i>Petroselinum crispum</i>	Shoot				--
<i>Phaseolus vulgaris</i>	Sprout Seedling		0.0	-1.1430052498410248	USDA's Ag Handbook 8 and sequelae)
<i>Phaseolus vulgaris</i>	Fruit	2.2	66.0	-0.023223818267477877	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phaseolus coccineus</i>	Seed		0.1	-0.4230576535587525	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phaseolus vulgaris</i>	Seed	0.1	9.8	0.18328220133121417	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phaseolus lunatus</i>	Sprout Seedling	0.3	0.8	-0.4606140559060844	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Phaseolus coccineus</i>	Fruit		0.15	-0.15051068183322158	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Phaseolus vulgaris</i>	Leaf	32.4	245.5	-0.06879977995916696	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phaseolus lunatus</i>	Seed	0.0	9.8	0.18328220133121417	USDA's Ag Handbook 8 and sequelae)
<i>Phoenix dactylifera</i>	Fruit	1.0	3.6	-0.14384189399264724	--
<i>Phragmites australis</i>	Shoot		50.0	-0.49642393906359183	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Phyllanthus emblica</i>	Fruit	0.0	4.0	-0.1430687011995372	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phyllanthus acidus</i>	Fruit	0.0	8.0	-0.1353367732684366	--
<i>Physalis peruviana</i>	Fruit	0.14	84.0	0.011569857422474832	--
<i>Physalis ixocarpa</i>	Fruit	0.5	6.0	-0.1392027372339869	--
<i>Phytolacca americana</i>	Shoot	52.0	621.0	2.1099158539709246	--
<i>Pimenta dioica</i>	Leaf	103.0	120.0	-0.6153455669506752	--
<i>Pimenta dioica</i>	Fruit		4.0	-0.1430687011995372	--
<i>Pinus cembroides</i>	Seed	0.1	0.2	-0.41680672721968065	USDA's Ag Handbook 8 and sequelae)
<i>Pinus sylvestris</i>	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Piper betel</i>	Leaf	19.0	175.0	-0.37582350890658794	--
<i>Piper auritum</i>	Leaf	34.0	193.0	-0.297434471728523	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Piper nigrum</i>	Fruit	0.114	0.128	-0.1505532074368425	--
<i>Pistacia vera</i>	Seed	1.38	1.46	-0.33804505534737583	--
<i>Pisum sativum</i>	Seed	3.6	18.2	0.708360013813247	--
<i>Pisum sativum</i>	Fruit	0.8	8.3	-0.13475687867360414	--
<i>Plantago psyllium</i>	Hull Husk		24.0	1.0512986345888835	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Plantago major	Seed				--
Plantago psyllium	Seed	5.0	24.0	1.0709137414794123	--
Platycodon grandiflorum	Root				--
Plectranthus amboinicus	Leaf	10.0	175.0	-0.37582350890658794	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Polygonum multiflorum	Root		2.4	-0.421076046376712	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Polymnia edulis	Root	2.6	10.0	-0.3724798288393224	--
Portulaca oleracea	Herb	11.0	4650.0	1.0	--
Pourouma cecropiaefolia	Fruit		0.0	-0.15080062913063783	J Cell Biochem VOL. 22=1995
Pouteria caimito	Fruit	2.0	29.0	-0.09474415163015845	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pouteria viridis	Fruit	0.5	1.6	-0.14770785795819752	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pouteria campechiana	Fruit	2.0	29.0	-0.09474415163015845	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Prunus dulcis	Seed	0.0	0.05	-0.4261831167282885	USDA's Ag Handbook 8 and sequelae)
Prunus domestica	Fruit	1.4	43.0	-0.06768240387130633	--
Prunus armeniaca	Fruit	13.0	189.0	0.21453296561386564	--
Prunus salicifolia	Fruit	0.05	7.0	-0.13726975525121177	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Prunus cerasus	Fruit	1.0	6.0	-0.1392027372339869	--
Prunus persica	Fruit	0.0	30.0	-0.0928111696473833	--
Prunus armeniaca	Seed		0.0	-0.42930857989782434	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Psidium guajava	Fruit	0.75	46.0	-0.06188345792298089	--
Psidium cattleianum	Fruit	0.0	9.0	-0.13340379128566146	--
Psophocarpus tetragonolobus	Seed	0.78	6.0	-0.05425299955351525	--
Psophocarpus tetragonolobus	Fruit		4.0	-0.1430687011995372	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Psoralea esculenta	Root	0.0	1.0	-0.43002798118623115	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
Pteridium aquilinum	Leaf		1.0	-1.1335842016278823	--
Pyrus communis	Fruit	0.17	1.7	-0.14751455975991998	--
Quararibea cordata	Fruit	10.0	72.0	-0.011625926370826973	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Quercus alba	Bark				--
Raphanus sativus	Leaf	24.7	214.0	-0.2059805950207806	--
Raphanus sativus	Fruit	0.3	26.2	-0.10015650118192879	--
Raphanus sativus	Root	0.0	1.0	-0.43002798118623115	--
Rheum rhabarbarum	Leaf	0.3	5.0	-1.1161644155883124	--
Rheum rhabarbarum	Pt	0.6	12.0	-0.6169476493252427	--
Rhodymenia palmata	Plant				--
Ribes rubrum	Fruit	0.25	4.0	-0.1430687011995372	--
Ribes nigrum	Fruit	1.0	8.0	-0.1353367732684366	USDA's Ag Handbook 8 and sequelae)
Ribes uva-crispa	Fruit	0.6	14.0	-0.12373888137178571	--
Rosa gallica	Flower	16.0	17.0	-0.3594656728966096	--
Rosa canina	Fruit	8.0	42.0	-0.06961538585408149	--
Rosa rubiginosa	Plant				--
Rosmarinus officinalis	Plant	19.0	21.0	-0.6134455252260276	--
Rosmarinus officinalis	Leaf	15.0	55.0	-0.8984170900936875	USDA's Ag Handbook 8 and sequelae)
Rubus idaeus	Leaf	19.0	114.0	-0.6414752460100303	--
Rubus idaeus	Fruit	0.06	7.0	-0.13726975525121177	--
Rumex acetosa	Leaf	77.0	1100.0	3.652502012743971	--
Rumex crispus	Root	58.0	225.0	1.0022815883368308	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rumex crispus	Leaf	10.38	140.0	-0.5282466367528253	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ruscus aculeatus	Root	4.0	13.0	-0.35329711139035286	--
Salix alba	Bark				--
Salvia officinalis	Leaf	6.0	39.0	-0.9680962342519674	--
Sambucus canadensis	Fruit	4.0	18.0	-0.11600695344068511	USDA's Ag Handbook 8 and sequelae)
Sambucus nigra	Leaf		150.0	-0.48469717165390036	--
Sambucus nigra	Fruit	100.0	150.0	0.13914666828563477	--
Satureja hortensis	Plant		34.0	-0.5430389673511411	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Schisandra chinensis	Fruit	9.0	61.0	-0.03288872818135363	--
Scutellaria lateriflora	Plant	2.6	19.0	-0.6242773033606255	--
Sechium edule	Shoot	12.0	164.0	0.02393111593804544	--
Senna alexandrina	Leaf	48.0	235.0	-0.11452671831303816	--
Serenoa repens	Fruit	3.0	24.0	-0.1044090615440342	--
Sesamum indicum	Seed				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Sicana odorifera	Fruit	1.0	8.0	-0.1353367732684366	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Sida rhombifolia	Leaf	60.0	305.0	0.19031953737943658	--
Silybum marianum	Leaf	7.0	31.0	-1.0029358063311073	--
Silybum marianum	Plant		31.0	-0.559286634553038	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Sinapis alba	Seed				--
Smilax officinalis	Root	8.0	36.0	-0.20622961094825273	--
Smilax spp	Root	8.0	36.0	-0.20622961094825273	--
Solanum sessiliflorum	Fruit	1.4	14.0	-0.12373888137178571	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Solanum quitoensis	Fruit	1.0	16.0	-0.1198729174062354	--
Solanum tuberosum	Tuber		0.01	-0.7053368039142849	--
Solanum melongena	Fruit	0.0	6.0	-0.1392027372339869	--
Solanum torvum	Fruit	4.0	27.0	-0.09861011559570874	--
Solanum nigrum	Leaf	1.0	110.0	-0.6588950320496002	--
Sonchus oleraceus	Leaf	14.0	545.0	1.2355066997536357	--
Sorbus aucubaria	Plant	62.0	98.0	-0.19642206704400744	--
Spinacia oleracea	Plant	4.0	690.0	3.0097842607969785	--
Spinacia oleracea	Leaf		32.5	-0.9964033865662687	--
Spirulina spp.	Plant		480.0	1.872447556664196	--
Spirulina pratensis	Plant		478.0	1.8616157785295981	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Spondias pinnata	Fruit	2.0	28.0	-0.0966771336129336	--
Spondias mombin	Fruit	1.0	115.0	0.0714922988885045	--
Spondias dulcis	Fruit	2.0	16.0	-0.1198729174062354	--
Spondias purpurea	Fruit	0.6	9.0	-0.13340379128566146	--
Stachys officinalis	Plant				--
Stellaria media	Plant	4.0	43.0	-0.4942959657454504	--
Stevia rebaudiana	Leaf		75.0	-0.8113181598958376	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Symphytum officinale	Leaf	12.0	108.0	-0.6676049250693852	--
Symphytum officinale	Root		660.0	3.7837756184374194	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Syzygium malaccense	Fruit	0.0	0.08	-0.15064599057201572	--
Syzygium aromaticum	Bark	2.0	3.0	-0.6464926691482484	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Syzygium jambos	Fruit	1.4	8.5	-0.13437028227704903	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Syzygium cumini</i>	Fruit	0.0	3.0	-0.14500168318231235	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tabebuia heptaphylla</i>	Bark	0.8	4.3	-0.5623283874708657	--
<i>Tagetes erecta</i>	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Tamarindus indica</i>	Flower		10.0	-0.4678083945446727	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tamarindus indica</i>	Leaf	2.0	110.0	-0.6588950320496002	--
<i>Tamarindus indica</i>	Fruit	0.0	1.0	-0.14886764714786266	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tanacetum parthenium</i>	Plant		14.0	-0.6513567486971203	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Taraxacum officinale</i>	Root	12.0	84.0	0.10069386823526054	--
<i>Taraxacum officinale</i>	Flower				--
<i>Taraxacum officinale</i>	Leaf	40.0	583.0	1.4009946671295506	--
<i>Taxus baccata</i>	Fruit				--
<i>Tecoma stans</i>	Flower				--
<i>Terminalia catappa</i>	Fruit		1.8	-0.14732126156164263	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>Terminalia catappa</i>	Seed		0.0	-0.42930857989782434	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tetragonia tetragonioides</i>	Leaf	26.4	440.0	0.7782373162149235	--
<i>Theobroma cacao</i>	Plant				--
<i>Theobroma bicolor</i>	Seed		0.0	-0.42930857989782434	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Theobroma bicolor</i>	Fruit	1.9	9.0	-0.13340379128566146	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Thymus vulgaris</i>	Plant	24.0	25.0	-0.5917819689568318	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus vulgaris	Leaf	4.0	25.0	-1.0290654853904624	--
Tragopogon porrifolius	Root	0.0	0.268	-0.43470856424377974	--
Trichosanthes anguina	Fruit	1.0	18.0	-0.11600695344068511	--
Trifolium pratense	Flower	2.0	12.0	-0.43685333121665465	--
Trigonella foenum-graecum	Seed		0.2	-0.41680672721968065	--
Trigonella foenum-graecum	Leaf	23.0	278.0	0.07273598161233917	--
Triticum aestivum	Seed	0.0	0.22	-0.4155565419518663	--
Tropaeolum tuberosum	Root	0.3	2.1	-0.422994318121609	--
Tropaeolum majus	Shoot	90.0	665.0	2.310754647129451	--
Turnera diffusa	Leaf	15.0	71.0	-0.8287379459354075	--
Ulex europaeus	Plant	75.0	253.0	0.6430407383873318	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Ullucus tuberosus	Root	0.0	0.7	-0.4319462529311282	--
Ulmus rubra	Bark	4.0	25.0	0.7778259438536158	--
Urtica dioica	Seed	10.0	25.0	1.1334230048701306	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.
Urtica dioica	Leaf	19.0	94.0	-0.7285741762078801	--
Vaccinium macrocarpon	Fruit	0.2	2.6	-0.14577487597542238	--
Vaccinium vitis-idaea	Plant				--
Vaccinium corymbosum	Fruit	0.6	3.9	-0.14326199939781478	--
Vaccinium myrtillus	Fruit	4.0	47.0	-0.059950475940205736	--
Valeriana officinalis	Plant				--
Valeriana officinalis	Root				--
Verbascum thapsus	Leaf	19.0	43.0	-0.9506764482123975	--
Verbena officinalis	Leaf				--
Viburnum opulus	Fruit		6400.0	12.220284060630327	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Vicia faba	Seed	2.1	11.0	0.2582933174000758	USDA's Ag Handbook 8 and sequelae)
Vicia faba	Fruit	0.1	0.6	-0.1496408399409727	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vigna unguiculata	Shoot	0.7	6.9	-0.6931546659984213	--
Vigna unguiculata	Seed		0.3	-0.41055580088060895	USDA's Ag Handbook 8 and sequelae)
Vigna radiata	Sprout Seedling	0.1	1.4	0.05117933954512095	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Seed	0.3	21.9	0.939644288358904	USDA's Ag Handbook 8 and sequelae)
Vigna angularis	Seed	0.1	0.9	-0.37305024284617794	--
Vigna unguiculata	Fruit	1.5	72.0	-0.011625926370826973	USDA's Ag Handbook 8 and sequelae)
Vigna radiata	Seed	0.9	1.2	-0.35429746382896243	USDA's Ag Handbook 8 and sequelae)
Vigna aconitifolia	Seed		0.2	-0.41680672721968065	--
Vigna subterranea	Seed	0.0	0.11	-0.42243256092484527	--
Vigna unguiculata	Shoot	0.7	6.9	-0.6931546659984213	USDA's Ag Handbook 8 and sequelae)
Vigna mungo	Seed	0.2	0.5	-0.39805394820246537	--
Viscum album	Leaf				--
Vitis vinifera	Stem		43.0	-0.5551411085990826	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Vitis vinifera	Fruit	0.5	2.1	-0.14674136696680995	--
Xanthosoma sagittifolium	Root	0.0	0.6	-0.4325856768460938	--
Xanthosoma sagittifolium	Leaf	33.0	327.0	0.2861283605970715	--
Yucca baccata	Root				--
Zea mays	Seed	0.5	2.5	-0.27303542142102893	--
Zea mays	Silk Stigma Style		0.0		--
Zingiber officinale	Rhizome	0.0	4.0	-0.6667259338283312	--
Zingiber officinale	Root	0.1	1.0	-0.43002798118623115	--
Zizyphus jujuba	Fruit	0.2	700.0	1.2022867588119677	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zizyphus spina-christi	Fruit				--