

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Rheum rhabarbarum

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	WATER	Stem	927000.0	950000.0	0.7123607071942658	--
0	CARBOHYDRATES	Leaf	41000.0	683000.0	0.5658312147663944	--
0	CARBOHYDRATES	Pt	37000.0	774000.0	1.3752042318809758	--
0	ANTHRONES	Leaf	10000.0	15000.0		--
0	ASH	Leaf	10000.0	194000.0	1.3240209249216413	--
0	ASH	Pt	8000.0	160000.0	0.30828136199004014	--
15	FIBER	Leaf	7000.0	125000.0	-0.4517961850604935	--
0	PROTEIN	Leaf	7000.0	276000.0	0.6400076205673125	--
9	OXALIC-ACID	Pt	4400.0	13360.0		--
0	PROTEIN	Pt	4000.0	115000.0	-0.22844433735136238	--
15	FIBER	Pt	3000.0	135000.0	-0.9553967815145555	--
9	OXALIC-ACID	Leaf	3000.0	11000.0	-0.15378792840048167	--
14	POTASSIUM	Pt	2510.0	66400.0	0.8791900029288348	--
32	ALPHA-TOCOPHEROL	Leaf	1197.0	1238.0	3.0740595421236994	--
0	NITROGEN	Pt	1100.0	22000.0		--
0	FAT	Pt	1000.0	32000.0	1.0	--
0	FAT	Leaf	1000.0	65000.0	0.17013271456214213	--
28	CALCIUM	Pt	600.0	18462.0	0.664932181626536	--
28	CALCIUM	Leaf	470.0	14400.0	-0.27585104748703904	--
4	PHOSPHORUS	Leaf	160.0	3472.0	-0.2758801089590869	--
112	ASCORBIC-ACID	Leaf	110.0	1833.0	-0.2738410541815012	--
4	PHOSPHORUS	Pt	100.0	3462.0	-0.35624352955446276	--
65	MAGNESIUM	Pt	90.0	1975.0	-1.0	--
112	ASCORBIC-ACID	Pt	80.0	2581.0	-0.38297347254735453	--
14	SULFUR	Pt	62.0	1240.0		--
1	SODIUM	Pt	20.0	855.0	-0.7343099948033504	--
6	IRON	Leaf	3.0	250.0	-0.28689375971144965	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
4	SILICON	Pt	3.0	200.0		--
39	NIACIN	Pt	2.0	57.0	0.7071067811865468	--
32	ALPHA-TOCOPHEROL	Pt	2.0	48.0	-1.0	--
14	MANGANESE	Pt	2.0	35.0	1.0	--
15	LUTEIN	Pt	1.7	34.0		--
0	RUBIDIUM	Pt	1.1	58.0		--
39	NIACIN	Leaf	1.0	33.0	-0.7845608648828445	--
0	BROMINE	Pt	1.0	20.0		--
5	ALUMINUM	Pt	1.0	80.0		--
77	ZINC	Pt	1.0	46.0		--
6	IRON	Pt	1.0	154.0	-0.14075747559182158	--
11	PANTOTHENIC-ACID	Pt	0.8	13.3	-1.0000000000000002	--
53	BETA-CAROTENE	Pt	0.6	12.0	-0.6169476493252427	--
15	RIBOFLAVIN	Pt	0.3	14.0	-0.25365954257404544	--
53	BETA-CAROTENE	Leaf	0.3	5.0	-1.1161644155883124	--
31	THIAMIN	Pt	0.2	6.5	-0.07643467149674896	--
31	THIAMIN	Leaf	0.2	3.3	-1.0429896966109122	--
12	COPPER	Pt	0.2	5.2	-0.9999999999999998	--
15	RIBOFLAVIN	Leaf	0.2	3.0	-0.1637990663745501	--
3	NICKEL	Pt	0.1	4.0		--
0	FLUORINE	Pt	0.1	4.0		--
4	BORON	Pt	0.1	36.0		--
15	FOLACIN	Pt	0.06	0.1		--
0	LEAD	Pt	0.02	1.0		--
3	CADMIUM	Pt	0.005	0.6		--
2	COBALT	Pt	0.005	0.1		--
24	CHROMIUM	Pt	0.005	0.1		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	MERCURY	Pt	0.002	0.14		--
0	CHRYSOPHANOL-8-O-GLUCOSIDE	Root				--
0	6-O-GALLOYL-GLUCOSE	Root				--
0	RHAPONTIC-ACID	Root				--
24	VANILLIC-ACID	Pt		4.0		--
30	(+)-CATECHIN	Root				--
0	PHYSCION-8-O-GLUCOSIDE	Root				--
0	GLYCOCHRYSARONE	Root				--
58	EMODIN	Root				--
1	SENNOSIDE-A	Root				--
0	CHRYSOPHANOL-1-O-GLUCOSIDE	Root				--
0	6-HYDROXYMUSIZIN-8-O-GLUCOSIDE	Root				--
0	QUERCETIN-3-O-RUTINOSIDE	Pt				--
3	LINDLEYIN	Root				--
0	TORACHRYSONE-8-O-GLUCOSIDE	Root				--
5	PHYSCION	Root				--
0	DIHYDROXYGLUTAMIC-ACID	Leaf				--
2	ARSENIC	Pt		0.01		--
60	SELENIUM	Pt				--
10	CHRYSOPHANOL	Root				--
0	4-(P-HYDROXYPHENYL)BUTANONE-O-GLUCOSIDE	Root				--
1	QUERCETIN-3-O-RHAMNOSIDE	Pt				--
102	CAFFEIC-ACID	Pt		8.0		--
0	DESOXYRHAPONTICIN	Root				--
87	RUTIN	Leaf		6000.0	-0.6320516287849793	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CHRYSOPHANIN	Root				--
0	3,5,4'- TRIHYDROXYSTILBENE-4'- O-GLUCOSIDE	Root				--
2	QUERCETIN-3'-GLUCOSIDE	Pt				--
8	LACTIC-ACID	Pt				--
2	MOLYBDENUM	Pt		0.1		--
1	CYANIDIN-3-RUTINOSIDE	Leaf				--
0	ANTHRAQUINONE- GLYCOSIDES	Leaf				--
0	GLUCOCHRYSARONE	Root				--
6	CHRYSOPHANIC-ACID	Root Essent. Oil				--
7	(-)-EPICATECHIN-3-O- GALLATE	Root				--
0	3,5,4'- TRIHYDROXYSTILBENE-4'- O-(6'-O-GALLOYL)- GLUCOSIDE	Root				--
43	PROTOCATECHUIC-ACID	Pt				--
0	ISORHAPONTIGENIN	Root				--
0	PECTINS	Pt		1020.0		--
61	FERULIC-ACID	Root				--
0	CYANIDIN-3-GLUCOSIDE	Leaf				--
0	ANHYDRORHAPONTIGENI N	Root				--
0	METHYL-CHRYSOPHANIC- ACID	Root				--
0	GALLIC-ACID-4-O-(6'-O- GALLOYL)-GLUCOSIDE	Root				--
0	CHRYSARONE-METHYL- ETHER	Root				--
38	(-)-EPICATECHIN	Root				--
0	3,3',5'-TRIHYDROXY-4'- METHOXYSTILBEN-3- BETA-D- GLUCOPYRANOSIDE	Plant				--
22	ISOQUERCITRIN	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
7	SUCCINIC-ACID	Pt				--
61	FERULIC-ACID	Pt		8.0		--
0	GALLIC-ACID-3-O-(6'-O-GALLOYL)-GLUCOSIDE	Root				--
0	CHRYsarONE	Root				--
1	EPICATECHIN-3-O-GALLATE	Root				--
0	2-O-CINNAMOYLGLUCOGALLIN	Root				--
0	ISOLINDLEYIN	Root				--
25	P-COUMARIC-ACID	Root				--
0	RHEINOSIDES	Root		12900.0		--
62	GALLIC-ACID	Root				--
40	EPICATECHIN	Root				--
0	1-O-GALLOYL-GLYCEROL	Root				--
0	PROCYANIDIN-B1,3'-O-GALLATE	Root				--
0	ISOEMODIN	Root				--
9	SINAPIC-ACID	Root				--
25	P-COUMARIC-ACID	Pt		44.0		--
23	CITRIC-ACID	Pt				--
18	RHEIN	Root				--
15	MALIC-ACID	Pt				--
62	GALLIC-ACID	Pt		53.0		--
0	1,6-DI-O-GALLOYL-GLUCOSE	Root				--
3	PROCYANIDIN-B-2-3,3'-DI-O-GALLATE	Root				--
9	SINAPIC-ACID	Pt		6.0		--
0	EO	Root				--
0	CHRYSORHAPONTIN	Root				--
0	ALOE-EMODIN-8-O-GLUCOSIDE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	RHAPONTIGENIN	Root				--
0	MAGNESIUM-OXALATE	Pt				--
7	FUMARIC-ACID	Pt				--
0	1,2,6-TRI-O-GALLOYL-GLUCOSE	Root				--
0	EMODIN-METHYL-ETHER	Root				--
0	CHRYSOPONTIN	Root				--
16	ACETIC-ACID	Pt				--
1	RHAPONTICIN	Root		14200.0		--
0	FRANGULA-EMODIN-ANTHRONE	Leaf				--
4	CALCIUM-OXALATE	Leaf				--
0	WATER	Leaf		900000.0	0.46079394661662293	--
0	(+)-CATECHIN-5-O-GLUCOSIDE	Root				--
0	PICEATANNOL-3'-O-GLUCOSIDE	Plant				--
0	GLYCOGALLIN	Root				--
0	EMODIN-8-O-GLUCOSIDE	Root				--
1	SENNOSIDE-B	Root				--