

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for STARCH

Plant	Part	Low PPM	High PPM	StdDev	Reference
Durio zibethinus	Fruit	80000.0	2857000.0	3.9069455904469006	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Manihot esculenta	Root	280000.0	828400.0	2.144576034243884	--
Xanthosoma sagittifolium	Root	257000.0	805640.0	2.049366336385531	--
Dioscorea bulbifera	Tuber		800000.0	1.411655513139338	--
Solanum tuberosum	Tuber	150000.0	800000.0	1.411655513139338	--
Triticum aestivum	Seed	542000.0	800000.0	1.9835674339821459	--
Coix lacryma-jobi	Seed	500000.0	790000.0	1.9430732029759523	--
Oryza sativa	Seed	722000.0	749000.0	1.7770468558505592	--
Amorphophallus campanulatus	Root	67200.0	747747.0	1.807188171266305	--
Dioscorea alata	Root	159000.0	743000.0	1.7873305071303822	--
Mangifera indica	Seed		728000.0	1.6920089707375527	--
Alocasia macrorrhiza	Root	215000.0	723900.0	1.7074313318626086	--
Psoralea esculenta	Root		698400.0	1.6007596580757903	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.
Maranta arundinacea	Rhizome	250000.0	695000.0	1.655042877754222	--
Perideridia gairdneri	Root		693000.0	1.5781703624503465	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.
Pinellia ternata	Tuber		690000.0	0.9475041199740651	--
Ginkgo biloba	Seed	407400.0	680000.0	1.497636661907824	--
Fagopyrum esculentum	Seed		670000.0	1.4571424309016308	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Cyrtosperma chamissonis</i>	Root	135000.0	655340.0	1.4206309414773437	--
<i>Hordeum vulgare</i>	Seed		620000.0	1.2546712758706633	--
<i>Avena sativa</i>	Seed	500000.0	600000.0	1.1736828138582762	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Zingiber officinale</i>	Root	35000.0	600000.0	1.18913249334548	--
<i>Aesculus hippocastanum</i>	Seed	300000.0	600000.0	1.1736828138582762	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Castanea sativa</i>	Seed	450000.0	580000.0	1.0926943518458894	--
<i>Nelumbo nucifera</i>	Rhizome	92500.0	570988.0	0.8675764759039429	--
<i>Piper nigrum</i>	Fruit	280000.0	565000.0	0.4063516312545475	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Pachyrhizus erosus</i>	Tuber	97200.0	551645.0	0.36370715632514383	--
<i>Lycoris radiata</i>	Bulb	200000.0	551000.0		--
<i>Curcuma longa</i>	Rhizome	300000.0	550000.0	0.7343043341593242	--
<i>Cucurbita foetidissima</i>	Root	259000.0	550000.0	0.9799723486654444	--
<i>Curcuma zedoaria</i>	Rhizome		500000.0	0.41680828464384206	--
<i>Iris x germanica</i>	Rhizome	200000.0	500000.0	0.41680828464384206	--
<i>Zingiber officinale</i>	Rhizome	123000.0	500000.0	0.41680828464384206	--
<i>Physostigma venenosum</i>	Seed	480000.0	500000.0	0.7687405037963416	--
<i>Pteridium aquilinum</i>	Rhizome		450000.0	0.09931223512836002	--
<i>Pisum sativum</i>	Seed	329000.0	434000.0	0.5014785791554647	--
<i>Piper methysticum</i>	Root		430000.0	0.47798800143335857	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Crotalaria juncea</i>	Seed		411000.0	0.40834184784121963	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Acorus calamus	Rhizome	250000.0	400000.0	-0.21818381438712206	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Pueraria montana	Root	130000.0	400000.0	0.35249191462533713	--
Vigna unguiculata	Seed	390000.0	400000.0	0.3637981937344068	--
Aframomum melegueta	Seed	220000.0	400000.0	0.3637981937344068	Wealth of India.
Eleocharis dulcis	Tuber	70000.0	400000.0	-0.2761677347343818	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Rumex hymenosepalus	Plant	250000.0	400000.0	1.4821573939836963	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Elettaria cardamomum	Seed	200000.0	400000.0	0.3637981937344068	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Vigna unguiculata	Seed	390000.0	400000.0	0.3637981937344068	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Curcuma xanthorrhiza	Rhizome	300000.0	400000.0	-0.21818381438712206	--
Cephaelis ipecacuanha	Root	300000.0	400000.0	0.35249191462533713	--
Althaea officinalis	Root	39960.0	370000.0	0.2269958278173157	--
Simaba cedron	Seed		360000.0	0.2018212697096329	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ceratonia siliqua	Fruit		350000.0	0.0779800338608496	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Jateorhiza palmata	Root	300000.0	350000.0	0.1433317699453014	--
Cola acuminata	Seed		340000.0	0.12083280769724597	--
Costus speciosus	Rhizome		333333.0	-0.6415139970480945	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Panax quinquefolius	Plant	80000.0	320000.0	0.9009192002645995	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Myristica fragrans	Aril		317000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Bletilla striata	Tuber		304800.0	-0.677869667728327	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Myristica fragrans	Seed		300000.0	-0.04114411632752793	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Lens culinaris	Seed		285000.0	-0.10188546283681814	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Vigna aconitifolia	Seed		266000.0	-0.17882450174858575	--
Helianthus tuberosus	Tuber		262600.0	-0.8559350203790045	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.
Colocasia esculenta	Root	245000.0	262000.0	-0.2247900846915615	--
Smilax officinalis	Root	52500.0	250000.0	-0.2749885194147701	--
Alpinia officinarum	Rhizome	200000.0	250000.0	-1.1706719629335678	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Arracacia xanthorrhiza	Root	100000.0	250000.0	-0.2749885194147701	--
Smilax spp	Root	52500.0	250000.0	-0.2749885194147701	--
Aconitum napellus	Root		250000.0	-0.2749885194147701	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cycas revoluta	Seed	68000.0	243700.0	-0.2691266368923972	--
Armoracia rusticana	Root	39600.0	220000.0	-0.40048460622279153	--
Colchicum autumnale	Tuber		210000.0	-1.0778837774743986	--
Ulmus rubra	Bark	13120.0	210000.0	1.8603586442275013	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Bactris gasipaes	Seed		208000.0	-0.4136910415845079	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Phoenix dactylifera	Fruit		206000.0	-0.14195257090516208	Abstract (See species file)
Rauvolfia serpentina	Seed	126000.0	203000.0	-0.43393815708760464	--
Ipomoea batatas	Root	118000.0	201000.0	-0.4799654612012051	--
Sesamum indicum	Seed	150000.0	200000.0	-0.44608642638946266	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Paeonia officinalis	Root	140000.0	200000.0	-0.48414866409480584	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Glycyrrhiza glabra	Root	7850.0	200000.0	-0.48414866409480584	--
Dioscorea villosa	Root	48000.0	200000.0	-0.48414866409480584	--
Rosa canina	Fruit	33660.0	180000.0	-0.18166262454346976	--
Crataegus laevigata	Fruit	41850.0	180000.0	-0.18166262454346976	--
Crataegus rhipidophylla	Fruit	150000.0	180000.0	-0.18166262454346976	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Hydrastis canadensis	Root	27700.0	180000.0	-0.5678127219668201	--
Aegle marmelos	Seed		175000.0	-0.5473220039049463	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Arisaema triphyllum	Tuber	100000.0	170000.0	-1.2466661022617707	--
Prosopis juliflora	Fruit		163600.0	-0.20671050453071	--
Gentiana lutea	Root	35200.0	160000.0	-0.6514767798388345	--
Rheum officinale	Root	150000.0	160000.0	-0.6514767798388345	--
Pueraria pseudohirsuta	Root	100000.0	150000.0	-0.6933088087748416	--
Trigonella foenum-graecum	Seed	19500.0	150000.0	-0.6485575814204301	--
Abelmoschus moschatus	Seed	133500.0	150000.0	-0.6485575814204301	Wealth of India.
Ananas comosus	Stem	100000.0	150000.0	1.0	Wealth of India.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Calathea allouia	Root	130000.0	150000.0	-0.6933088087748416	--
Angelica sinensis	Root	33000.0	150000.0	-0.6933088087748416	--
Cyphomandra betacea	Fruit	10000.0	140000.0	-0.2427550147562508	--
Caulophyllum thalictroides	Root	15400.0	140000.0	-0.7351408377108487	--
Psidium guajava	Seed	130000.0	132000.0	-0.7214471972315784	--
Crocus sativus	Silk Stigma Style	119900.0	130300.0		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Phytelephas aequatorialis	Mesocarp	16900.0	129020.0		KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
Terminalia bellirica	Leaf	99800.0	127000.0	2.4401501282208553	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Echinacea purpurea	Root	30120.0	120000.0	-0.818804895582863	--
Stellaria media	Plant	9960.0	120000.0	-0.5521762840331416	--
Parthenium integrifolium	Root	19200.0	120000.0	-0.818804895582863	--
Ruscus aculeatus	Root	36240.0	120000.0	-0.818804895582863	--
Panax ginseng	Root	25440.0	120000.0	-0.818804895582863	--
Arctium lappa	Root	28200.0	120000.0	-0.818804895582863	--
Hibiscus sabdariffa	Seed		111000.0	-0.8064850823445846	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Carthamus tinctorius	Flower	14000.0	100000.0		--
Coriandrum sativum	Fruit		100000.0	-0.30384740496903184	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cyperus rotundus	Root		92000.0	-0.9359345766036831	--
Theobroma cacao	Seed	50000.0	90000.0	-0.891522967457591	--
Berberis vulgaris	Bark		90000.0	0.06580046651608526	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Abelmoschus esculentus	Seed		89200.0	-0.8947625059380864	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Allium sativum var. sativum	Root	29600.0	80000.0	-0.9861330113268916	--
Cimicifuga racemosa	Root	16800.0	80000.0	-0.9861330113268916	--
Cnicus benedictus	Plant	10640.0	80000.0	-0.8427953808926898	--
Manilkara zapota	Fruit	29800.0	64000.0	-0.3588305561605348	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
Polypodium vulgare	Rhizome		63000.0	-2.358107188121471	--
Theobroma cacao	Hb		60000.0		--
Myrica cerifera	Bark	13080.0	60000.0	-0.3828390779117685	--
Turnera diffusa	Branches		60000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Medicago sativa	Plant	11280.0	60000.0	-0.988104929322464	--
Paullinia cupana	Seed	50000.0	60000.0	-1.0130056604761712	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Viburnum prunifolium	Bark		55000.0	-0.4576123353164109	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Turnera diffusa	Leaf	10500.0	50000.0	0.38191039251765546	--
Musa x paradisiaca	Stem		50000.0	-1.0	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pimpinella anisum	Seed		50000.0	-1.0534998914823648	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Carum carvi	Seed		45000.0	-1.0737470069854615	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Carum carvi	Fruit		45000.0	-0.3878494415116057	--
Linum usitatissimum	Seed	2000.0	39000.0	-1.0980435455891777	Cunane, S. and Thompson, L. U., eds. 1995. Flaxseed in Human Nutrition. AOCS Press, Champaign IL. 384 pp.
Prunus persica	Seed		36000.0	-1.1101918148910357	--
Piper betel	Leaf	10000.0	31000.0	-0.12596694486365365	--
Astragalus gummifer	Gum	10000.0	30000.0		--
Ananas comosus	Leaf		30000.0	-0.15269733104161728	Wealth of India.
Melilotus alba	Seed		30000.0	-1.1344883534947519	--
Daucus carota	Root	14800.0	25200.0	-1.2153725298962108	--
Teucrium montanum	Leaf		22000.0	-0.3665404204653262	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Nicotiana tabacum	Leaf	10000.0	20000.0	-0.4200011928212534	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Musa x paradisiaca	Fruit	7000.0	17500.0	-0.4298504597828927	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Stellaria media	Root		15300.0	-1.2567862385428579	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ribes uva-crispa	Fruit		15000.0	-0.4336687341711915	--
Glycyrrhiza glabra	Shoot		15000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Brunfelsia uniflorus	Bark		13000.0	-1.0857076975154065	--
Glycine max	Seed		10000.0	-1.2154768155071387	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Lycopersicon esculentum	Fruit	120.0	10000.0	-0.44130528294778915	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Phyllanthus emblica	Fruit	1800.0	8910.0	-0.4429700505810874	--
Camellia sinensis	Leaf		5000.0	-0.820956985490708	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Senna obtusifolia	Seed		2000.0	-1.2478722003120934	--
Colocasia esculenta	Leaf		700.0	-0.9358976460559516	--
Ananas comosus	Fruit		19.0	-0.4565493616156333	--
Phytelephas aequatorialis	Seed		1.0	-1.2559669970902316	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(AREACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
Punica granatum	Seed		0.0	-1.2559710465133322	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Levisticum officinale	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Tulipa gesneriana	Bulb				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pistacia lentiscus	Seed				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Polygonum multiflorum	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
Cypripedium pubescens	Root				--
Iris versicolor	Rhizome				--
Zea mays	Seed				--
Uncaria catechu	Plant				--
Melia azedarach	Fruit				--
Andira inermis	Bark				--
Paeonia moutan	Root Bark				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Gloriosa superba	Bulb				--
Lindera benzoin	Plant				--
Atropa bella-donna	Root				--
Salix alba	Bark				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Sanguinaria canadensis	Plant				--
Paeonia suffruticosa	Root Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cimicifuga racemosa	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Glycine max	Tissue Culture				--
Caladium bicolor	Tuber				--
Drynaria fortunei	Rhizome				--
Hydnocarpus wightiana	Fruit				--
Oenothera biennis	Seed				--
Myrica cerifera	Plant				--
Krameria triandra	Root				--
Chimaphila umbellata	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Phytolacca americana	Root				--
Cinchona spp	Bark				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Ipomoea purga	Tuber				--
Jatropha curcas	Seed				--
Withania somnifera	Root				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
Actaea racemosa	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
Hydrangea arborescens	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Panax ginseng	Rhizome				--
Quillaja saponaria	Bark				--
Sassafras albidum	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Castanospermum australe	Seed				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Viscum album	Stem				--
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