

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for CALCIUM

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus esculentus	Seed	2100.0	2820.0	-0.24360731908228206	--
Abelmoschus esculentus	Fruit	810.0	8100.0	0.9792809325023206	USDA's Ag Handbook 8 and sequelae)
Abelmoschus manihot	Leaf	724.0	6241.0	-0.8333363062019936	--
Abrus precatorius	Leaf	1266.0	2660.0	-1.0780176043339036	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia tortilis	Fruit		7900.0	0.9331288578526725	--
Acacia farnesiana	Seed	3900.0	5500.0	0.24859598148301348	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia tortilis	Seed		5600.0	0.266961776280226	--
Acacia senegal	Leaf		7500.0	-0.747311800659387	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia farnesiana	Leaf	930.0	5003.0	-0.917925931191467	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Acacia tortilis	Leaf		22700.0	0.29126840922752445	--
Acacia nilotica	Plant				--
Acacia catechu	Leaf		27400.0	0.6124083425478194	--
Acalypha indica	Leaf	6670.0	34205.0	1.0773779694083743	Wealth of India.
Acanthopanax gracilistylis	Root Bark		12600.0	-0.5524868353374881	--
Achillea millefolium	Plant	1535.0	8670.0	-0.5262108144941796	--
Achyranthes bidentata	Root	1130.0	52200.0	4.906101246807924	--
Aconitum carmichaelii	Tuber		2550.0	-0.3913732265154976	--
Acorus calamus	Rhizome		7040.0	0.024896656626718316	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Acrocomia totai	Seed		800.0	-0.6145963739859751	--
Acrocomia totai	Fruit		900.0	-0.6821937548850106	--
Actaea racemosa	Root		5970.0	-0.15691792968206164	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Actaea dahurica	Rhizome		9750.0	0.6148898811224651	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Actinidia chinensis	Fruit	160.0	1910.0	-0.4491257779042877	--
Aegle marmelos	Fruit	850.0	2205.0	-0.3810514677960568	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Aframomum melegueta	Fruit	750.0	9500.0	1.3023454550498572	--
Agathosma betulina	Leaf		38800.0	1.391343499963003	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Akebia quinata	Stem		19000.0	0.027648809517745246	--
Albizia julibrissin	Bark		35500.0	1.60841282693287	--
Albizia lebbek	Seed		1720.0	-0.44563106185161994	Wealth of India.
Albizia lebbek	Leaf	10100.0	104000.0	5.846305979214756	Wealth of India.
Aleurites moluccana	Seed	800.0	860.0	-0.6035768971076476	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Alisma plantago-aquatica	Rhizome	1630.0	3430.0	-0.7610352771111585	--
Allium sativum var. sativum	Leaf	580.0	4265.0	-0.9683517334872921	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium cepa	Leaf	420.0	5385.0	-0.8918247706535197	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium ampeloprasum	Leaf	520.0	5472.0	-0.8858802655048249	--
Allium schoenoprasum	Leaf	690.0	11140.0	-0.4985991714496266	--
Allium sativum var. sativum	Flower	250.0	2155.0	-1.0002454452549991	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium cepa	Bulb	200.0	3008.0	0.11970003608893207	--
Allium ampeloprasum	Flower	230.0	1361.0	-1.2199068284592132	--
Allium sativum var. sativum	Shoot	120.0	538.0	-1.0364734470880839	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Allium sativum var. sativum	Bulb	130.0	4947.0	1.1604999014541306	--
Allium ampeloprasum	Root	520.0	3796.0	-0.39501015744951196	--
Allium sativum var. sativum	Root	315.0	850.0	-0.7176503152245389	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Alocasia macrorrhiza</i>	Leaf	570.0	15700.0	-0.18702510848355317	--
<i>Alocasia macrorrhiza</i>	Root	281.0	1875.0	-0.6053943200719922	--
<i>Aloe vera</i>	Leaf	190.0	4600.0	-0.9454619722825477	--
<i>Aloe spp.</i>	Leaf	23.0	4600.0	-0.9454619722825477	--
<i>Alpinia galanga</i>	Rhizome	310.0	2199.0	-1.029035889419005	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Althaea officinalis</i>	Root	881.0	8160.0	0.08292658679020891	--
<i>Amaranthus spinosus</i>	Leaf	4760.0	53335.0	2.3844858256673627	--
<i>Amaranthus sp.</i>	Leaf	1559.0	53333.0	2.384349170376588	--
<i>Amomum xanthioides</i>	Seed		5090.0	0.17329622281444215	--
<i>Amorphophallus konjac</i>	Leaf	170.0	6538.0	-0.8130429955219665	--
<i>Amorphophallus campanulatus</i>	Shoot		15200.0	0.03353128521102296	--
<i>Amorphophallus konjac</i>	Root		234.0	-0.7851134303601183	--
<i>Amorphophallus campanulatus</i>	Root	260.0	5720.0	-0.1842974406948779	--
<i>Amphicarpaea bracteata</i>	Shoot		17300.0	0.1867852708765614	--
<i>Anacardium occidentale</i>	Seed	240.0	823.0	-0.6103722411826162	--
<i>Anacardium occidentale</i>	Fruit	100.0	833.0	-0.6976546998926427	--
<i>Ananas comosus</i>	Fruit	62.0	1308.0	-0.5880435225997285	--
<i>Anemarrhena asphodeloides</i>	Rhizome	10900.0	11600.0	1.01765278345351	--
<i>Anethum graveolens</i>	Seed	14003.0	17671.0	2.483896866251749	--
<i>Anethum graveolens</i>	Plant	1900.0	21453.0	0.8411434580787619	--
<i>Anethum graveolens</i>	Fruit	14003.0	17671.0	3.1878884648612305	--
<i>Angelica dahurica</i>	Root		2140.0	-0.576372038398407	--
<i>Angelica sinensis</i>	Root	620.0	2820.0	-0.5018997684435467	--
<i>Angelica laxiflora</i>	Root		3800.0	-0.3945720852733069	--
<i>Annona cherimola</i>	Fruit	78.0	1455.0	-0.5541217477322371	--
<i>Annona reticulata</i>	Fruit	176.0	1270.0	-0.5968124167831617	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Annona glabra	Fruit	520.0	3940.0	0.01931777978964036	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Annona squamosa	Leaf		21200.0	0.18877694114657925	--
Annona muricata	Fruit	140.0	2600.0	-0.2899011203630018	--
Annona diversifolia	Fruit	315.0	1110.0	-0.63373407650288	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Annona squamosa	Fruit	216.0	1335.0	-0.581812992522026	--
Annona cherimola	Seed	860.0	1110.0	-0.5576624101146164	--
Anogeissus latifolia	Leaf		30300.0	0.8105585141709801	--
Anthriscus cerefolium	Leaf	13460.0	14509.0	-0.26840333413982365	--
Apium graveolens	Root	340.0	3635.0	-0.4126425625417656	ACTA AGRIC SCAND SUPPL 22: 1980
Apium graveolens	Fruit	1680.0	8000.0	0.9562048951774965	--
Apium graveolens	Pt	313.0	11918.0	-1.4133911092017	--
Apium graveolens	Seed	170.0	20776.0	3.054154794705198	--
Arachis hypogaea	Plant	9300.0	31500.0	1.9158370649425922	--
Arachis hypogaea	Leaf	2620.0	21500.0	0.2092752347627683	--
Arachis hypogaea	Seed	560.0	969.0	-0.5835581807786859	--
Aralia cordata	Leaf	130.0	2765.0	-1.0708432015682374	--
Arctium lappa	Root	1723.0	7330.0	-0.00797338977234112	--
Arctostaphylos uva-ursi	Leaf	1264.0	10900.0	-0.5149978063425779	--
Areca catechu	Sprout Seedling		60.0	-0.6578060727234551	--
Areca catechu	Seed	500.0	1050.0	-0.5686818869929439	--
Arisaema consanguineum	Rhizome		1550.0	-1.1703294697502744	--
Aristolochia debilis	Fruit		1740.0	-0.4883550413564886	--
Armoracia rusticana	Root	1800.0	10000.0	0.28443978784453666	--
Arracacia xanthorrhiza	Root	190.0	655.0	-0.7390063338145356	--
Artemisia vulgaris	Shoot		8600.0	-0.4481240983092407	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Artemisia dracunculus</i>	Plant	11390.0	12340.0	-0.1336433279618558	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Artemisia vulgaris</i>	Plant	8000.0	11000.0	-0.2769785955240667	Chem. & Pharm. Bull. 38: 2205.
<i>Artemisia capillaris</i>	Plant		15200.0	0.17228119832763905	--
<i>Artemisia vulgaris</i>	Leaf	820.0	6455.0	-0.8187141900891122	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Artocarpus heterophyllus</i>	Fruit	200.0	1735.0	-0.4895088432227298	--
<i>Artocarpus altilis</i>	Seed	110.0	825.0	-0.610004925286672	--
<i>Artocarpus heterophyllus</i>	Seed	500.0	1033.0	-0.57180407210847	--
<i>Artocarpus altilis</i>	Fruit	170.0	1950.0	-0.4398953629743581	--
<i>Arundo donax</i>	Plant		4900.0	-0.9294749627848772	--
<i>Asiasarum heterotropoides</i>	Root	7450.0	12900.0	0.6020421155932054	--
<i>Asiasarum sieboldii</i>	Root	7450.0	12900.0	0.6020421155932054	--
<i>Asimina triloba</i>	Fruit	530.0	3248.0	-0.14036839849814203	--
<i>Aspalathus linearis</i>	Plant		90.0	-1.443984393362664	--
<i>Aspalathus linearis</i>	Leaf				--
<i>Aspalathus linearis</i>	Shoot		2000.0	-0.9297794818295042	--
<i>Asparagus lucidus</i>	Root		1810.0	-0.6125129929353245	--
<i>Asparagus officinalis</i>	Shoot	160.0	3840.0	-0.7954997991511278	--
<i>Asparagus officinalis</i>	Root	265.0	2650.0	-0.5205178359322618	--
<i>Astragalus membranaceus</i>	Root	560.0	3500.0	-0.42742749848868644	--
<i>Atractylodes lancea</i>	Rhizome		11300.0	0.9523398803728	--
<i>Atractylodes ovata</i>	Rhizome	5800.0	11600.0	1.01765278345351	--
<i>Avena sativa</i>	Seed	400.0	4800.0	0.12003541790252584	--
<i>Avena sativa</i>	Plant	3146.0	14300.0	0.07601124250227355	--
<i>Averrhoa carambola</i>	Fruit	29.0	1040.0	-0.649887302630257	--
<i>Averrhoa bilimbi</i>	Fruit	30.0	665.0	-0.7364224425983471	--
<i>Azadirachta indica</i>	Leaf	16700.0	26500.0	0.5509134616992524	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Azadirachta indica</i>	Fruit	1381.0	3400.0	-0.10529282176440947	--
<i>Bacopa monnieri</i>	Shoot		2020.0	-0.928319920061261	Wealth of India.
<i>Bactris gasipaes</i>	Fruit	89.0	5820.0	0.4531472814963324	--
<i>Balanites aegyptiacus</i>	Shoot		4800.0	-0.7254408342754531	--
<i>Balanites aegyptiacus</i>	Fruit	1300.0	3800.0	-0.0129886724651133	--
<i>Barosma betulina</i>	Leaf		38800.0	1.391343499963003	--
<i>Basella alba</i>	Leaf	1090.0	15800.0	-0.18019234394482347	--
<i>Belamcanda chinensis</i>	Rhizome		6170.0	-0.16451076230734063	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), <i>Kaohsiung J. Med. Sci.</i> , 4: 259-272.
<i>Benincasa hispida</i>	Fruit	170.0	4870.0	0.23392492691050396	--
<i>Berberis vulgaris</i>	Bark		19100.0	0.04088065432927098	--
<i>Berberis vulgaris</i>	Root		19100.0	1.281053988711049	Pedersen, M. 1987. <i>Nutritional Herbology</i> . Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Bertholletia excelsa</i>	Seed	1300.0	1820.0	-0.4272652670544074	--
<i>Beta vulgaris</i>	Leaf	700.0	17368.0	-0.0730545959775421	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Beta vulgaris</i>	Root	120.0	4200.0	-0.35076486765280085	--
<i>Bixa orellana</i>	Seed	970.0	1640.0	-0.46032369768938997	--
<i>Bixa orellana</i>	Fruit	70.0	450.0	-0.7860359228467187	--
<i>Blechnum orientale</i>	Rhizome		8280.0	0.29485665602698624	--
<i>Bletilla striata</i>	Tuber		4400.0	0.15397485461957927	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), <i>Kaohsiung J. Med. Sci.</i> , 4: 259-272.
<i>Blighia sapida</i>	Aril	400.0	1950.0	0.32563789816201644	--
<i>Blighia sapida</i>	Seed	200.0	1300.0	-0.5227673999999125	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Boehmeria nivea</i>	Shoot	4500.0	46000.0	2.2812564083055866	--
<i>Boehmeria nivea</i>	Plant	36000.0	39000.0	2.718086696820638	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Borago officinalis</i>	Leaf	930.0	5005.0	-0.9177892759006925	USDA's Ag Handbook 8 and sequelae)
<i>Brassica oleracea</i> var. <i>viridis</i> l.	Leaf	1170.0	19180.0	0.050755097464239715	--
<i>Brassica pekinensis</i>	Leaf	11780.0	16800.0	-0.11186469855752668	--
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Leaf	360.0	54247.0	2.4468006382605774	--
<i>Brassica juncea</i>	Leaf	512.0	5565.0	-0.8795257944838063	--
<i>Brassica oleracea</i> var. <i>italica</i>	Leaf	360.0	54247.0	2.4468006382605774	--
<i>Brassica rapa</i>	Leaf	1050.0	22440.0	0.2735032214268273	USDA's Ag Handbook 8 and sequelae)
<i>Brassica oleracea</i> var. <i>botrytis</i> l.	Flower	210.0	4040.0	-0.4787571488570857	--
<i>Brassica oleracea</i> var. <i>capitata</i> l.	Leaf	290.0	19500.0	0.07261994398817469	--
<i>Brassica oleracea</i>	Stem	200.0	2665.0	-1.743501400177818	--
<i>Brassica nigra</i>	Leaf	1107.0	17867.0	-0.03895910092928099	USDA's Ag Handbook 8 and sequelae)
<i>Brassica chinensis</i>	Leaf	1050.0	22440.0	0.2735032214268273	--
<i>Brassica oleracea</i> var. <i>sabellica</i> l.	Leaf	1200.0	7725.0	-0.7319380804472452	--
<i>Brassica rapa</i>	Root	300.0	3690.0	-0.40661907011894605	--
<i>Brassica oleracea</i> var. <i>gemmifera</i>	Leaf	395.0	3177.0	-1.042692211668671	USDA's Ag Handbook 8 and sequelae)
<i>Brassica napus</i> var. <i>napobrassica</i>	Root	270.0	6040.0	-0.14925166659847308	--
<i>Bromelia pinguin</i>	Shoot	1070.0	15800.0	0.07731813825831965	--
<i>Brosimum alicastrum</i>	Fruit	450.0	2812.0	-0.24097992123437484	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Broussonetia papyrifera</i>	Fruit		26900.0	5.317575949569242	--
<i>Bupleurum chinense</i>	Root	2200.0	20000.0	1.3796202283571877	--
<i>Byrsonima crassifolia</i>	Fruit	230.0	1920.0	-0.4468181741718053	--
<i>Cajanus cajan</i>	Plant		8900.0	-0.5016084924499196	--
<i>Cajanus cajan</i>	Fruit	350.0	2022.0	-0.4232806161004848	--
<i>Cajanus cajan</i>	Seed	290.0	1540.0	-0.4786894924866025	--
<i>Calathea macrosepala</i>	Plant	200.0	2600.0	-1.175498183227478	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Calendula officinalis	Leaf		30400.0	0.8173912787097098	--
Camellia sinensis	Leaf	327.0	2456.0	-1.0919564439929121	--
Canavalia ensiformis	Seed	960.0	3090.0	-0.19401967312980825	--
Canavalia ensiformis	Fruit	330.0	5263.0	0.32461375359706246	--
Canna indica	Root	150.0	1300.0	-0.6683671954014696	--
Cannabis sativa	Seed	1200.0	1389.0	-0.5064218426303934	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Capparis spinosa	Leaf		5500.0	-0.8839670914339806	Wealth of India.
Capsella bursa-pastoris	Plant	2080.0	17627.0	0.4318891792033747	--
Capsicum frutescens	Fruit	175.0	1560.0	-0.5298919085411719	--
Capsicum annuum	Fruit	431.0	1670.0	-0.5045082674838655	--
Carica papaya	Leaf	3440.0	23800.0	0.36642881915355097	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Carica pentagona	Fruit	110.0	1615.0	-0.5172000880125186	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Carica papaya	Fruit	159.0	1180.0	-0.6175808503755033	--
Carthamus tinctorius	Plant		17000.0	0.3648211099783701	--
Carthamus tinctorius	Flower	620.0	4430.0	-0.3708630185678622	--
Carthamus tinctorius	Seed	1260.0	1324.0	-0.5183596092485815	--
Carum carvi	Fruit	6426.0	8160.0	0.993126554897215	--
Carum carvi	Seed	1530.0	8160.0	0.7371261230888665	--
Carya ovata	Shoot	5250.0	33300.0	1.35443468547114	--
Carya glabra	Shoot	3800.0	40700.0	1.8944725397211326	--
Carya ovata	Seed		1095.0	-0.5604172793341982	--
Carya illinoensis	Seed	618.0	763.0	-0.6213917180609437	--
Casimiroa edulis	Fruit	80.0	455.0	-0.7848821209804776	--
Cassia tora	Sprout Seedling		28100.0	2.6148841826288662	--
Cassia tora	Seed		11700.0	1.3872752589101898	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Castanea dentata	Seed	240.0	427.0	-0.6831007885795778	--
Castanea sativa	Seed	220.0	528.0	-0.6645513358343932	--
Castanea mollissima	Seed	160.0	356.0	-0.6961405028855987	--
Catalpa ovata	Fruit		2890.0	-0.22298061212101208	--
Catha edulis	Leaf		2900.0	-1.0616189694409524	--
Caulophyllum thalictroides	Root	428.0	3890.0	-0.38471546130869305	--
Ceiba pentandra	Seed	2300.0	4700.0	0.10166962310531331	--
Celosia cristata	Flower		8910.0	0.8685362216775767	--
Cenchrus biflorus	Seed	1440.0	1595.0	-0.4685883053481356	--
Centella asiatica	Leaf	1700.0	15890.0	-0.17404285585996676	--
Chaenomeles lagenaria	Fruit		2300.0	-0.35912923233747396	--
Chamaemelum nobile	Flower		6720.0	0.262669182361168	--
Chamissoa altissima	Leaf	80.0	825.0	-1.203398833619593	Tramil
Chenopodium album	Seed		3000.0	-0.21054888844729952	--
Chenopodium album	Leaf	3090.0	33800.0	1.049705273026519	--
Chenopodium ambrosioides	Leaf	3000.0	21000.0	0.1751114120691199	--
Chondrus crispus	Plant		18820.0	0.5595003539807759	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Chrysanthemum parthenium	Plant		5810.0	-0.8321353407836742	--
Chrysanthemum cinerariifolium	Shoot		5300.0	-0.6889517900693726	--
Chrysanthemum coronarium	Leaf	630.0	9690.0	-0.5976742572612069	--
Chrysanthemum coronarium	Bud	560.0	7525.0	1.0	--
Chrysanthemum parthenium	Leaf	1046.0	5810.0	-0.8627855213639186	--
Chrysobalanus icaco	Fruit	290.0	2775.0	-0.24951805504455976	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Chrysophyllum cainito	Fruit	75.0	1220.0	-0.6083504354455737	--
Cicer arietinum	Seed	1020.0	1220.0	-0.5374600358376825	USDA's Ag Handbook 8 and sequelae)
Cichorium intybus	Leaf	790.0	19900.0	0.09995100214309341	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cichorium endivia	Leaf	462.0	10080.0	-0.5710264755601612	--
Cichorium intybus	Root	410.0	2050.0	-0.5862286623630208	--
Cimicifuga racemosa	Root	1254.0	5970.0	-0.15691792968206164	--
Cimicifuga dahurica	Rhizome		9750.0	0.6148898811224651	--
Cinnamomum sieboldii	Bark		14000.0	-0.44658361885843356	--
Cinnamomum verum	Bark	3415.0	6000.0	-1.211233459152872	--
Cinnamomum burmannii	Bark		17000.0	-0.1598399287480191	--
Cinnamomum sieboldii	Root Bark		9000.0	-0.792119679580254	--
Cinnamomum aromaticum	Bark	4900.0	13569.0	-0.48777912900429643	--
Cistanche salsa	Plant		1730.0	-1.2685591405253311	--
Citrullus lanatus	Seed	1294.0	1300.0	-0.5227673999999125	--
Citrullus lanatus	Fruit	100.0	3400.0	-0.10529282176440947	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Citrus aurantiifolia	Fruit	90.0	3084.0	-0.17821309971085345	--
Citrus aurantium	Fruit	18.0	4230.0	0.08623828803163008	--
Citrus paradisi	Fruit	117.0	11000.0	1.6484860149222178	--
Citrus medica	Fruit		6840.0	0.6885228622095376	--
Citrus sinensis	Fruit	210.0	5615.0	0.4058414049804431	--
Citrus limon	Fruit	700.0	3227.0	-0.14521436633635507	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Citrus mitis	Fruit	1400.0	14000.0	2.34076713466694	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Citrus reticulata	Fruit	140.0	3077.0	-0.17982842232359114	--
Cnicus benedictus	Plant	1490.0	11200.0	-0.2555852720073188	--
Cnidium officinale	Rhizome		1710.0	-1.1354959214405624	--
Cnidioscolus chayamansa	Leaf	2260.0	21050.0	0.17852779433848473	--
Coccinia grandis	Fruit	400.0	5600.0	0.4023799993817195	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Cocos nucifera</i>	Seed	71.0	476.0	-0.6741015491289437	--
<i>Coffea arabica</i>	Seed	1200.0	1281.0	-0.5262569010113829	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Coffea arabica</i>	Leaf	19000.0	20406.0	0.1345247907090656	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Coix lacryma-jobi</i>	Seed	50.0	282.0	-0.709731191035536	--
<i>Cola acuminata</i>	Seed	580.0	1563.0	-0.4744653596832436	--
<i>Colocasia esculenta</i>	Leaf	260.0	17400.0	-0.0708681113251486	--
<i>Colocasia esculenta</i>	Root	130.0	3780.0	-0.3967624461543322	--
<i>Colubrina texensis</i>	Shoot		32900.0	1.3252434501062755	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Commelina benghalensis</i>	Leaf	2100.0	15215.0	-0.2201640164963921	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Commiphora wightii</i>	Inflorescence				Jim Duke's personal files.
<i>Coptis japonica</i>	Rhizome	1620.0	3410.0	-0.7653894706498725	--
<i>Coptis chinensis</i>	Rhizome	1620.0	3410.0	-0.7653894706498725	--
<i>Coptis spp</i>	Rhizome	1620.0	3410.0	-0.7653894706498725	--
<i>Corchorus olitorius</i>	Leaf	2080.0	18365.0	-0.004931933526407184	--
<i>Coriandrum sativum</i>	Leaf	1330.0	13441.0	-0.34137725941345665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Coriandrum sativum</i>	Seed	6465.0	14469.0	1.8958241168450043	--
<i>Cornus officinalis</i>	Fruit		3250.0	-0.13990687775164554	--
<i>Cornus florida</i>	Plant				--
<i>Corylus avellana</i>	Seed	1300.0	2591.0	-0.2856649891678989	--
<i>Crataegus rhipidophylla</i>	Fruit		5570.0	0.3954571881842723	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Crataegus laevigata</i>	Fruit	1554.0	5570.0	0.3954571881842723	--
<i>Crataegus cuneata</i>	Fruit		3770.0	-0.019911483662560514	--
<i>Crescentia alata</i>	Seed	500.0	518.0	-0.6663879153141145	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cucumis sativus	Fruit	129.0	10000.0	1.4177256416739774	--
Cucumis melo	Fruit	96.0	3080.0	-0.1791361412038464	--
Cucurbita pepo	Fruit	210.0	2500.0	-0.31297715768782586	USDA's Ag Handbook 8 and sequelae)
Cucurbita spp	Fruit	200.0	3165.0	-0.159521509477746	--
Cucurbita pepo	Flower	390.0	8041.0	0.6281259672638968	USDA's Ag Handbook 8 and sequelae)
Cucurbita pepo	Seed	240.0	2960.0	-0.21789520636618454	--
Cucurbita maxima	Leaf	364.0	2580.0	-1.0834838159648872	--
Cucurbita foetidissima	Leaf		77600.0	4.04245614099012	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cuminum cyminum	Fruit	9310.0	15511.0	2.6894460586450313	--
Cuminum cyminum	Seed	9310.0	15511.0	2.087195698631959	--
Curcuma longa	Plant	226.0	730.0	-1.3755257581090707	--
Curcuma longa	Rhizome	270.0	2898.0	-0.8768568252409509	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyamopsis tetragonoloba	Shoot	7430.0	19800.0	0.3692304919069643	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyamopsis tetragonoloba	Leaf		24200.0	0.3937598773084697	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyamopsis tetragonoloba	Fruit		1300.0	-0.5898896055857143	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyclanthera pedata	Fruit	130.0	3160.0	-0.1606753113439872	--
Cydonia oblonga	Fruit	60.0	805.0	-0.7041159903435934	--
Cymbopogon citratus	Plant		3680.0	-1.0599742362370392	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Cynanchum atratum	Root		9900.0	0.27348798343941016	--
Cynara cardunculus	Flower	120.0	5286.0	-0.13404923516382297	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cyperus rotundus	Rhizome		3180.0	-0.8154626963450835	--
Cyphomandra betacea	Fruit	39.0	5780.0	0.4439168665664028	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cypridium pubescens	Root		16800.0	1.0291624873931393	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Cyrtosperma chamissonis	Root	1450.0	10630.0	0.35343615559683367	--
Daucus carota	Root	210.0	5710.0	-0.18539262113539057	--
Dendrobium nobile	Stem		6530.0	-1.3244321892519928	--
Dioscorea pentaphylla	Root	260.0	1400.0	-0.6574153909963432	--
Dioscorea bulbifera	Rhizome	690.0	2379.0	-0.9898481475705792	--
Dioscorea sp.	Root		3060.0	-0.47561543787124305	--
Dioscorea alata	Root	44.0	290.0	-0.7789804198932474	--
Dioscorea villosa	Root	734.0	3060.0	-0.47561543787124305	--
Diospyros virginiana	Fruit	270.0	758.0	-0.7149617278862607	--
Diospyros digyna	Fruit	220.0	1070.0	-0.6429644914328096	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Diospyros virginiana	Stem	2640.0	17820.0	-0.10029470119182099	--
Diospyros virginiana	Leaf	1150.0	12500.0	-0.40567357372290297	--
Dipsacus fullonum	Plant		20900.0	0.781990918554954	--
Drynaria fortunei	Rhizome		16000.0	1.9755753619705902	--
Durio zibethinus	Fruit	76.0	600.0	-0.7514218668594826	--
Echinacea purpurea	Root	826.0	3290.0	-0.4504262877394521	--
Echinacea spp	Root	3290.0	7760.0	0.03911936916970287	Economic & Medicinal Plant Research, 5: 253.
Elaeagnus umbellatus	Fruit	196.0	1070.0	-0.6429644914328096	--
Elaeagnus commutata	Fruit	70.0	507.0	-0.7728825815715691	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elaeis guineensis	Fruit	820.0	1360.0	-0.57604398319082	--
Eleocharis dulcis	Tuber	40.0	265.0	-1.0649518024039575	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elettaria cardamomum	Seed	3830.0	4177.0	0.005616516315891836	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Elettaria cardamomum</i>	Fruit	1300.0	1625.0	-0.5148924842800362	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eleutherococcus senticosus</i>	Root	840.0	4000.0	-0.3726684764630539	--
<i>Elytrigia repens</i>	Plant	3000.0	9280.0	-0.46096117776809853	--
<i>Ephedra sinica</i>	Plant	922.0	4390.0	-0.9840279377525842	--
<i>Ephedra nevadensis</i>	Plant	4500.0	58100.0	4.761149092670062	--
<i>Ephedra</i> spp	Plant		11500.0	-0.22349528673219693	--
<i>Equisetum hyemale</i>	Plant		15500.0	0.2043711836027609	--
<i>Equisetum arvense</i>	Plant	4045.0	18900.0	0.5680576833874751	--
<i>Eriobotrya japonica</i>	Leaf		21900.0	0.23660629291768703	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<i>Eriobotrya japonica</i>	Fruit	180.0	2381.0	-0.3404376421043665	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eriocaulon</i> sp	Leaf		2070.0	-1.1183309151124086	--
<i>Eriodictyon californicum</i>	Leaf	638.0	2900.0	-1.0616189694409524	--
<i>Eryngium floridanum</i>	Shoot		20600.0	0.42761296263669324	--
<i>Erythrina fusca</i>	Leaf	570.0	3080.0	-1.049319993271239	--
<i>Erythrina berteroana</i>	Shoot	1080.0	6835.0	-0.5769304243567052	--
<i>Erythroxyllum novogranatense</i>	Leaf	7600.0	14600.0	-0.26218551840957965	--
<i>Erythroxyllum novogranatense</i>	Leaf	10200.0	13000.0	-0.37150975102925454	--
<i>Erythroxyllum coca</i>	Plant				--
<i>Eucommia ulmoides</i>	Bark		10200.0	-0.8097922929982918	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<i>Eugenia uniflora</i>	Fruit	70.0	640.0	-0.742191451929553	--
<i>Eugenia floribunda</i>	Fruit	60.0	465.0	-0.7825745172479952	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Eugenia brasiliensis</i>	Fruit	395.0	2720.0	-0.26220987557321296	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Euodia rutaecarpa	Fruit		11600.0	1.786942238871162	--
Eupatorium perfoliatum	Plant	1260.0	14000.0	0.04392125722715171	--
Euphrasia officinalis	Plant	1771.0	11500.0	-0.22349528673219693	--
Fagopyrum esculentum	Seed	241.0	1140.0	-0.5521526716754526	--
Fallopia japonica	Plant	11000.0	12000.0	-0.1700119779403272	Chem. & Pharm. Bull. 38: 2205.
Feijoa sellowiana	Fruit	40.0	731.0	-0.7211922579639632	--
Ficus carica	Leaf		31600.0	0.899384453174466	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Ficus carica	Fruit	350.0	4228.0	0.0857767672851336	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Firmiana simplex	Seed		2310.0	-0.3372728725480661	--
Foeniculum vulgare	Leaf	1000.0	10556.0	-0.5385025163558079	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Foeniculum vulgare	Seed	1415.0	13100.0	1.644396386071165	--
Foeniculum vulgare	Fruit	880.0	13941.0	2.327152272645294	--
Forsythia suspensa	Fruit		4380.0	0.12085234401886616	--
Fragaria spp	Fruit	135.0	2900.0	-0.22067300838852968	--
Frangula purshiana	Bark	4100.0	14800.0	-0.3701186348289897	--
Fraxinus rhynchophylla	Bark		38600.0	1.9047146400469648	--
Fritillaria thunbergii	Bulb		400.0	-1.2801999375430626	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Fucus vesiculosus	Plant	3587.0	30400.0	1.798173785600479	--
Garcinia mangostana	Fruit	100.0	637.0	-0.7428837330492978	--
Gardenia jasminoides	Fruit	2810.0	4710.0	0.1970032671907855	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Gastrodia elata	Rhizome		2140.0	-1.0418807603582114	--
Genipa americana	Seed		900.0	-0.5962305791887627	--
Genipa americana	Fruit	400.0	3700.0	-0.036064709789937345	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Gentiana scabra	Root		7490.0	0.009549497275861294	--
Gentiana lutea	Root	1791.0	8140.0	0.0807362259091836	--
Geranium thunbergii	Plant		16900.0	0.3541244482199961	--
Ginkgo biloba	Leaf	2640.0	11000.0	-0.5081650418038481	--
Ginkgo biloba	Seed	20.0	230.0	-0.7192814043300865	--
Glechoma hederacea	Plant	21000.0	23000.0	1.0066208154808067	Chem. & Pharm. Bull. 38: 2205.
Gleditsia triacanthos	Seed		2800.0	-0.24728047804172457	--
Glehnia littoralis	Root		1930.0	-0.5993708276491726	--
Gliricidia sepium	Leaf	170.0	1110.0	-1.1839254546842135	--
Gliricidia sepium	Flower	220.0	1570.0	-1.1620866406888344	--
Glycine max	Plant	9400.0	13000.0	-0.06304536035658775	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Sprout Seedling	480.0	3504.0	-0.25583940940557376	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Glycine max	Fruit	670.0	2200.0	-0.382205269662298	--
Glycine max	Seed	780.0	4440.0	0.05391855663256077	--
Glycyrrhiza glabra	Root	1379.0	8780.0	0.15082777410199327	--
Glycyrrhiza uralensis	Root	6850.0	23500.0	1.7629333825366154	--
Gymnema sylvestre	Leaf	169.0	890.0	-1.1989575366694187	--
Harpagophytum procumbens	Root	1151.0	6060.0	-0.1470613057174478	--
Helianthus annuus	Seed	917.0	1225.0	-0.5365417460978219	USDA's Ag Handbook 8 and sequelae)
Helianthus tuberosus	Tuber	140.0	9600.0	1.686845136728985	--
Hibiscus sabdariffa	Leaf	2130.0	14792.0	-0.24906661049521867	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hibiscus sabdariffa	Flower	374.0	3400.0	-0.6558141831778627	--
Hibiscus rosa-sinensis	Flower	40.0	395.0	-1.4871522896371359	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Hibiscus sabdariffa	Seed	3200.0	6000.0	0.3404249554690761	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hordeum vulgare	Seed	160.0	4100.0	-0.008525145677961804	Jim Duke's personal files.*
Hordeum vulgare	Stem		11000.0	-0.8397648224115174	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Hordeum vulgare	Plant	800.0	10400.0	-0.34115856607431033	Jim Duke's personal files.*
Hordeum vulgare	Sprout Seedling		720.0	-0.580774133760098	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Houttuynia cordata	Plant		770.0	-1.371247093405721	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Humulus lupulus	Flower	1157.0	6220.0	0.12434337429806096	--
Humulus lupulus	Fruit		6222.0	0.545912951542125	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Hydrangea arborescens	Root	2261.0	6460.0	-0.10325408809694175	--
Hydrastis canadensis	Root	823.0	2970.0	-0.48547206183585695	--
Hylocereus undatus	Fruit	100.0	640.0	-0.742191451929553	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Hylocereus guatemalensis	Fruit	63.0	500.0	-0.7744979041843068	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Hyoscyamus niger	Seed		7420.0	0.6012192415894938	--
Inga feuillei	Aril	140.0	875.0	-1.3546536563539873	J Cell Biochem VOL. 22=1995
Inga edulis	Seed	1920.0	5230.0	0.19900833553053968	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Inula helenium	Root	2200.0	10000.0	0.28443978784453666	--
Ipomoea batatas	Leaf	370.0	17900.0	-0.0367042886315002	--
Ipomoea aquatica	Leaf	276.0	12665.0	-0.394399512233999	--
Ipomoea batatas	Root	203.0	2300.0	-0.5588491513502045	--
Isatis tinctoria	Root		16300.0	0.9744034653675068	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Juglans regia	Seed	610.0	1100.0	-0.5594989895943375	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Juglans cinerea	Seed	512.0	724.0	-0.6285543780318567	--
Juglans nigra	Seed	565.0	668.0	-0.6388392231182957	--
Juglans nigra	Pericarp	371.0	3090.0		--
Juglans nigra	Hull Husk		3090.0	1.0	--
Juglans nigra	Fruit		3090.0	-0.176828537471364	--
Juncus effusus	Pith		1440.0	-0.6246622582977759	--
Juniperus virginiana	Shoot	7980.0	31680.0	1.2362101822434388	--
Juniperus communis	Fruit	2632.0	8490.0	1.0692774780691343	--
Jussiaea repens	Plant		14400.0	0.08670790426064749	--
Justicia pectoralis	Leaf	6630.0	44200.0	1.7603127850544058	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Kalmia latifolia	Leaf		9600.0	-0.6038237453460636	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Lablab purpureus	Seed	500.0	4122.0	-0.004484670822575049	--
Lablab purpureus	Fruit	500.0	2841.0	-0.23428787041017587	--
Lactuca sativa	Leaf	360.0	19140.0	0.04802199164874784	--
Lagenaria siceraria	Fruit	200.0	5830.0	0.4554548852288148	--
Lantana camara	Shoot		6100.0	-0.6305693193396437	--
Lantana camara	Fruit		1100.0	-0.6360416802353624	--
Larrea tridentata	Plant	5396.0	16400.0	0.3006411394281264	--
Lens culinaris	Sprout Seedling	244.0	853.0	-0.5652510309083912	USDA's Ag Handbook 8 and sequelae)
Lens culinaris	Seed	386.0	604.0	-0.6505933317885116	--
Lepidium sativum	Seed	3100.0	3290.0	-0.1572880835353832	--
Lepidium meyenii	Root	2470.0	2500.0	-0.5369455425399515	--
Lepidium sativum	Leaf	810.0	20340.0	0.130015166113504	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Licania platypus	Fruit	105.0	938.0	-0.6734248607015775	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Ligustrum lucidum	Fruit		3040.0	-0.18836655613377604	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Ligustrum japonicum	Fruit		3040.0	-0.18836655613377604	--
Limonia acidissima	Seed	15800.0	16460.0	2.261487091257506	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Limonia acidissima	Fruit	1300.0	6540.0	0.6192947502350655	--
Linum usitatissimum	Hay		7200.0		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Linum usitatissimum	Seed	1820.0	7400.0	0.5975460826300514	--
Liquidambar styraciflua	Stem	2400.0	42000.0	2.5214630013143755	--
Liquidambar styraciflua	Leaf	3720.0	18860.0	0.028890250940304736	--
Lobelia inflata	Leaf	793.0	7020.0	-0.7801090704452894	--
Lonicera japonica	Flower		7390.0	0.4480257651657314	--
Lophatherum gracile	Plant		2380.0	-1.1990308390959006	--
Luffa aegyptiaca	Leaf	560.0	55000.0	2.498251355237212	--
Luffa aegyptiaca	Fruit	200.0	4000.0	0.033163402184534785	--
Lupinus albus	Seed	1760.0	1965.0	-0.40063486459844927	--
Lupinus mutabilis	Seed	900.0	1000.0	-0.5778647843915501	--
Lupinus mutabilis	Fruit	280.0	980.0	-0.6637329250251514	--
Lycium chinense	Fruit	225.0	1170.0	-0.6198884541079857	--
Lycium chinense	Root Bark		53900.0	2.196634405558688	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Lycium chinense	Leaf	1480.0	14231.0	-0.2873984195574922	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lycopersicon esculentum	Fruit	60.0	2400.0	-0.3360531950126499	--
Lycopersicon esculentum	Leaf		60800.0	2.894551698483533	--
Lycopodium clavatum	Plant		16020.0	0.2599938247463054	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Lygodium japonicum	Pollen Or Spore		3060.0		--
Macadamia spp	Seed	355.0	1075.0	-0.5640904382936407	USDA's Ag Handbook 8 and sequelae)
Magnolia fargesii	Flower		8040.0	0.6278493156477706	--
Magnolia denudata	Flower		8040.0	0.6278493156477706	--
Magnolia officinalis	Bark		6350.0	-1.1777800286399904	--
Magnolia kobus	Flower		8040.0	0.6278493156477706	--
Malpighia glabra	Fruit	120.0	1400.0	-0.5668135682608904	--
Malus domestica	Fruit	43.0	570.0	-0.75834467805693	--
Malva sylvestris	Leaf	900.0	10715.0	-0.5276384207392277	--
Malva parviflora	Plant	3120.0	23650.0	1.0761491169102375	--
Mammea americana	Fruit	40.0	985.0	-0.6625791231589101	--
Mangifera indica	Leaf	290.0	29300.0	0.7422308687836834	--
Mangifera indica	Fruit	92.0	1400.0	-0.5668135682608904	--
Manihot esculenta	Leaf	1450.0	10000.0	-0.576492687191145	--
Manihot esculenta	Root	190.0	2890.0	-0.49423350535995814	--
Manilkara zapota	Fruit	240.0	1300.0	-0.5898896055857143	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Maranta arundinacea	Root	150.0	467.0	-0.7595957260961734	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Mauritia flexuosa	Fruit	740.0	1610.0	-0.5183538898787599	J Cell Biochem VOL. 22=1995
Medicago sativa	Plant	1690.0	8990.0	-0.49198149686738296	--
Melia azedarach	Seed		2310.0	-0.3372728725480661	--
Melia azedarach	Leaf		25500.0	0.4825858163119555	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Melicoccus bijugatas	Fruit	34.0	555.0	-0.7618060836556535	--
Melilotus indica	Plant		13400.0	-0.020258713323091964	--
Mentha spicata	Plant	1990.0	13770.0	0.019318935182891635	--
Mentha pulegium	Plant	9440.0	16870.0	0.35091544969248395	--
Mentha x rotundifolia	Leaf		16300.0	-0.14602852125117508	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Mentha arvensis var. piperascens	Plant		13500.0	-0.009562051564718019	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Mentha x piperita	Leaf	2414.0	16200.0	-0.15286128578990477	--
Mimosa pudica	Leaf	350.0	23800.0	0.36642881915355097	--
Mimulus glabratus	Shoot	5430.0	54300.0	2.886974542126525	--
Momordica charantia	Leaf	2640.0	18701.0	0.018026155323724542	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Momordica charantia	Fruit	130.0	4333.0	0.11000660647619885	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Morinda sp	Root		10000.0	0.28443978784453666	--
Morinda citrifolia	Leaf	360.0	1600.0	-1.1504449084444381	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Moringa oleifera	Leaf	4400.0	17600.0	-0.05720258224768924	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Moringa oleifera	Fruit	300.0	2545.0	-0.30259294089165506	USDA's Ag Handbook 8 and sequelae)
Morus alba	Root Bark	16100.0	16500.0	-0.29288458740782497	--
Morus alba	Leaf	7000.0	27400.0	0.6124083425478194	--
Morus alba	Fruit	300.0	6400.0	0.5869882979803118	--
Mucuna pruriens	Seed	1320.0	1600.0	-0.467670015608275	--
Muntingia calabura	Fruit	640.0	5615.0	0.4058414049804431	--
Murraya sp	Fruit	20.0	95.0	-0.8679558553498441	--
Murraya koenigii	Leaf	8100.0	30035.0	0.7924516881433465	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Musa x paradisiaca</i>	Pith		100.0	-0.7864626628310915	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Musa x paradisiaca</i>	Leaf		7500.0	-0.747311800659387	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Musa x paradisiaca</i>	Fruit	20.0	95.0	-0.8679558553498441	--
<i>Musa x paradisiaca</i>	Sprout Seedling		11600.0	0.6890857085449396	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Musa x paradisiaca</i>	Flower		300.0	-1.5134341931691262	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Myrciaria dubia</i>	Fruit	270.0	4500.0	0.148543588808655	--
<i>Myrciaria cauliflora</i>	Fruit	60.0	3695.0	-0.037218511656178545	--
<i>Myrica cerifera</i>	Bark	2442.0	11200.0	-0.7142110629614871	--
<i>Myristica fragrans</i>	Seed	1110.0	2000.0	-0.3942068364194249	--
<i>Myristica fragrans</i>	Aril		2400.0	1.0290157581919714	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Nardostachys chinensis</i>	Rhizome		11600.0	1.01765278345351	--
<i>Nasturtium officinale</i>	Herb	1200.0	24000.0	1.0	--
<i>Nelumbo nucifera</i>	Fruit	1360.0	1511.0	-0.5411991668303356	--
<i>Nelumbo nucifera</i>	Seed	590.0	13333.0	1.6871886879486702	--
<i>Nelumbo nucifera</i>	Rhizome	450.0	3704.0	-0.7013828256307767	--
<i>Nepeta cataria</i>	Plant	739.0	6160.0	-0.7946970246293654	--
<i>Nigella sativa</i>	Seed		10600.0	1.185251516140852	--
<i>Notopterygium incisum</i>	Rhizome		3850.0	-0.6695972127981645	--
<i>Nyssa sylvatica</i>	Leaf	1950.0	22750.0	0.2946847914968893	--
<i>Nyssa sylvatica</i>	Stem	2850.0	14520.0	-0.4581028243626418	--
<i>Ocimum basilicum</i>	Leaf	3200.0	23700.0	0.35959605461482125	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ocimum tenuiflorum	Leaf		31500.0	0.8925516886357363	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Oenothera biennis	Plant	12100.0	23400.0	1.0494074625143026	--
Oenothera biennis	Seed	12700.0	18000.0	2.5443203311345783	--
Olea europaea	Leaf		11800.0	-0.4535029254940107	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Olea europaea	Fruit	610.0	2798.0	-0.24421056645985023	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Ophiopogon japonicus	Tuber	870.0	3450.0	-0.1260687546119467	--
Opuntia ficus-indica	Fruit	180.0	3065.0	-0.18259754680257	--
Opuntia ficus-indica	Be		560.0		--
Opuntia ficus-indica	Bud		560.0	-1.0	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
Origanum vulgare	Plant	14070.0	18794.0	0.5567192219235987	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Origanum majorana	Plant	17925.0	23625.0	1.073474951470644	USDA's Ag Handbook 8 and sequelae)
Oryza sativa	Seed	71.0	364.0	-0.6946712393018217	--
Oryza sativa	Plant	1900.0	3300.0	-1.1006215509188604	--
Oxalis tuberosa	Root	40.0	247.0	-0.7836896957874517	--
Pachira macrocarpa	Seed	830.0	875.0	-0.6008220278880657	--
Pachyrhizus erosus	Tuber	150.0	1380.0	-0.7362690399901138	--
Paeonia suffruticosa	Root Bark	5150.0	16700.0	-0.2795716516165602	--
Paeonia moutan	Root Bark	5150.0	16700.0	-0.2795716516165602	--
Paeonia lactiflora	Root	10300.0	40600.0	3.635691935813249	--
Panax quinquefolius	Plant	2340.0	10800.0	-0.29837191904081456	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Panax japonicus</i>	Rhizome		7000.0	0.016188269549290316	--
<i>Panax ginseng</i>	Root	611.0	2880.0	-0.4953286858004708	--
<i>Panicum maximum</i>	Leaf	7100.0	20900.0	0.1682786475303902	--
<i>Papaver somniferum</i>	Seed	13807.0	16214.0	2.216307236056363	--
<i>Parthenium integrifolium</i>	Root	1424.0	8900.0	0.16396993938814508	--
<i>Passiflora quadrangularis</i>	Fruit	90.0	2500.0	-0.31297715768782586	--
<i>Passiflora edulis</i>	Seed		800.0	-0.6145963739859751	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Passiflora incarnata</i>	Flower	506.0	4600.0	-0.3238322438264058	--
<i>Passiflora ligularis</i>	Fruit	56.0	810.0	-0.7029621884773523	--
<i>Passiflora edulis</i>	Fruit	130.0	1190.0	-0.6152732466430209	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Passiflora incarnata</i>	Fruit	140.0	509.0	-0.7724210608250726	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
<i>Passiflora quadrangularis</i>	Seed	90.0	415.0	-0.6853046839552434	--
<i>Passiflora foetida</i>	Fruit	200.0	1110.0	-0.63373407650288	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Passiflora mollissima</i>	Fruit	40.0	500.0	-0.7744979041843068	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Pastinaca sativa</i>	Root	315.0	3525.0	-0.4246895473874048	--
<i>Peganum harmala</i>	Plant		5600.0	-0.8545983304762595	--
<i>Peperomia pereskiaifolia</i>	Leaf	1500.0	10000.0	-0.576492687191145	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Peperomia pelucida</i>	Leaf	1240.0	15900.0	-0.1733595794060938	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Pereskia aculeata</i>	Fruit	130.0	2025.0	-0.42258833498074005	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Perideridia gairdneri</i>	Root		600.0	-0.7450298262373551	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>	Plant		12670.0	-0.09834434415922177	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
<i>Perilla frutescens</i>	Leaf	1970.0	14071.0	-0.29833084281945965	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Perilla frutescens</i>	Seed	1400.0	3500.0	-0.11871991446123692	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Persea americana</i>	Fruit	60.0	964.0	-0.6674250909971232	--
<i>Persea schiedeana</i>	Fruit	114.0	532.0	-0.767113572240363	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Petasites japonicus</i>	Pt	1030.0	18725.0	0.7484589275751646	USDA's Ag Handbook 8 and sequelae)
<i>Petasites japonicus</i>	Plant	13000.0	14000.0	0.04392125722715171	Chem. & Pharm. Bull. 38: 2205.
<i>Petroselinum crispum</i>	Plant	1000.0	16850.0	0.34877611734080916	--
<i>Petroselinum crispum</i>	Shoot		1600.0	-0.9589707171943687	--
<i>Peucedanum decursivum</i>	Plant	14400.0	30000.0	1.755387138566983	--
<i>Phaseolus vulgaris</i>	Seed	510.0	3295.0	-0.1563697937955226	--
<i>Phaseolus lunatus</i>	Sprout Seedling	1090.0	3028.0	-0.3113957775064191	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phaseolus coccineus</i>	Seed	600.0	1600.0	-0.467670015608275	--
<i>Phaseolus vulgaris</i>	Leaf	2740.0	20758.0	0.15857612188539408	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phaseolus lunatus</i>	Seed	250.0	8600.0	0.8179356201966016	--
<i>Phaseolus acutifolius</i>	Seed	1120.0	1966.0	-0.4004512066504771	--
<i>Phaseolus coccineus</i>	Fruit	500.0	610.0	-0.7491142631270002	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Phaseolus vulgaris</i>	Sprout Seedling	170.0	1828.0	-0.4514538483488865	USDA's Ag Handbook 8 and sequelae)
<i>Phaseolus vulgaris</i>	Fruit	356.0	18000.0	3.2638086276599014	--
<i>Phaseolus lunatus</i>	Leaf	80.0	2857.0	-1.064557058192606	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Phellodendron amurense</i>	Bark		14100.0	-0.4370254958547531	--
<i>Phoenix dactylifera</i>	Fruit	140.0	2000.0	-0.4283573443119461	--
<i>Phoenix dactylifera</i>	Seed	18.0	436.0	-0.6814478670478287	Abstract (See species file)
<i>Phragmites australis</i>	Shoot		9400.0	-0.38974162757951175	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Phyllanthus emblica</i>	Fruit	120.0	2660.0	-0.2760554979681074	--
<i>Phyllanthus acidus</i>	Fruit	60.0	2326.0	-0.3531294626330197	--
<i>Physalis angulata</i>	Fruit	810.0	8100.0	0.9792809325023206	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Physalis peruviana</i>	Fruit	80.0	585.0	-0.7548832724582063	--
<i>Physalis ixocarpa</i>	Fruit	70.0	2580.0	-0.2945163278279666	--
<i>Phytelephas aequatorialis</i>	Mesocarp	1160.0	3410.0		KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
<i>Phytelephas aequatorialis</i>	Flower	1780.0	6095.0	0.0897619222822842	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
<i>Phytolacca americana</i>	Shoot	530.0	6307.0	-0.6154628550383262	--
<i>Pimenta dioica</i>	Leaf	10056.0	11166.0	-0.4968226526695569	--
<i>Pimenta dioica</i>	Fruit	7224.0	8000.0	0.9562048951774965	--
<i>Pimpinella anisum</i>	Seed	6460.0	7843.0	0.6789065535817028	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Pimpinella anisum</i>	Fruit	7138.0	7843.0	0.9199755165775227	--
<i>Pinellia ternata</i>	Tuber	4180.0	10000.0	1.8047582353527853	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Pinus cembroides</i>	Seed	120.0	145.0	-0.7348923299077171	USDA's Ag Handbook 8 and sequelae)
<i>Pinus edulis</i>	Seed	59.0	117.0	-0.7400347524509366	--
<i>Pinus gerardiana</i>	Seed	910.0	980.0	-0.5815379433509926	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pinus pinea</i>	Seed	260.0	280.0	-0.7100985069314802	USDA's Ag Handbook 8 and sequelae)
<i>Pinus echinata</i>	Shoot	1088.0	11760.0	-0.21751333892681143	--
<i>Piper betel</i>	Leaf	2300.0	15750.0	-0.18360872621418833	--
<i>Piper auritum</i>	Leaf	2570.0	14440.0	-0.2731179416715471	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Piper nigrum</i>	Fruit	2700.0	4989.0	0.26138541132704457	--
<i>Pistacia vera</i>	Seed	1066.0	1464.0	-0.492647496532484	--
<i>Pisum sativum</i>	Fruit	430.0	4253.0	0.09154577661633961	--
<i>Pisum sativum</i>	Seed	230.0	1700.0	-0.44930422081106247	--
<i>Pisum sativum</i>	Plant	10200.0	14100.0	0.054617918985525656	--
<i>Plantago asiatica</i>	Plant		18000.0	0.4717877275621095	--
<i>Plantago major</i>	Shoot	860.0	1340.0	-0.9779450201815306	--
<i>Plantago psyllium</i>	Seed	728.0	3340.0	-0.14810518613677695	--
<i>Plantago psyllium</i>	Hull Husk		3059.0	-1.0	--
<i>Plantago major</i>	Seed	7020.0	23400.0	3.536073250184055	--
<i>Platonia insignis</i>	Fruit	200.0	720.0	-0.7237306220696939	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Platycodon grandiflorum</i>	Root	180.0	5240.0	-0.23686610183948517	--
<i>Plectranthus amboinicus</i>	Leaf	2320.0	41430.0	1.5710452073315937	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Polygala tenuifolia</i>	Root		3420.0	-0.43618894201278763	--
<i>Polygonum multiflorum</i>	Rhizome		15300.0	1.8231785881156002	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Polygonum multiflorum	Plant		2225.0	-1.2156106648213802	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Polygonum multiflorum	Root		3370.0	-0.4416648442153509	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Polymnia edulis	Root	150.0	1650.0	-0.6300358799835268	--
Polystichum polyblepharum	Plant	6000.0	6900.0	-0.7155417276173982	--
Portulaca oleracea	Herb	780.0	20800.0	-1.0	--
Pothomorphe sp.	Leaf	1690.0	9440.0	-0.6147561686080312	--
Pourouma cecropiaefolia	Fruit	340.0	1890.0	-0.45374098536925256	J Cell Biochem VOL. 22=1995
Pouteria viridis	Fruit	230.0	730.0	-0.7214230183372115	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Pouteria campechiana	Fruit	220.0	895.0	-0.6833475567512518	--
Pouteria caimito	Fruit	220.0	3700.0	-0.036064709789937345	--
Prosopis juliflora	Leaf		20800.0	0.16144588299166054	--
Prunella vulgaris	Flower		14500.0	2.4150187558231133	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Prunus domestica	Fruit	38.0	2040.0	-0.41912692938201646	--
Prunus armeniaca	Fruit	134.0	1899.0	-0.45166414201001837	--
Prunus persica	Seed		970.0	-0.5833745228307139	--
Prunus serotina	Stem	323.0	18360.0	-0.04174428103659576	--
Prunus cerasus	Fruit	140.0	1954.0	-0.43897232148136517	--
Prunus persica	Fruit	18.0	8850.0	1.152351212438501	--
Prunus armeniaca	Seed	930.0	1522.0	-0.4819953355501007	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
Prunus salicifolia	Fruit	172.0	1080.0	-0.6406568877003272	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Prunus serotina	Leaf	4060.0	32640.0	0.9704452043772547	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Prunus dulcis</i>	Seed	2426.0	2962.0	-0.2175278904702403	--
<i>Psidium cattleianum</i>	Fruit	210.0	3400.0	-0.10529282176440947	--
<i>Psidium guajava</i>	Fruit	90.0	1582.0	-0.5248151803297106	--
<i>Psophocarpus tetragonolobus</i>	Seed	567.0	8586.0	0.8153644089249918	--
<i>Psophocarpus tetragonolobus</i>	Leaf	1845.0	11383.0	-0.4819955536205135	--
<i>Psophocarpus tetragonolobus</i>	Tuber	300.0	704.0	-0.9355421766643365	--
<i>Psoralea esculenta</i>	Root		5100.0	-0.25219862800666226	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>Pueraria montana</i>	Root	150.0	475.0	-0.7587195817437633	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Pueraria pseudohirsuta</i>	Root	5330.0	8300.0	0.09825911295738601	--
<i>Pueraria montana</i>	Shoot	1600.0	1700.0	-0.9516729083531525	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pulsatilla chinensis</i>	Root		16200.0	0.9634516609623802	--
<i>Punica granatum</i>	Fruit	30.0	650.0	-0.7398838481970706	--
<i>Pyrus communis</i>	Fruit	68.0	1776.0	-0.48004766791955195	--
<i>Quararibea cordata</i>	Fruit	184.0	1250.0	-0.6014276242481265	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<i>Quercus velutina</i>	Stem	5040.0	22940.0	0.4548500232429071	--
<i>Quercus alba</i>	Bark	8436.0	37000.0	1.7517846719880772	--
<i>Quercus rubra</i>	Seed		947.0	-0.5875986556340728	--
<i>Quercus stellata</i>	Stem	5750.0	31920.0	1.4285218250835043	--
<i>Quercus phellos</i>	Stem	2940.0	14700.0	-0.43858601764423344	--
<i>Quercus rubra</i>	Stem	5200.0	23760.0	0.5437599205156565	--
<i>Quercus alba</i>	Stem	4600.0	27360.0	0.9340960548838247	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Quisqualis indica	Fruit		1430.0	-0.5598907570634432	--
Raphanus sativus	Leaf	2380.0	19130.0	0.04733871519487487	--
Raphanus sativus	Seed		3670.0	-0.08749806330597563	--
Raphanus sativus	Fruit	260.0	10130.0	1.4477244901962487	--
Raphanus sativus	Root	190.0	8570.0	0.1278289848512276	--
Rauvolfia serpentina	Seed	3400.0	6900.0	0.5057171086439888	--
Rehmannia glutinosa	Root		1150.0	-0.6847949020091594	--
Rheum palmatum	Rhizome	9630.0	12400.0	1.1918205250020704	--
Rheum rhabarbarum	Pt	600.0	18462.0	0.664932181626536	--
Rheum rhabarbarum	Leaf	470.0	14400.0	-0.27585104748703904	--
Rhizophora mangle	Leaf		13500.0	-0.3373459283356061	--
Rhodymenia palmata	Plant		6320.0	-0.7775823658159672	--
Rhus copallina	Stem	2450.0	21350.0	0.28245156389696613	--
Rhus copallina	Leaf	3240.0	24960.0	0.44568888780281524	--
Rhus glabra	Stem	2520.0	24790.0	0.6554394256265491	--
Rhynchosia minima	Shoot		19200.0	0.3254436388596676	--
Ribes nigrum	Fruit	502.0	4720.0	0.1993108709232679	--
Ribes uva-crispa	Fruit	185.0	4122.0	0.06131616772082012	--
Ribes rubrum	Fruit	298.0	2875.0	-0.2264420177197357	--
Ricinus communis	Leaf		26700.0	0.5645789907767117	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Robinia pseudoacacia	Seed		19000.0	2.7279782791067038	--
Robinia pseudoacacia	Leaf	12900.0	15000.0	-0.23485446025466092	--
Rollinia mucosa	Fruit	240.0	1050.0	-0.6475796988977744	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Rosa laevigata	Fruit		7620.0	0.8685159533431651	--
Rosa canina	Fruit	1515.0	8100.0	0.9792809325023206	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rosmarinus officinalis	Plant	3170.0	16150.0	0.2738994850321915	USDA's Ag Handbook 8 and sequelae)
Rubia cordifolia	Root		37800.0	3.3290414124697065	--
Rubus chingii	Fruit		7490.0	0.8385171048208939	--
Rubus idaeus	Fruit	220.0	1645.0	-0.51027727268150714	Revised USDA data received 1993.
Rubus chamaemorus	Fruit	150.0	1125.0	-0.6302726709041565	--
Rubus idaeus	Leaf	2045.0	12100.0	-0.4330046318778217	--
Rumex crispus	Leaf	150.0	10000.0	-0.576492687191145	--
Rumex acetosa	Leaf	430.0	4300.0	-0.9659602658987367	--
Rumex crispus	Root	2570.0	10000.0	0.28443978784453666	--
Ruscus aculeatus	Root	2190.0	7250.0	-0.01673483329644233	--
Salix alba	Bark	2369.0	14100.0	-0.4370254958547531	--
Salvia officinalis	Leaf	1696.0	10800.0	-0.5218305708813075	--
Salvia miltiorrhiza	Root		2780.0	-0.5062804902055973	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Sambucus canadensis	Fruit	380.0	1881.0	-0.4558178287284867	USDA's Ag Handbook 8 and sequelae)
Sambucus nigra	Fruit	235.0	1440.0	-0.5575831533309608	--
Santalum acuminatum	Fruit	420.0	1800.0	-0.47450941896159415	--
Sassafras albidum	Stem	913.0	10360.0	-0.9091579129658584	--
Sassafras albidum	Leaf	2607.0	17680.0	-0.051736370616705496	--
Satureja hortensis	Plant		23429.0	1.052509494424231	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Schisandra chinensis	Fruit	864.0	5760.0	0.439301659101438	--
Schizonepeta tenuifolia	Plant		10900.0	-0.2876752572824406	--
Sclerocarya caffra	Seed	1430.0	1490.0	-0.48787238988520876	--
Scrophularia buergeriana	Root		2670.0	-0.5183274750512364	--
Scutellaria lateriflora	Plant	623.0	4550.0	-0.966913278939186	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Scutellaria baicalensis	Root	4630.0	10300.0	0.3172952010599162	--
Secale cereale	Seed	315.0	685.0	-0.6357170380027696	--
Sechium edule	Shoot	660.0	8920.0	-0.42477111001734913	--
Sechium edule	Leaf	592.0	3345.0	-1.0312131672436051	--
Sechium edule	Fruit	190.0	2715.0	-0.26336367743945416	--
Senna alexandrina	Leaf	5339.0	26300.0	0.5372479326217929	--
Senna occidentalis	Seed		7450.0	0.6067289800286576	--
Senna obtusifolia	Seed	4100.0	6590.0	0.4487831447726299	--
Serenoa repens	Fruit	605.0	4640.0	0.18085004106340866	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Sesamum indicum	Seed	800.0	12638.0	1.559546414108043	--
Sicana odorifera	Fruit	210.0	2460.0	-0.3222075726177555	--
Sida rhombifolia	Leaf	4660.0	23535.0	0.3483219931259173	--
Siegesbeckia orientalis	Plant		11100.0	-0.2662819337656927	--
Silybum marianum	Leaf	1421.0	6460.0	-0.8183725518621756	--
Silybum marianum	Plant		6460.0	-0.7626070393542436	--
Simmondsia chinensis	Seed		372.0	-0.6932019757180448	--
Sinapis alba	Seed	4983.0	5850.0	0.3128762632732573	--
Sinomenium acutum	Rhizome		15400.0	1.8449495558091702	--
Smilax spp	Root	626.0	2980.0	-0.4843768813953443	--
Smilax officinalis	Root	626.0	2980.0	-0.4843768813953443	--
Solanum melongena	Leaf	2540.0	18676.0	0.016317964189042123	--
Solanum sessiliflorum	Fruit	120.0	1200.0	-0.6129656429105385	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Solanum torvum	Fruit	1040.0	7125.0	0.7542895685852862	--
Solanum melongena	Fruit	120.0	5706.0	0.426840598946033	--
Solanum quitoensis	Fruit	60.0	975.0	-0.6648867268913925	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Solanum nigrum	Leaf	1999.0	14400.0	-0.27585104748703904	--
Solanum tuberosum	Tuber	34.0	2550.0	-0.3913732265154976	--
Sonchus oleraceus	Leaf	1310.0	19265.0	0.05656294732215994	--
Sophora japonica	Seed		2649.0	-0.27501282818551565	--
Sophora subprostrata	Root		18600.0	1.2262949666854164	--
Sophora angustifolia	Root	8750.0	9710.0	0.2526795550696698	--
Sophora secundiflora	Seed	500.0	1900.0	-0.4125726312166374	--
Sorbus aucubaria	Fruit	100.0	2115.0	-0.40181990138839846	--
Spartium junceum	Stem		6500.0	-1.3276849903717276	--
Sphenostylis stenocarpa	Root	100.0	284.0	-0.7796375281575549	--
Sphenostylis stenocarpa	Seed	550.0	607.0	-0.6500423579445953	--
Spinacia oleracea	Plant	730.0	15700.0	0.2257645071195088	--
Spirulina pratensis	Plant		280.0	-1.4236607360217535	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Spirulina spp.	Plant		280.0	-1.4236607360217535	--
Spondias tuberosa	Fruit		200.0	-0.8437260161587788	--
Spondias mombin	Fruit	260.0	2500.0	-0.31297715768782586	--
Spondias purpurea	Fruit	140.0	925.0	-0.6764247455538046	--
Spondias dulcis	Seed		5000.0	0.15676700749695088	--
Spondias pinnata	Fruit	360.0	3710.0	-0.03375710605745494	--
Spondias dulcis	Fruit	560.0	4275.0	0.09662250482780091	--
Stachys officinalis	Plant	2822.0	16800.0	0.3434277864616222	--
Stellaria media	Plant		12100.0	-0.15931531618195327	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Stellaria media	Shoot	400.0	1110.0	-0.9947299805163277	--
Stevia rebaudiana	Leaf		5440.0	-0.8880667501572184	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Stevia rebaudiana</i>	Plant		2100.0	-1.2289814920193476	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
<i>Stillingia sylvatica</i>	Plant		3100.0	-1.1220148744356082	--
<i>Symphoricarpos orbiculatus</i>	Stem	2584.0	22880.0	0.44834442100343763	--
<i>Symphytum officinale</i>	Root		11300.0	0.4268132451111813	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Symphytum officinale</i>	Leaf	1980.0	18000.0	-0.029871524092770517	--
<i>Syzygium aromaticum</i>	Fruit	6460.0	9540.0	1.3115758699797868	--
<i>Syzygium aromaticum</i>	Flower	6460.0	9540.0	1.0428267398370916	--
<i>Syzygium malaccense</i>	Fruit	55.0	2615.0	-0.2864397147642782	--
<i>Syzygium jambos</i>	Fruit	290.0	2045.0	-0.41797312751577526	--
<i>Syzygium cumini</i>	Fruit	80.0	920.0	-0.6775785474200458	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tabebuia heptaphylla</i>	Bark	5836.0	32600.0	1.3312272598261359	--
<i>Tamarindus indica</i>	Fruit	170.0	2829.0	-0.23705699488915477	--
<i>Tamarindus indica</i>	Seed		1210.0	-0.5392966153174038	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Tamarindus indica</i>	Flower		2650.0	-0.8633028952725232	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tamarindus indica</i>	Leaf	1053.0	23000.0	0.3117667028437135	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Tanacetum parthenium</i>	Plant		5810.0	-0.8321353407836742	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Taraxacum officinale</i>	Root	878.0	6140.0	-0.13829986219334658	--
<i>Taraxacum mongolicum</i>	Plant		16900.0	0.3541244482199961	--
<i>Taraxacum officinale</i>	Plant	12000.0	21000.0	0.7926875803133279	Chem. & Pharm. Bull. 38: 2205.
<i>Taraxacum officinale</i>	Leaf	1870.0	42232.0	1.6258439789322057	--
<i>Tephrosia purpurea</i>	Leaf		16500.0	-0.13236299217371572	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Terminalia catappa	Seed	320.0	5100.0	0.1751328022941634	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Terminalia bellirica	Leaf		20800.0	0.16144588299166054	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Tetragonia tetragonioides	Leaf	580.0	9665.0	-0.5993824483958894	--
Tetrapanax papyrifera	Pith		18300.0	1.411124921128867	--
Theobroma cacao	Seed	800.0	1100.0	-0.5594989895943375	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Theobroma cacao	Fruit	1300.0	3095.0	-0.1756747356051228	J Cell Biochem VOL. 22=1995
Theobroma bicolor	Seed	650.0	675.0	-0.6375536174824907	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Theobroma speciosum	Fruit	190.0	485.0	-0.7779593097830303	J Cell Biochem VOL. 22=1995
Theobroma bicolor	Fruit	158.0	184.0	-0.8474181821307507	--
Thymus vulgaris	Plant	16935.0	22534.0	0.9567743716867843	USDA's Ag Handbook 8 and sequelae)
Thymus vulgaris	Leaf	2806.0	16700.0	-0.11869746309625637	--
Trachyspermum ammi	Fruit	15250.0	16469.0	2.9105144962168454	--
Tragopogon porrifolius	Root	480.0	2610.0	-0.5248985576943124	--
Tribulus terrestris	Leaf		33500.0	1.02920697941033	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Trichosanthes anguina	Fruit	500.0	9260.0	1.2469629654702794	--
Trifolium pratense	Flower	2358.0	13100.0	2.0277064932464137	--
Trifolium pratense	Shoot	4800.0	22900.0	0.5954625659846638	--
Trigonella foenum-graecum	Seed	95.0	730.0	-0.6274524303440239	--
Trigonella foenum-graecum	Leaf		12900.0	-0.3783425155679842	--
Triticum aestivum	Seed	100.0	4100.0	-0.008525145677961804	--
Triticum aestivum	Plant	900.0	10400.0	-0.34115856607431033	--
Tropaeolum tuberosum	Root	70.0	500.0	-0.7559816306424817	--
Tropaeolum majus	Shoot	2110.0	15400.0	0.04812690289345519	--
Turnera diffusa	Leaf	3801.0	18100.0	-0.023038759554040836	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Tussilago farfara	Flower		3670.0	-0.5811182468237849	--
Ullucus tuberosus	Root	30.0	365.0	-0.7707665665894025	--
Ulmus rubra	Bark	1602.0	9770.0	-0.8508922219141178	--
Urtica dioica	Leaf	5800.0	29000.0	0.7217325751674943	--
Vaccinium macrocarpon	Fruit	1440.0	12000.0	1.8792463881704582	--
Vaccinium vitis-idaea	Fruit	180.0	1730.0	-0.490662645088971	--
Vaccinium corymbosum	Fruit	58.0	400.0	-0.7975739415091307	--
Vaccinium myrtillus	Fruit	510.0	6380.0	0.582373090515347	--
Valeriana officinalis	Root	4956.0	42000.0	3.7890171974850206	--
Valerianella radicata	Plant	19884.0	24463.0	1.1631129770058177	--
Valerianella locusta	Plant	6410.0	7139.0	-0.6899767060148847	--
Vanilla planifolia	Fruit		19000.0	3.494569000908142	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Verbascum thapsus	Leaf	5852.0	13300.0	-0.3510114574130655	--
Vetiveria zizanioides	Leaf	2800.0	3100.0	-1.047953440363493	--
Viburnum opulus	Bark		23540.0	0.46526131569268436	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Vicia faba	Fruit	500.0	3425.0	-0.09952381243320346	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vicia faba	Seed	220.0	31160.0	4.961258926447746	USDA's Ag Handbook 8 and sequelae)
Vigna subterranea	Seed	100.0	945.0	-0.587965971530017	--
Vigna angularis	Seed	660.0	762.0	-0.6215753760089159	--
Vigna aconitifolia	Leaf		23400.0	0.3390977609986322	--
Vigna mungo	Seed	1100.0	2220.0	-0.35380208786555734	--
Vigna unguiculata	Shoot	630.0	6164.0	-0.6258987216812653	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Shoot	630.0	6164.0	-0.6258987216812653	--
Vigna unguiculata	Seed	1255.0	1643.0	-0.4597727238454736	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Vigna radiata	Sprout Seedling	110.0	1571.0	-0.4814496185209816	USDA's Ag Handbook 8 and sequelae)
Vigna aconitifolia	Seed	1360.0	3500.0	-0.11871991446123692	--
Vigna aconitifolia	Fruit		20100.0	3.7484054114812064	--
Vigna mungo	Plant		17400.0	0.40760775701186586	--
Vigna unguiculata	Seed	253.0	14400.0	1.8831517184349278	--
Vigna unguiculata	Fruit	500.0	4115.0	0.059700845108082434	USDA's Ag Handbook 8 and sequelae)
Vigna radiata	Seed	1183.0	1602.0	-0.46730269971233074	USDA's Ag Handbook 8 and sequelae)
Vigna aconitifolia	Plant	23400.0	23700.0	1.0814974477894244	--
Vigna mungo	Fruit		27100.0	5.363728024218889	--
Viscum album	Leaf		8910.0	-0.6509698206632984	--
Vitellaria paradoxa	Seed		1070.0	-0.5650087280335013	--
Vitis vinifera	Stem		17700.0	-0.11330590567075993	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Vitis vinifera	Fruit	92.0	4774.0	0.2117719310786729	--
Xanthosoma sagittifolium	Leaf	950.0	17800.0	-0.04353705317022988	--
Xanthosoma sagittifolium	Root	59.0	4000.0	-0.3726684764630539	--
Yucca baccata	Root	1718.0	8260.0	0.09387839119533542	--
Zea mays	Seed	10.0	181.0	-0.7282806437807207	--
Zea mays	Silk Stigma Style		2520.0		--
Zingiber officinale	Rhizome	150.0	3458.0	-0.7549394061569589	--
Zingiber officinale	Root	116.0	1650.0	-0.6300358799835268	--
Zizyphus jujuba	Fruit	260.0	1602.0	-0.5201999728647457	--
Zizyphus spina-christi	Fruit	1400.0	1544.0	-0.5335840745131437	--
Zizyphus jujuba	Shoot	800.0	21600.0	0.5005910510488544	--
Zizyphus jujuba	Leaf		19700.0	0.08628547306563406	--