

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for ARGININE

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus esculentus	Fruit	840.0	8450.0	1.1043565641994444	--
Acacia farnesiana	Leaf	7360.0	39480.0	1.3871175969782887	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Albizia lebeck	Seed				Wealth of India.
Allium cepa	Bulb	1580.0	17222.0	-1.0	USDA's Ag Handbook 8 and sequelae)
Allium schoenoprasum	Leaf	2020.0	25350.0	0.41927551453613565	USDA's Ag Handbook 8 and sequelae)
Allium ampeloprasum	Plant				--
Allium sativum var. sativum	Bulb	81.0	30316.0	1.0	--
Aloe vera	Leaf		78216.0	4.040361114705058	--
Alpinia galanga	Leaf				--
Amaranthus sp.	Leaf	1210.0	14556.0	-0.32006542232731827	--
Anacardium occidentale	Seed	17410.0	17711.0	-0.2934159428910989	--
Ananas comosus	Fruit	46.0	1333.0	-0.794013888564445	--
Anastatica hierochuntica	Fruit				--
Anethum graveolens	Fruit	12630.0	13678.0	2.498859968309268	--
Anethum graveolens	Seed	12630.0	13678.0	-0.46418798189668253	USDA's Ag Handbook 8 and sequelae)
Angelica sinensis	Root				Jim Duke's personal files.
Annona squamosa	Fruit				--
Apium graveolens	Pt	200.0	4105.0		USDA's Ag Handbook 8 and sequelae)
Arachis hypogaea	Seed	31280.0	37022.0	0.5242827541673751	--
Arctium lappa	Root	1050.0	5250.0	-0.2760103779139148	USDA's Ag Handbook 8 and sequelae)
Armoracia rusticana	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Artemisia dracunculus	Root				--
Artemisia dracunculus	Leaf				--
Artocarpus altilis	Seed	4940.0	11300.0	-0.5648812397085541	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Asimina triloba	Fruit	240.0	2336.0	-0.526476223238861	--
Asparagus officinalis	Shoot	1430.0	18452.0	-1.0	--
Astragalus membranaceus	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Avena sativa	Seed	3000.0	13000.0	-0.492896993165164	Jim Duke's personal files.*
Averrhoa carambola	Fruit	110.0	1210.0	-0.8268225952793471	USDA's Ag Handbook 8 and sequelae)
Basella alba	Leaf	700.0	10145.0	-0.6221992811845254	--
Bertholletia excelsa	Seed	23900.0	24727.0	0.0036672769609157104	--
Beta vulgaris	Root	380.0	2997.0	-0.3886990633481032	USDA's Ag Handbook 8 and sequelae)
Bixa orellana	Seed		14260.0	-0.4395439633741807	--
Brassica oleracea var. sabellica l.	Leaf	1840.0	11840.0	-0.5060993286198086	--
Brassica oleracea var. gemmifera	Leaf	2030.0	14494.0	-0.3243121462559392	USDA's Ag Handbook 8 and sequelae)
Brassica napus var. napobrassica	Root	1480.0	14310.0	0.17714518801318105	USDA's Ag Handbook 8 and sequelae)
Brassica rapa	Leaf	840.0	17951.0	-0.0875230394617054	USDA's Ag Handbook 8 and sequelae)
Brassica rapa	Root	240.0	2950.0	-0.39104987036781336	--
Brassica oleracea var. viridis l.	Leaf	800.0	13112.0	-0.418972992535844	--
Brassica oleracea var. botrytis l.	Leaf	1450.0	15573.0	-0.25040545078848814	--
Brassica chinensis	Leaf	840.0	17951.0	-0.0875230394617054	--
Brassica oleracea	Stem	1050.0	11667.0		--
Brassica oleracea var. capitata l.	Leaf	690.0	9225.0	-0.6852151846414809	USDA's Ag Handbook 8 and sequelae)
Brassica nigra	Leaf	1810.0	26657.0	0.5087991947733539	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. italica	Leaf	1450.0	15573.0	-0.25040545078848814	USDA's Ag Handbook 8 and sequelae)
Brassica oleracea var. botrytis l.	Flower	960.0	12400.0		--
Cajanus cajan	Seed	11280.0	14530.0	-0.4281111712761129	--
Calathea allouia	Root	3385.0	3720.0	-0.3525366489810734	--
Camellia sinensis	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Canavalia ensiformis	Seed				--
Cannabis sativa	Plant				Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
Capsella bursa-pastoris	Plant				--
Capsicum frutescens	Fruit	960.0	7834.0	0.9400462931719672	USDA's Ag Handbook 8 and sequelae)
Capsicum annuum	Fruit	410.0	5592.0	0.34202092362066183	USDA's Ag Handbook 8 and sequelae)
Carica papaya	Fruit	100.0	895.0	-0.9108448929638525	USDA's Ag Handbook 8 and sequelae)
Carum carvi	Seed	12520.0	13900.0	-0.45478768617160453	Revised USDA data received 1993.
Castanea sativa	Seed	1451.0	3192.0	-0.9082037520460875	--
Castanea mollissima	Seed	4411.0	7852.0	-0.7108822291683241	--
Castanea dentata	Seed	3808.0	6778.0	-0.7563593355139717	--
Ceratonia siliqua	Seed		55460.0	1.305015423442096	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Chenopodium album	Plant	2530.0	16116.0	0.750908250842287	--
Cicer arietinum	Seed	11500.0	20560.0	-0.17277881441926457	--
Cichorium intybus	Leaf	660.0	14892.0	-0.29705091845608234	USDA's Ag Handbook 8 and sequelae)
Cichorium endivia	Leaf	620.0	9984.0	-0.6332270642894926	--
Citrullus lanatus	Fruit		6949.0	0.7039836472964519	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Citrullus lanatus	Seed		46600.0	0.929850467927722	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Citrus sinensis	Fruit	230.0	4908.0	0.15957250579145005	--
Citrus reticulata	Fruit	440.0	3546.0	-0.20372390514917343	USDA's Ag Handbook 8 and sequelae)
Citrus paradisi	Fruit	470.0	760.0	-0.9468544491143548	--
Cnidioscolus chayamansa	Leaf	6945.0	34720.0	1.06107879213578	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Coccinia grandis</i>	Flower				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cocos nucifera</i>	Seed	5460.0	10300.0	-0.6072249141458423	USDA's Ag Handbook 8 and sequelae)
<i>Cocos nucifera</i>	Endosperm				Jim Duke's personal files.
<i>Cocos nucifera</i>	Leaf				Jim Duke's personal files.
<i>Colocasia esculenta</i>	Leaf	2200.0	15340.0	-0.26636491329443446	--
<i>Colocasia esculenta</i>	Root	1030.0	3510.0	-0.3630402548138207	--
<i>Corchorus olitorius</i>	Leaf	1830.0	20185.0	0.06549601306311933	--
<i>Coriandrum sativum</i>	Leaf				--
<i>Coriandrum sativum</i>	Fruit				--
<i>Crocus sativus</i>	Bulb				--
<i>Cryptotaenia japonica</i>	Shoot				--
<i>Cryptotaenia japonica</i>	Root				--
<i>Cucumis sativus</i>	Fruit	340.0	8608.0	1.1465010817681804	--
<i>Cucurbita</i> spp	Fruit	500.0	7910.0	0.9603183395974352	--
<i>Cucurbita pepo</i>	Seed	40330.0	81280.0	2.3983290974128795	--
<i>Cucurbita foetidissima</i>	Seed	39900.0	143000.0	5.011780683682312	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
<i>Cucurbita pepo</i>	Fruit	370.0	6429.0	0.5652801717537763	--
<i>Daucus carota</i>	Root	430.0	3520.0	-0.36254008310749936	--
<i>Dioscorea pentaphylla</i>	Root	1120.0	6035.0	-0.2367468989676929	--
<i>Dryopteris marginalis</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Fagopyrum esculentum</i>	Seed		11910.0	-0.5390515983018082	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ficus carica	Fruit	170.0	814.0	-0.9324506266541539	USDA's Ag Handbook 8 and sequelae)
Foeniculum vulgare	Fruit	6800.0	7460.0	0.8402864857624274	--
Foeniculum vulgare	Seed	6800.0	7460.0	-0.7274809495477411	USDA's Ag Handbook 8 and sequelae)
Fragaria spp	Fruit	260.0	3084.0	-0.3269566084197814	USDA's Ag Handbook 8 and sequelae)
Ginkgo biloba	Seed	4200.0	11475.0	-0.5574710966820287	USDA's Ag Handbook 8 and sequelae)
Glycine max	Shoot				--
Glycine max	Seed	28310.0	30950.0	0.2671719629841607	USDA's Ag Handbook 8 and sequelae)
Harpagophytum procumbens	Root		840.0	-0.4965861004016072	--
Helianthus annuus	Seed	24030.0	82000.0	2.428816543007727	USDA's Ag Handbook 8 and sequelae)
Helianthus tuberosus	Tuber		11627.0	1.4137048510099204	Izidoost, 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.
Humulus lupulus	Fruit				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Ipomoea aquatica	Leaf	1480.0	19655.0	0.02919337302813411	--
Ipomoea batatas	Root	520.0	2835.0	-0.3968018449905083	--
Juglans cinerea	Seed	48620.0	50300.0	1.0865220633456887	--
Juglans nigra	Seed	36610.0	38280.0	0.5775510966094838	USDA's Ag Handbook 8 and sequelae)
Juglans regia	Seed				USDA's Ag Handbook 8 and sequelae)
Lablab purpureus	Seed	880.0	19365.0	-0.22337950537182405	--
Lactuca sativa	Leaf	710.0	11833.0	-0.5065787974504593	--
Lagenaria siceraria	Fruit	140.0	3140.0	-0.3120193110536471	--
Larrea tridentata	Plant		3100.0	-1.438287722239193	--
Lens culinaris	Sprout Seedling	6110.0	20365.0	-0.7923560723709357	USDA's Ag Handbook 8 and sequelae)
Lens culinaris	Seed	21680.0	24400.0	-0.010179104580077558	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lentinus edodes	Fruit				--
Lepidium meyenii	Root		9940.0	-0.04142984764922602	Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.
Linum usitatissimum	Seed		0.554	-1.0433413024542735	--
Lippia javanica	Plant				Neidlein, R., Staehle, R. 1974. Constituents of Lippia javanica. III. Deutsche Apot. Ztit., 114: 1588.
Lupinus albus	Seed	38770.0	44400.0	0.8366943841656878	--
Lycium barbarum	Fruit		1900.0	-0.6427737527323352	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Lycopersicon esculentum	Fruit	1.0	3637.0	-0.1794507969292052	--
Lycopodium clavatum	Pollen Or Spore				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Macadamia spp	Seed	8990.0	9250.0	-0.651685772304995	USDA's Ag Handbook 8 and sequelae)
Malus domestica	Fruit	60.0	373.0	-1.0500818434124615	USDA's Ag Handbook 8 and sequelae)
Mangifera indica	Fruit	190.0	3400.0	-0.24266757328230928	--
Manihot esculenta	Root	3140.0	9970.0	-0.039929332530262124	--
Medicago sativa	Plant				--
Melia azedarach	Seed				--
Mentha x piperita	Plant	1730.0	8105.0	-0.5964833395353818	USDA's Ag Handbook 8 and sequelae)
Mentha spicata	Essential Oil				--
Mentha spicata	Leaf	1510.0	10450.0	-0.6013081392776	USDA's Ag Handbook 8 and sequelae)
Momordica charantia	Seed		323.0	-1.0296877540066676	Jim Duke's personal files.
Moringa oleifera	Shoot	5320.0	24930.0	1.0	USDA's Ag Handbook 8 and sequelae)
Mucuna pruriens	Seed	12350.0	26180.0	0.06519263591829559	--
Murraya sp	Fruit	1080.0	3111.0	-0.31975469718968097	--
Musa x paradisiaca	Fruit	1080.0	3111.0	-0.31975469718968097	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Nasturtium officinale</i>	Herb	1500.0	30000.0	1.0	USDA's Ag Handbook 8 and sequelae)
<i>Nelumbo nucifera</i>	Rhizome	880.0	4210.0	1.0	--
<i>Nelumbo nucifera</i>	Seed	3380.0	10242.0	-0.609680847263205	--
<i>Nigella sativa</i>	Seed	41500.0	53050.0	1.2029671680482314	--
<i>Ocimum basilicum</i>	Leaf		6620.0	-0.863646085190795	USDA's Ag Handbook 8 and sequelae)
<i>Oenothera biennis</i>	Seed	14100.0	15048.0	-0.40617714791759757	--
<i>Opuntia ficus-indica</i>	Seed		27100.0	0.10414881640060081	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
<i>Opuntia ficus-indica</i>	Bud		4955.0		Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
<i>Pachyrhizus erosus</i>	Tuber	720.0	6635.0	-0.9938736961087227	--
<i>Paeonia officinalis</i>	Root				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<i>Panax quinquefolius</i>	Plant	11530.0	17615.0	1.003029083943788	--
<i>Panax ginseng</i>	Leaf				--
<i>Panax ginseng</i>	Root				--
<i>Papaver somniferum</i>	Seed	19950.0	21401.0	-0.1371677842175051	--
<i>Papaver bracteatum</i>	Seed	18300.0	21650.0	-0.12662420928262033	--
<i>Perideridia gairdneri</i>	Root		8954.0	-0.090746777892506	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>Persea americana</i>	Fruit	470.0	2293.0	-0.5379459337164284	--
<i>Phaseolus vulgaris</i>	Fruit	730.0	7503.0	0.8517561962399948	USDA's Ag Handbook 8 and sequelae)
<i>Phaseolus vulgaris</i>	Sprout Seedling	2280.0	24516.0	1.410637937281947	USDA's Ag Handbook 8 and sequelae)
<i>Phaseolus lunatus</i>	Seed	4580.0	15390.0	-0.391695611260045	USDA's Ag Handbook 8 and sequelae)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Phaseolus vulgaris	Seed	13370.0	15026.0	-0.40710870875521793	USDA's Ag Handbook 8 and sequelae)
Phoenix dactylifera	Fruit	620.0	2090.0	-0.5920936366686652	--
Phyllanthus emblica	Fruit	176.0	871.0	-0.917246591835053	--
Pinellia ternata	Tuber				--
Pinus pinea	Seed	46680.0	71600.0	1.988442328859929	--
Pinus edulis	Seed	22510.0	23920.0	-0.030504068309975933	USDA's Ag Handbook 8 and sequelae)
Pistacia vera	Seed	21860.0	22740.0	-0.0804696041459761	--
Pisum sativum	Seed	4280.0	20246.0	-0.1860747281925731	--
Pisum sativum	Fruit	1340.0	13254.0	2.385763288251394	--
Portulaca oleracea	Herb	520.0	10400.0	-1.0	--
Prunus domestica	Fruit	130.0	878.0	-0.9153794296642861	USDA's Ag Handbook 8 and sequelae)
Prunus cerasus	Fruit				--
Prunus persica	Fruit	180.0	1458.0	-0.7606717069436094	--
Prunus armeniaca	Fruit	450.0	3300.0	-0.2693413185789777	USDA's Ag Handbook 8 and sequelae)
Prunus dulcis	Seed	24950.0	26098.0	0.061720454614437946	USDA's Ag Handbook 8 and sequelae)
Psidium cattleianum	Fruit	150.0	775.0	-0.9428533873198546	--
Psidium guajava	Fruit	210.0	1512.0	-0.7462678844834085	USDA's Ag Handbook 8 and sequelae)
Psophocarpus tetragonolobus	Seed	18860.0	20576.0	-0.17210131562826794	--
Psophocarpus tetragonolobus	Leaf	1780.0	7689.0	-0.7904243451957023	--
Psophocarpus tetragonolobus	Tuber	4120.0	9671.0	0.4703507568264136	--
Psoralea esculenta	Root		7976.0	-0.13966357077072894	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.
Pyrus communis	Fruit	70.0	432.0	-1.0343443336874272	--
Raphanus sativus	Plant				--



Plant	Part	Low PPM	High PPM	StdDev	Reference
Rehmannia glutinosa	Root	42000.0	87000.0	3.8128933212626968	--
Ribes nigrum	Fruit Juice		35.0		--
Rosmarinus officinalis	Plant	1530.0	4745.0	-1.1616107572945837	USDA's Ag Handbook 8 and sequelae)
Sambucus canadensis	Fruit	470.0	2326.0	-0.5291435977685278	USDA's Ag Handbook 8 and sequelae)
Scutellaria baicalensis	Root				--
Secale cereale	Seed	8130.0	9130.0	-0.6567670132374697	USDA's Ag Handbook 8 and sequelae)
Sechium edule	Fruit	380.0	5430.0	0.29880945624005906	--
Senna obtusifolia	Seed		10200.0	-0.6114592815895712	--
Sesamum indicum	Seed	15800.0	39000.0	0.6080385422043314	--
Sinapis alba	Seed	17500.0	18725.0	-0.25047945701168856	--
Solanum melongena	Fruit	610.0	7559.0	0.8666934936061291	--
Solanum tuberosum	Tuber	950.0	6850.0	-0.8901819117276113	--
Spinacia oleracea	Plant	1620.0	19239.0	1.2761740025274024	USDA's Ag Handbook 8 and sequelae)
Spinacia oleracea	Leaf				--
Stachys officinalis	Shoot				--
Terminalia chebula	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Theobroma cacao	Seed		800.0	-1.009489821300081	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Trifolium pratense	Plant				--
Trigonella foenum-graecum	Seed	22230.0	27115.0	0.10478397151716012	--
Trigonella foenum-graecum	Leaf				--
Triticum aestivum	Seed	4000.0	12000.0	-0.5352406676024523	--
Urtica dioica	Plant				--
Urtica dioica	Leaf				Jim Duke's personal files.
Vaccinium corymbosum	Fruit	340.0	2210.0	-0.5600851423126632	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Valeriana officinalis	Rhizome				--
Valerianella locusta	Plant	910.0	12640.0	0.166270481755684	--
Vicia faba	Seed	4630.0	24370.0	-0.011449414813196206	USDA's Ag Handbook 8 and sequelae)
Vigna radiata	Seed	16720.0	18383.0	-0.26496099366924114	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Seed	2070.0	18500.0	-0.2600067837600784	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Fruit	1960.0	16131.0	3.1531669404365434	USDA's Ag Handbook 8 and sequelae)
Vigna angularis	Seed	12840.0	14834.0	-0.41523869424717724	--
Vigna radiata	Sprout Seedling	1970.0	20693.0	-0.6182818649110114	USDA's Ag Handbook 8 and sequelae)
Vigna unguiculata	Seed	16850.0	18401.0	-0.26419880752937	USDA's Ag Handbook 8 and sequelae)
Viscum album	Juice				--
Vitellaria paradoxa	Seed		5985.0	-0.7899378693427412	--
Vitis vinifera	Fruit	490.0	2520.0	-0.47739653189299114	USDA's Ag Handbook 8 and sequelae)
Zea mays	Seed	1310.0	5450.0	-0.8125917351666905	USDA's Ag Handbook 8 and sequelae)
Zingiber officinale	Tuber				--
Zingiber officinale	Root	430.0	2486.0	-0.41425783754112155	USDA's Ag Handbook 8 and sequelae)
Zingiber officinale	Rhizome	430.0	2486.0	-1.0	--