

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for STARCH

Plant	Part	Low PPM	High PPM	StdDev	Reference
Oryza sativa	Seed	722000.0	749000.0	1.7770468558505592	--
Triticum aestivum	Seed	542000.0	800000.0	1.9835674339821459	--
Avena sativa	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.
Coix lacryma-jobi	Seed	500000.0	790000.0	1.9430732029759523	--
Physostigma venenosum	Seed	480000.0	500000.0	0.7687405037963416	--
Castanea sativa	Seed	450000.0	580000.0	1.0926943518458894	--
Ginkgo biloba	Seed	407400.0	680000.0	1.497636661907824	--
Vigna unguiculata	Seed	390000.0	400000.0	0.3637981937344068	--
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.
Pisum sativum	Seed	329000.0	434000.0	0.5014785791554647	--
Curcuma longa	Rhizome	300000.0	550000.0	0.7343043341593242	--
Jateorhiza palmata	Root	300000.0	350000.0	0.1433317699453014	--
Curcuma xanthorrhiza	Rhizome	300000.0	400000.0	-0.21818381438712206	--
Aesculus hippocastanum	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.
Cephaelis ipecacuanha	Root	300000.0	400000.0	0.35249191462533713	--
Manihot esculenta	Root	280000.0	828400.0	2.144576034243884	--
Piper nigrum	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.
Cucurbita foetidissima	Root	259000.0	550000.0	0.9799723486654444	--
Xanthosoma sagittifolium	Root	257000.0	805640.0	2.049366336385531	--
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Maranta arundinacea	Rhizome	250000.0	695000.0	1.655042877754222	--
Rumex hymenosepalus	Plant	250000.0	400000.0	1.4821573939836963	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Colocasia esculenta	Root	245000.0	262000.0	-0.2247900846915615	--
Aframomum melegueta	Seed	220000.0	400000.0	0.3637981937344068	Wealth of India.
Alocasia macrorrhiza	Root	215000.0	723900.0	1.7074313318626086	--
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.
Iris x germanica	Rhizome	200000.0	500000.0	0.41680828464384206	--
Lycoris radiata	Bulb	200000.0	551000.0		--
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.
Dioscorea alata	Root	159000.0	743000.0	1.7873305071303822	--
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.
Rheum officinale	Root	150000.0	160000.0	-0.6514767798388345	--
Solanum tuberosum	Tuber	150000.0	800000.0	1.411655513139338	--
Crataegus rhipidophylla	Fruit	150000.0	180000.0	-0.18166262454346976	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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.
Cyrtosperma chamissonis	Root	135000.0	655340.0	1.4206309414773437	--
Abelmoschus moschatus	Seed	133500.0	150000.0	-0.6485575814204301	Wealth of India.
Pueraria montana	Root	130000.0	400000.0	0.35249191462533713	--
Calathea allouia	Root	130000.0	150000.0	-0.6933088087748416	--
Psidium guajava	Seed	130000.0	132000.0	-0.7214471972315784	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rauvolfia serpentina	Seed	126000.0	203000.0	-0.43393815708760464	--
Zingiber officinale	Rhizome	123000.0	500000.0	0.41680828464384206	--
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.
Ipomoea batatas	Root	118000.0	201000.0	-0.4799654612012051	--
Arracacia xanthorrhiza	Root	100000.0	250000.0	-0.2749885194147701	--
Pueraria pseudohirsuta	Root	100000.0	150000.0	-0.6933088087748416	--
Arisaema triphyllum	Tuber	100000.0	170000.0	-1.2466661022617707	--
Ananas comosus	Stem	100000.0	150000.0	1.0	Wealth of India.
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.
Pachyrhizus erosus	Tuber	97200.0	551645.0	0.36370715632514383	--
Nelumbo nucifera	Rhizome	92500.0	570988.0	0.8675764759039429	--
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.
Panax quinquefolius	Plant	80000.0	320000.0	0.9009192002645995	--
Eleocharis dulcis	Tuber	70000.0	400000.0	-0.2761677347343818	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Cycas revoluta	Seed	68000.0	243700.0	-0.2691266368923972	--
Amorphophallus campanulatus	Root	67200.0	747747.0	1.807188171266305	--
Smilax officinalis	Root	52500.0	250000.0	-0.2749885194147701	--
Smilax spp	Root	52500.0	250000.0	-0.2749885194147701	--
Theobroma cacao	Seed	50000.0	90000.0	-0.891522967457591	--
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.
Dioscorea villosa	Root	48000.0	200000.0	-0.48414866409480584	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Crataegus laevigata</i>	Fruit	41850.0	180000.0	-0.18166262454346976	--
<i>Althaea officinalis</i>	Root	39960.0	370000.0	0.2269958278173157	--
<i>Armoracia rusticana</i>	Root	39600.0	220000.0	-0.40048460622279153	--
<i>Ruscus aculeatus</i>	Root	36240.0	120000.0	-0.818804895582863	--
<i>Gentiana lutea</i>	Root	35200.0	160000.0	-0.6514767798388345	--
<i>Zingiber officinale</i>	Root	35000.0	600000.0	1.18913249334548	--
<i>Rosa canina</i>	Fruit	33660.0	180000.0	-0.18166262454346976	--
<i>Angelica sinensis</i>	Root	33000.0	150000.0	-0.6933088087748416	--
<i>Echinacea purpurea</i>	Root	30120.0	120000.0	-0.818804895582863	--
<i>Manilkara zapota</i>	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.
<i>Allium sativum</i> var. <i>sativum</i>	Root	29600.0	80000.0	-0.9861330113268916	--
<i>Arctium lappa</i>	Root	28200.0	120000.0	-0.818804895582863	--
<i>Hydrastis canadensis</i>	Root	27700.0	180000.0	-0.5678127219668201	--
<i>Panax ginseng</i>	Root	25440.0	120000.0	-0.818804895582863	--
<i>Trigonella foenum-graecum</i>	Seed	19500.0	150000.0	-0.6485575814204301	--
<i>Parthenium integrifolium</i>	Root	19200.0	120000.0	-0.818804895582863	--
<i>Phytelephas aequatorialis</i>	Mesocarp	16900.0	129020.0		KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
<i>Cimicifuga racemosa</i>	Root	16800.0	80000.0	-0.9861330113268916	--
<i>Caulophyllum thalictroides</i>	Root	15400.0	140000.0	-0.7351408377108487	--
<i>Daucus carota</i>	Root	14800.0	25200.0	-1.2153725298962108	--
<i>Carthamus tinctorius</i>	Flower	14000.0	100000.0		--
<i>Ulmus rubra</i>	Bark	13120.0	210000.0	1.8603586442275013	--
<i>Myrica cerifera</i>	Bark	13080.0	60000.0	-0.3828390779117685	--
<i>Medicago sativa</i>	Plant	11280.0	60000.0	-0.988104929322464	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cnicus benedictus	Plant	10640.0	80000.0	-0.8427953808926898	--
Turnera diffusa	Leaf	10500.0	50000.0	0.38191039251765546	--
Cyphomandra betacea	Fruit	10000.0	140000.0	-0.2427550147562508	--
Astragalus gummifer	Gum	10000.0	30000.0		--
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.
Piper betel	Leaf	10000.0	31000.0	-0.12596694486365365	--
Stellaria media	Plant	9960.0	120000.0	-0.5521762840331416	--
Glycyrrhiza glabra	Root	7850.0	200000.0	-0.48414866409480584	--
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.
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.
Phyllanthus emblica	Fruit	1800.0	8910.0	-0.4429700505810874	--
Lycopersicon esculentum	Fruit	120.0	10000.0	-0.44130528294778915	--
Colchicum autumnale	Tuber		210000.0	-1.0778837774743986	--
Theobroma cacao	Hb		60000.0		--
Curcuma zedoaria	Rhizome		500000.0	0.41680828464384206	--
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.
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.
Levisticum officinale	Root				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	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.
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.
Mangifera indica	Seed		728000.0	1.6920089707375527	--
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
Ananas comosus	Fruit		19.0	-0.4565493616156333	--
Polygonum multiflorum	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
Cypripedium pubescens	Root				--
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.
Iris versicolor	Rhizome				--
Zea mays	Seed				--
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.
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.
Phytelephas aequatorialis	Seed		1.0	-1.2559669970902316	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
Uncaria catechu	Plant				--
Berberis vulgaris	Bark		90000.0	0.06580046651608526	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
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.
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.
Crotalaria juncea	Seed		411000.0	0.40834184784121963	--
Vigna aconitifolia	Seed		266000.0	-0.17882450174858575	--
Melia azedarach	Fruit				--
Andira inermis	Bark				--
Paeonia moutan	Root Bark				--
Gloriosa superba	Bulb				--
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.
Lindera benzoin	Plant				--
Phoenix dactylifera	Fruit		206000.0	-0.14195257090516208	Abstract (See species file)
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.
Carum carvi	Fruit		45000.0	-0.3878494415116057	--
Polypodium vulgare	Rhizome		63000.0	-2.358107188121471	--
Prosopis juliflora	Fruit		163600.0	-0.20671050453071	--
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.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Prunus persica	Seed		36000.0	-1.1101918148910357	--
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.
Ananas comosus	Leaf		30000.0	-0.15269733104161728	Wealth of India.
Piper methysticum	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.
Melilotus alba	Seed		30000.0	-1.1344883534947519	--
Atropa bella-donna	Root				--
Salix alba	Bark				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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.
Hordeum vulgare	Seed		620000.0	1.2546712758706633	--
Sanguinaria canadensis	Plant				--
Senna obtusifolia	Seed		2000.0	-1.2478722003120934	--
Brunfelsia uniflorus	Bark		13000.0	-1.0857076975154065	--
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.
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.
Paeonia suffruticosa	Root Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Pinellia ternata	Tuber		690000.0	0.9475041199740651	--
Cimicifuga racemosa	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Glycine max	Tissue Culture				--
Dioscorea bulbifera	Tuber		800000.0	1.411655513139338	--
Perideridia gairdneri	Root		693000.0	1.5781703624503465	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	Leaf		700.0	-0.9358976460559516	--
Caladium bicolor	Tuber				--
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.
Drynaria fortunei	Rhizome				--
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.
Ribes uva-crispa	Fruit		15000.0	-0.4336687341711915	--
Hydnocarpus wightiana	Fruit				--
Oenothera biennis	Seed				--
Myrica cerifera	Plant				--
Pteridium aquilinum	Rhizome		450000.0	0.09931223512836002	--
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.
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.
Krameria triandra	Root				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Chimaphila umbellata	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
Phytolacca americana	Root				--
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.
Cinchona spp	Bark				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
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.
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.
Actaea racemosa	Plant				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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.
Cola acuminata	Seed		340000.0	0.12083280769724597	--
Hydrangea arborescens	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
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.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Panax ginseng	Rhizome				--
Cyperus rotundus	Root		92000.0	-0.9359345766036831	--
Quillaja saponaria	Bark				--
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.
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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