

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Ipomoea batatas

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
53	BETA-CAROTENE	Root	0.1	476.0	2.607235614900618	--
0	ASH	Leaf	12000.0	259000.0	2.4692411269823733	--
15	FIBER	Leaf	12000.0	274000.0	1.3907596776576763	--
0	KILOCALORIES	Root	990.0	3920.0	1.218882937493891	--
0	CARBOHYDRATES	Root	242800.0	925000.0	1.2187804659909915	--
7	CHLORINE	Root		850.0	1.0013802629067674	--
0	URONIC-ACID	Root		18000.0	1.0	--
0	CAROTENOIDS	Root	30.0	350.0	0.9999999999999999	--
11	PANTOTHENIC-ACID	Root	5.0	24.0	0.940834200836138	--
8	TYROSINE	Root	460.0	2504.0	0.7993355633604495	--
0	KILOCALORIES	Leaf	420.0	3500.0	0.776809359309165	--
0	SUGAR	Root	23800.0	97000.0	0.7594795486778012	--
15	METHIONINE	Root	230.0	1510.0	0.7466864326342412	--
7	PHENYLALANINE	Root	720.0	3645.0	0.6767508997727288	--
15	RIBOFLAVIN	Root	0.3	7.0	0.6402129373397545	--
0	PROLINE	Root	710.0	2840.0	0.5933519059372906	--
0	PROTEIN	Leaf	10300.0	271000.0	0.5901277894389811	--
14	POTASSIUM	Leaf	5300.0	42256.0	0.5260038921083271	--
53	BETA-CAROTENE	Leaf	1.8	345.0	0.3645173977751364	--
27	LINOLEIC-ACID	Root	1110.0	4087.0	0.35977651924513043	--
0	WATER	Leaf	830000.0	878000.0	0.35103634388895516	--
31	THIAMIN	Leaf	0.8	9.8	0.31163464539186214	--
0	WATER	Root	682000.0	806000.0	0.24057143013170218	--
4	PHOSPHORUS	Leaf	300.0	6090.0	0.2057977968129382	--
0	VIT-B-6	Root	2.0	10.0	0.12441308239603659	--
0	CARBOHYDRATES	Leaf	80000.0	620000.0	0.06481646388282636	--
1	SODIUM	Root	10.0	1229.0	0.059468347766452816	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	LEUCINE	Root	890.0	4455.0	0.05838947607697155	--
3	ASPARTIC-ACID	Root	2730.0	10383.0	0.056200349494124	--
112	ASCORBIC-ACID	Root	201.0	1186.0	0.03199677935562381	--
0	FAT	Leaf	2000.0	58000.0	0.03064519993255828	--
1	SERINE	Root	850.0	3400.0	0.020896386208142517	--
6	IRON	Leaf	10.0	365.0	0.00460105555364523	--
14	POTASSIUM	Root	1970.0	15740.0	-0.0028398340181484644	--
9	OXALIC-ACID	Root		1000.0	-0.020980523283072386	--
28	CALCIUM	Leaf	370.0	17900.0	-0.0367042886315002	--
12	GLYCINE	Root	580.0	2725.0	-0.045404847534055576	--
112	ASCORBIC-ACID	Leaf	210.0	4234.0	-0.05105884918957045	--
3	VALINE	Root	830.0	3976.0	-0.0555480623904639	--
3	ALANINE	Root	300.0	3314.0	-0.06296297691934533	--
15	RIBOFLAVIN	Leaf	2.6	19.0	-0.08879929649922484	--
4	PUFA	Root	1320.0	4860.0	-0.11060779514837861	--
29	TRYPTOPHAN	Root	200.0	800.0	-0.13799483930633563	--
31	THIAMIN	Root	0.6	5.1	-0.1400609316766379	--
4	BORON	Root	0.8	20.0	-0.14974023395860875	--
4	THREONINE	Root	720.0	3019.0	-0.20658975958591963	--
0	SFA	Root	640.0	2356.0	-0.22206501794771685	--
3	ISOLEUCINE	Root	580.0	3019.0	-0.23488190538521111	--
15	ALPHA-LINOLENIC-ACID	Root	200.0	736.0	-0.2437751715832325	--
2	CYSTINE	Root	130.0	760.0	-0.24507407240529303	--
4	PHOSPHORUS	Root	261.0	2000.0	-0.26668155573875507	--
0	FAT	Root	1400.0	14000.0	-0.29612944914963996	--
13	PALMITIC-ACID	Root	580.0	2135.0	-0.3002378447271569	--
5	ALUMINUM	Root		8.0	-0.30818775470068255	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
6	IRON	Root	4.0	64.0	-0.34867461388326615	--
8	STEARIC-ACID	Root	60.0	221.0	-0.35420479596540605	--
39	NIACIN	Leaf	7.0	68.0	-0.3588352402371107	--
14	MANGANESE	Root	1.0	15.0	-0.36675940606941065	--
14	ARGININE	Root	520.0	2835.0	-0.3968018449905083	--
4	LYSINE	Root	810.0	3280.0	-0.41958553714330665	--
5	STARCH	Root	118000.0	201000.0	-0.4799654612012051	--
12	COPPER	Root	1.5	7.0	-0.5225828267832762	--
28	CALCIUM	Root	203.0	2300.0	-0.5588491513502045	--
18	OLEIC-ACID	Root	110.0	405.0	-0.559814902951939	--
1	SODIUM	Leaf	50.0	400.0	-0.5762421497400187	--
7	HISTIDINE	Root	300.0	1200.0	-0.5766085870920526	--
77	ZINC	Root	2.0	11.0	-0.5771715064818157	--
0	PROTEIN	Root	10000.0	65982.0	-0.5887764849984052	--
4	CALCIUM-OXALATE	Root		320.0	-0.6169293409646417	--
14	SULFUR	Root	130.0	610.0	-0.6239176728311907	--
39	NIACIN	Root	6.0	26.0	-0.7024986278952605	--
8	GLUTAMIC-ACID	Root	1590.0	6360.0	-0.7513719508455532	--
13	MUFA	Root	110.0	405.0	-0.7922834164404721	--
0	ASH	Root	7000.0	36064.0	-0.8993491308917021	--
93	TOCOPHEROL	Leaf		81.0	-0.942227422644497	--
24	PECTIN	Root		30000.0	-0.9673041612432094	--
65	MAGNESIUM	Root	95.0	710.0	-0.9852162272801263	--
0	PHYTIN	Root		10500.0	-1.0	--
12	IODINE	Root		0.045	-1.0	--
15	FOLACIN	Root	0.1	0.6	-1.088722426606504	--
0	OXALATE	Leaf		3700.0	-1.1007425750551592	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	PHYTOSTEROLS	Root	120.0	442.0	-1.158029669817619	--
15	FIBER	Root	8000.0	32000.0	-1.2461521780736575	--
65	MAGNESIUM	Leaf		620.0	-1.3536871082583806	--
2	NEO-CHLOROGENIC-ACID	Root				--
77	CHLOROGENIC-ACID	Root				--
0	TRANS-CINNAMIC-ACID	Root				--
22	ISOQUERCITRIN	Root				--
3	PEONIDIN	Plant				--
0	FURAN-BETA-CARBONIC-ACID	Root				--
93	TOCOPHEROL	Root		40.0		--
0	BATATIC-ACID	Root				--
4	ISOCHLOROGENIC-ACID	Root				--
0	SKIMMINE	Root				--
0	ZETA-CAROTENE	Root	0.5	6.0		--
0	PAEONIDIN-3-(CAFFEYOYLSOPHOROSIDE)-5-GLUCOSIDE	Root				--
0	PHYTOFLUENE	Root	0.6	7.0		--
0	IPOMOEANINE	Root				--
3	SCOPOLIN	Root				--
0	PHYTOENE	Root	0.8	9.0		--
0	IPOMOEAMARONE	Root				--
0	CYANIDIN-3-DICAFFEOYLSOPHOROSIDE-5-GLUCOSIDE	Plant				--
102	CAFFEIC-ACID	Root				--
0	CYANIDIN-3-(CAFFEYOYLSOPHOROSIDE)-5-GLUCOSIDE	Root				--
176	QUERCETIN	Root				--
10	SQUALENE	Root				--