

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Panax ginseng

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Leaf				--
77	ZINC	Stem				--
77	ZINC	Petiole				--
77	ZINC	Root				--
77	ZINC	Fruit				--
3	XYLOSE	Tissue Culture				--
3	XYLOSE	Root				--
0	WATER	Root		788000.0	0.12275678708782596	--
0	VITAMIN-B12	Root				--
2	VIOLAXANTHIN	Leaf				--
0	VICILIN	Endosperm				--
24	VANILLIC-ACID	Root		55.0	0.9214964116563734	--
24	VANILLIC-ACID	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
3	VALINE	Root				--
3	VALINE	Leaf				--
0	URIDINE	Root				--
0	URACIL	Root				--
8	TYROSINE	Leaf				--
8	TYROSINE	Root				--
0	TRIPALMITIN	Root				--
0	TRIPALMITIN	Rhizome				--
0	TRIMETHYL-PYRAZINE	Root				--
2	TRIFOLIN	Leaf				--
2	TRIFOLIN	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	TRICOSANOIC-ACID	Root				--
0	TRANS-CARYOPHYLLENE	Plant				--
0	TRANS-CARYOPHYLLENE	Root Essent. Oil				--
2	TRANS-BETA-FARNESENE	Plant				--
2	TRANS-BETA-FARNESENE	Root Essent. Oil		80000.0	0.947568920739301	--
0	TRACE-ELEMENTS	Root				--
1	TOLUENE	Shoot				--
4	TIN	Root	3.4	16.0	-0.0494227816847916	--
0	THUJ-4(10)-ENE	Root				--
4	THREONINE	Root				--
4	THREONINE	Leaf				--
0	THIAMINE	Root	0.4	1.7	-0.5227719246853555	--
31	THIAMIN	Root		1.7	-0.4425168354864589	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
18	TERPINEOL	Root Essent. Oil				--
18	TERPINEOL	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
6	TARTARIC-ACID	Root				--
41	TANNIC-ACID	Leaf				--
5	SUPEROXIDE-DISMUTASE	Root				--
0	SUGARS	Root	19080.0	90000.0	-0.13436730873315797	--
14	SUCROSE	Root	1300.0	226000.0	1.0351788500330728	--
14	SUCROSE	Stem		3500.0		--
14	SUCROSE	Leaf		6400.0	-0.9162072066569106	--
14	SUCROSE	Rhizome				--
7	SUCCINIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	STIGMASTEROL-6'-STEARYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	STIGMASTEROL-6'-PALMITYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	STIGMASTEROL-6'-OLEYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	STIGMASTEROL-6'-LINOLYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	STIGMASTEROL-6'-LINOLENYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
12	STIGMASTEROL	Root				--
8	STEARIC-ACID	Root				--
5	STARCH	Root	25440.0	120000.0	-0.818804895582863	--
5	STARCH	Rhizome				--
0	SQUALENE-2-3-OXIDE	Seed Oil				--
10	SQUALENE	Seed Oil				--
0	SPINACINE	Root		33.3		--
1	SPERMINE	Root				--
1	SPERMIDINE	Root				--
0	SPATHULENOL	Plant		15.9	-0.5352938495785399	--
1	SODIUM	Root	5.0	24.0	-0.5015977269170404	--
0	SITOSTEROL-6'-STEARYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	SITOSTEROL-6'-PALMITYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	SITOSTEROL-6'-OLEYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	SITOSTEROL-6'-LINOLYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	SITOSTEROL-6'-LINOLENYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
4	SILICON	Root				--
0	SESQUITERPENEDIOL	Root				--
1	SERINE	Leaf				--
1	SERINE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	SENECRASSIDIOL	Root				--
0	SELINA-4(14),7(11)-DIENE	Root Essent. Oil				--
60	SELENIUM	Root	0.5	2.5	-0.18461140397934853	--
5	SAPONINS	Stem	16000.0	40000.0		--
5	SAPONINS	Shoot				--
5	SAPONINS	Root		20000.0	-0.6445017907060011	--
5	SAPONINS	Leaf		128000.0	1.3249298643249272	--
5	SAPONINS	Flower		69000.0		--
0	SAPONIN-V	Tissue Culture				--
0	SAPONIN-V	Plant				--
0	SAPONIN-V	Root				--
0	SAPONIN-IV	Plant				--
0	SAPONIN-IV	Root				--
0	SAPONIN-IV	Tissue Culture				--
0	SAPONIN-III	Tissue Culture				--
0	SAPONIN-III	Root				--
0	SAPONIN-III	Plant				--
0	SAPONIN-II	Plant				--
0	SAPONIN-II	Root				--
0	SAPONIN-II	Tissue Culture				--
0	SANTALENE	Shoot				--
34	SALICYLIC-ACID	Root		3.4	-1.0	--
15	RIBOFLAVIN	Root	0.4	1.8	-0.49776655351897503	--
0	RHAMNOSE	Tissue Culture				--
0	RHAMNOSE	Root				--
0	QUINQUENOSIDE-R-1	Root		20.0	-1.0	--
1	PYRUVIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PYROGLUTAMIC-ACID	Root				--
0	PUTRESCINE	Root				--
0	PROTOPANAXADIOL-GLYCOSIDES	Root				--
0	PROTOPANAXADIOL	Root				--
0	PROTEIN	Root	23108.0	109000.0	-0.10570538573840164	--
0	PROLINE	Leaf				--
0	PROLINE	Root				--
0	PRO-RENIN	Root				--
14	POTASSIUM	Root	515.0	2430.0	-0.9774436969784575	--
0	POLYSACCHARIDE-SB	Root				--
0	POLYSACCHARIDE-SA	Root				--
0	POLYSACCHARIDE-GL-P-IV	Leaf		2.4		--
0	POLYSACCHARIDE-GL-P-III	Leaf		2.2		--
0	POLYSACCHARIDE-GL-P-II	Leaf		8.0		--
0	POLYSACCHARIDE-GL-P-I	Leaf		5.0		--
0	POLYSACCHARIDE	Rhizome				--
0	POLYSACCHARIDE	Root				--
0	POLYSACCHARIDE	Tissue Culture				--
0	POLYACETYLENES	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
4	PHOSPHORUS	Root	112.0	528.0	-0.5253256654441569	--
0	PHOSPHATIDYL-INOSITOL	Root				--
0	PHOSPHATIDYL-GLYCEROL	Root				--
0	PHOSPHATIDYL-ETHANOLAMINE	Root				--
2	PHOSPHATIDYL-CHOLINE	Root				--
0	PHOSPHATIDIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PHEOPHYTIN	Leaf				--
0	PHENYLETHANOL	Shoot				--
7	PHENYLALANINE	Leaf				--
7	PHENYLALANINE	Root				--
2	PHENYL-ACETALDEHYDE	Shoot				--
0	PHENOLASE	Root				--
0	PERLOLYRINE	Root		1.6		--
0	PERLARGONIDIN-3-O-BETA-D-GLUCOSIDE	Root				--
1	PENTADECANOIC-ACID	Root				--
0	PERLARGONIDIN-3-MONOGLUCOSIDE	Fruit Epidermis				--
24	PECTIN	Plant				--
24	PECTIN	Root				--
2	PATCHOULENE	Root Essent. Oil		20000.0		--
11	PANTOTHENIC-ACID	Root		6.6	-1.5734087317737453	--
1	PANAXYTRIOL	Root	14.2	250.0	0.9999999999999999	--
0	PANAXYNOL-LINOLEATE	Root		1.3		--
3	PANAXYNOL	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PANAXYNE-EPOXIDE	Root	1.8	9.0		--
0	PANAXYNE	Root				--
0	PANAXYDOL-LINOLEATE	Root		8.1		--
0	PANAXYDOL-CHLOROHYDRIN	Root		13.5		--
1	PANAXYDOL	Root	357.1	440.0	-1.0	--
1	PANAXYDOL	Tissue Culture		8.0		--
0	PANAXOSIDE-F	Root				--
0	PANAXOSIDE-E	Root				--
0	PANAXOSIDE-D	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PANAXOSIDE-C	Root				--
0	PANAXOSIDE-B	Root				--
0	PANAXOSIDE-A-PROGENIN-I	Root				--
0	PANAXOSIDE-A	Root				--
5	PANAXIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
4	PANAXIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PANAXATRIOL-SAPONIN	Shoot				--
0	PANAXATRIOL-GLYCOSIDE	Root				--
0	PANAXATRIOL	Root	700.0	7700.0	-1.0	--
0	PANAXATRIOL	Leaf				--
0	PANAXAN-U	Root				--
0	PANAXAN-T	Root				--
0	PANAXAN-S	Root				--
0	PANAXAN-R	Root				--
0	PANAXAN-Q	Root				--
0	PANAXAN-P	Root				--
0	PANAXAN-O	Root				--
0	PANAXAN-N	Root				--
0	PANAXAN-M	Root				--
0	PANAXAN-L	Root				--
0	PANAXAN-K	Root				--
0	PANAXAN-J	Root				--
0	PANAXAN-I	Root				--
0	PANAXAN-H	Root				--
0	PANAXAN-G	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PANAXAN-F	Root				--
1	PANAXAN-E	Root				--
1	PANAXAN-D	Root				--
1	PANAXAN-C	Root				--
1	PANAXAN-B	Root				--
1	PANAXAN-A	Root				--
0	PANAXADIOL-SAPONIN	Shoot				--
0	PANAXADIOL	Root	700.0	6500.0	-1.0	--
1	PANAXACOL	Tissue Culture	37.0	50.0		--
1	PANAXACOL	Root				--
0	PANAX-TRITERPENE-GF-VII	Fruit				--
0	PANAX-TRITERPENE-GF-VI	Fruit				--
0	PANAX-SAPONIN-C	Root				--
0	PANAX-SAPONIN-A	Root				--
0	PANAX-PROTEIN	Root				--
0	PANAX-POLYSACCHARIDE-S-2-A	Stem				--
0	PANAX-POLYSACCHARIDE-P-N	Leaf				--
0	PANAX-POLYSACCHARIDE-GL-NI-B	Leaf				--
0	PANAX-POLYSACCHARIDE-GL-NI-A	Leaf				--
0	PANAX-POLYSACCHARIDE-GL-B-III	Leaf				--
0	PANAX-POLYSACCHARIDE-GL-AI-B	Leaf				--
0	PANAX-POLYSACCHARIDE-GL-AI-A	Leaf				--
0	PANAX-POLYSACCHARIDE-GL-4-II-B-1-II	Root				--
0	PANAX-POLYSACCHARIDE-GL-4	Root				--
0	PANAX-POLYSACCHARIDE-GH-1	Root				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PANAX-POLYSACCHARIDE	Tissue Culture				--
0	PANAX-POLYSACCHARIDE	Root	30000.0	40000.0		--
0	PANAX-POLYPHENOLIC-PERMETHYL-ETHER	Root				--
0	PANAX-POLYPEPTIDE	Root				--
0	PANAX-PECTIC-HETEROGLYCAN-GL-4-II-B-1-III	Leaf				--
0	PANAX-OLIGOSACCHARIDE	Tissue Culture				--
0	PANAX-HETEROGLYCAN-GL-P-IV	Leaf				--
0	PANAX-HETEROGLYCAN-GL-P-II	Leaf				--
0	PANAX-HETEROGLYCAN-GL-P-I	Leaf				--
0	PANAX-GLYCOPROTEIN	Root				--
0	PANAX-GINSENG-PROTEIN	Root				--
0	PANAX-GINSENG-POLYACETYLENE-G	Root				--
0	PANAX-GINSENG-POLYACETYLENE-F	Root				--
0	PANAX-GINSENG-POLYACETYLENE-E	Root				--
0	PANAX-GINSENG-POLYACETYLENE-D	Root				--
0	PANAX-GINSENG-POLYACETYLENE-C	Root				--
0	PANAX-GINSENG-LIPOLYTIC-PEPTIDE	Root				--
0	PANAX-GINSENG-GLYCOSIDE-P-1	Root				--
0	PANAX-GINSENG-GLYCOPROTEIN	Root				--
0	PANAX-GINSENG-GENIN-F-4	Root				--
0	PANAX-GINSENG-GENIN-F-2	Root				--
0	PANAX-GINSENG-GENIN-F-1	Root				--
0	PANAX-GINSENG-20(S)-PROSAPOGENIN	Root				--
0	PANASINSANOL-B	Root		12.5		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PANASINSANOL-A	Root		2.3		--
0	PANASENOSIDE	Shoot				--
0	PANASENOSIDE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
1	PANACENE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PALMITOYL-BETA-D-GLUCOSIDE	Tissue Culture				--
2	PALMITOLEIC-ACID	Root				--
13	PALMITIC-ACID	Plant				--
13	PALMITIC-ACID	Root				--
13	PALMITIC-ACID	Leaf Essent. Oil		160000.0		--
13	PALMITIC-ACID	Stem Essent. Oil		160000.0		--
13	PALMITIC-ACID	Root Essent. Oil		86000.0	1.2911413065205417	--
1	P-HYDROXYCINNAMIC-ACID	Root		26.0		--
25	P-COUMARIC-ACID	Root				--
0	OXALIC-ACID-ETHYL-ESTER	Root				--
18	OLEIC-ACID	Root				--
64	OLEANOLIC-ACID	Root	150.0	700.0	0.845493216306878	--
0	OCTACOSAN-1-OL	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	OBTUSIFOLIOL	Seed Oil				--
0	O-ALPHA-D-GLUCOPYRANOSYL...GLUCOPYRANOSE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	O-ALPHA-D-GLUCOPYRANOSYL...FRUCTOFURANOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NOTOGINSENSIDE-R-1	Root		20.0		--
2	NORHARMAN	Root				--
11	NICOTINIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	NICOTINAMIDE	Root				--
39	NIACIN	Root	17.0	80.0	0.8625453013144426	--
0	NERVONIC-ACID	Root				--
11	NEROLIDOL	Shoot				--
2	NEOXANTHIN	Leaf				--
0	NEOCLOVENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	NEO-INTERMEDEOL	Plant		10.4		--
0	N-PENTADECANE	Root Essent. Oil		18000.0		--
0	N-PENTADECANE	Plant				--
1	N-NONACOSANE	Root				--
1	N-NONACOSANE	Rhizome				--
1	N-NONACOSANE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	N-FORMYL-HARMAN	Root				--
0	N-9-FORMYL-HARMAN	Root		0.1		--
6	MYRISTIC-ACID	Root				--
0	MORETENOL	Seed Oil				--
0	MONOSACCHARIDES	Root		15000.0		Chemical Constituents of Oriental Herbs (3 diff. books)
2	MOLYBDENUM	Stem				--
2	MOLYBDENUM	Pt				--
2	MOLYBDENUM	Fruit				--
2	MOLYBDENUM	Leaf				--
2	MOLYBDENUM	Root				--
0	METHYL-6,9-DIALKYNE- OCTADECATE	Shoot				--
15	METHIONINE	Root				--
15	METHIONINE	Leaf				--
0	MAYURONE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MAYURONE	Root Essent. Oil				--
18	MANNITOL	Root				--
14	MANGANESE	Stem				--
14	MANGANESE	Fruit				--
14	MANGANESE	Pt				--
14	MANGANESE	Leaf				--
14	MANGANESE	Root	0.4	1.9	-0.5231856000816221	--
2	MALTOSE	Stem		1300.0		--
2	MALTOSE	Root	5100.0	199600.0	1.0	--
11	MALTOL	Root				--
0	MALONYL-GINSENOSE- RD	Rhizome				--
0	MALONYL-GINSENOSE- RD	Root	400.0	1200.0		--
0	MALONYL-GINSENOSE- RC	Rhizome	3400.0	3500.0		--
0	MALONYL-GINSENOSE- RC	Root	1000.0	8400.0		--
0	MALONYL-GINSENOSE- RB-2	Rhizome	4000.0	4200.0		--
0	MALONYL-GINSENOSE- RB-2	Root	1370.0	11000.0		--
0	MALONYL-GINSENOSE- RB-1	Rhizome	6900.0	13000.0		--
0	MALONYL-GINSENOSE- RB-1	Root	2730.0	13000.0		--
15	MALIC-ACID	Root				--
0	MALEIC-ACID	Root				--
65	MAGNESIUM	Root	102.0	481.0	-1.107068199242284	--
0	LYSOPHOSPHATIDYLCHOL INE	Root				--
0	LYSOPHOSPHATIDYL- INOSITOL	Root				--
4	LYSINE	Root				--
4	LYSINE	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
7	LUTEOLIN-7-GLUCOSIDE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
15	LUTEIN	Leaf				--
21	LUPEOL	Seed Oil				--
0	LINOLEOYL-BETA-D-GLUCOSIDE	Tissue Culture				--
0	LINOLENIC-ACID	Root				--
0	LINOLEIN	Root				--
27	LINOLEIC-ACID	Root		140.0	-1.1111121238776438	--
53	LINALOOL	Root Essent. Oil				--
60	LIMONENE	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
60	LIMONENE	Root Essent. Oil				--
3	LIGUSTRAZINE	Root				--
1	LIGNOCERIC-ACID	Root				--
2	LEUCINE	Leaf				--
2	LEUCINE	Root				--
0	KINETIN	Tissue Culture				--
0	KILOCALORIES	Root		2740.0	-1.3796935435329993	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	KETOGLUTARIC-ACID	Root				--
0	KARUSAN-E	Root				--
0	KARUSAN-D	Root				--
0	KARUSAN-C	Root				--
0	KARUSAN-B	Root				--
0	KARUSAN-A	Root				--
75	KAEMPFEROL	Shoot				--
75	KAEMPFEROL	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
3	ISOLEUCINE	Leaf				--
3	ISOLEUCINE	Root				--
0	ISO-PROPYL-PROPIONATE	Root				--
0	ISO-BUTYL-PROPIONATE	Root				--
6	IRON	Fruit				--
6	IRON	Stem				--
6	IRON	Root				--
6	IRON	Pt				--
6	IRON	Leaf				--
0	INVERTASE	Root				--
1	INDOLE-ACETIC-ACID	Tissue Culture				--
0	INDOLE-3-ACETYL-ASPARTATE	Tissue Culture				--
7	INDOLE-3-ACETIC-ACID	Tissue Culture				--
2	HUMULENE	Root Essent. Oil		24000.0	1.0	--
2	HUMULENE	Stem Essent. Oil				--
2	HUMULENE	Leaf Essent. Oil				--
7	HISTIDINE	Leaf				--
7	HISTIDINE	Root		20.0	-1.7257014002319866	--
0	HEXAN-1-AL	Shoot				--
0	HEXADECANOIC-ACID	Shoot				--
0	HETEROGLYCAN-F	Fruit				--
1	HEPTADECANOIC-ACID	Root				--
0	HEPTADECAN-2-ONE	Leaf Essent. Oil		20000.0		--
0	HEPTADECAN-2-ONE	Stem Essent. Oil		20000.0		--
0	HEPTADECAN-2-ONE	Root Essent. Oil		43000.0		--
0	HEPTADECAN-1-OL	Root Essent. Oil		19000.0		--
0	HEPTADECA-1-TRANS-8-DIENE-4-6-DIYNE-3-10-DIOL	Root		5.2		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEPTADECA-1-ENE-4-6-DIYNE-3-9-10-TRIOL	Root		1.5		--
0	HEPTADECA-1-EN-4,6-DIYN-3,9-DIOL	Root		150.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	HEPTADECA-1-9-DIEN-4-6-DIYN-3-OL	Root				--
0	HEPTADECA-1-8-DIENE-4-6-DIYNE-3-10-DIOL	Root		14.6	-1.0000000000000067	--
0	HEPTADECA-1-8-DIENE-4-6-DIYN-3-10-DIONE	Root				--
0	HEPTADECA-1-8-DIENE-4-6-DIYN-10-OL-3-ONE	Root				--
0	HEPTADECA-1-8-DIEN-4-6-DIYN-3-10-DIOL	Root				--
0	HEPTADECA-1-4-DIENE-6-8-DIYNE-3-10-DIOL	Root				--
0	HEPTADEC-1-EN-4,6-DIYNE-3,9-DIOL	Root		150.0		--
0	HEPTADEC-1-EN-4,6-DIYNE-3,9,10-TRIOL	Root				--
0	HEPTADEC-1-EN-4,6-DIYN-3,9,10-TRIOL	Root				--
0	HENEICOSANOIC-ACID	Root				--
7	HARMAN	Root				--
0	GYPENOSIDE-XVII	Tissue Culture		960.0		--
0	GUM	Root	27560.0	130000.0	0.9757626125530419	--
1	GUANINE	Root				--
0	GOMSEMPISODE-RB-2	Root				--
0	GLYCOCHOLIC-ACID	Root				--
0	GLYCO-DEOXY-CHOLIC-ACID	Root				--
0	GLYCO-CHENODEOXYCHOLIC-ACID	Root				--
12	GLYCINE	Root				--
12	GLYCINE	Leaf				--
0	GLY-ARG-GAMMA-GLU-VAL-NH2	Root				--
8	GLUTAMIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	GLUTAMIC-ACID	Root				--
7	GLUCOSE	Root	100.0	9000.0	-0.5544082656198722	--
7	GLUCOSE	Tissue Culture				--
7	GLUCOSE	Stem		14700.0		--
7	GLUCOSE	Leaf		5800.0	-0.5922731387025567	--
0	GINSENOYNES	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
0	GINSENOYNE-K	Root		14.1		--
0	GINSENOYNE-J	Root		3.5		--
0	GINSENOYNE-I	Root		2.6		--
0	GINSENOYNE-H	Root		1.47		--
0	GINSENOYNE-G	Root		0.176	-1.0	--
0	GINSENOYNE-F	Root		2.6		--
0	GINSENOYNE-E	Root		7.1		--
0	GINSENOYNE-D	Root		7.1		--
0	GINSENOYNE-C	Root		1.1		--
0	GINSENOYNE-B	Root		1.5		--
0	GINSENOYNE-A-LINOLEATE	Root		2.8		--
0	GINSENOYNE-A	Root		12.8		--
18	GINSENOIDES	Root	10720.0	30000.0	-0.8754149693562976	--
18	GINSENOIDES	Plant				--
18	GINSENOIDES	Shoot				--
18	GINSENOIDES	Tissue Culture				--
0	GINSENOIDE-Z-R-1	Root				--
2	GINSENOIDE-RH1	Shoot				--
2	GINSENOIDE-RH1	Tissue Culture				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	GINSENOSIDE-RH1	Root		15.0		--
2	GINSENOSIDE-RH1	Leaf	12.5	135.0		--
0	GINSENOSIDE-RH-3	Shoot				--
0	GINSENOSIDE-RH-3	Leaf	2.9	5.0		--
0	GINSENOSIDE-RH-2	Root				--
0	GINSENOSIDE-RH-2	Shoot		0.4		--
0	GINSENOSIDE-RH	Shoot				--
0	GINSENOSIDE-RH	Root				--
0	GINSENOSIDE-RG-4	Leaf	0.16	4.5		--
2	GINSENOSIDE-RG-3	Leaf	25.0	195.0		--
2	GINSENOSIDE-RG-3	Root	3.0	30.0		--
2	GINSENOSIDE-RG-3	Shoot				--
3	GINSENOSIDE-RG-2	Shoot				--
3	GINSENOSIDE-RG-2	Flower				--
3	GINSENOSIDE-RG-2	Rhizome				--
3	GINSENOSIDE-RG-2	Root	100.0	26700.0	1.0	--
3	GINSENOSIDE-RG-2	Leaf	67.0	317.5		--
13	GINSENOSIDE-RG-1	Root	320.0	58400.0	1.0	--
13	GINSENOSIDE-RG-1	Stem		2920.0		--
13	GINSENOSIDE-RG-1	Leaf	5.0	72200.0	1.0	--
13	GINSENOSIDE-RG-1	Shoot		15000.0	1.0	--
13	GINSENOSIDE-RG-1	Fruit	400.0	287200.0		--
13	GINSENOSIDE-RG-1	Flower	400.0	3000.0		--
13	GINSENOSIDE-RG-1	Embryo				--
13	GINSENOSIDE-RG-1	Tissue Culture				--
13	GINSENOSIDE-RG-1	Root Bark				--
13	GINSENOSIDE-RG-1	Rhizome	3800.0	4500.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
13	GINSENOSIDE-RG-1	Pt	1000.0	3270.0		--
1	GINSENOSIDE-RG	Root	4600.0	16300.0		--
1	GINSENOSIDE-RG	Root Bark		34000.0		--
1	GINSENOSIDE-RG	Tissue Culture	12200.0	17300.0		--
1	GINSENOSIDE-RG	Stem		700.0		--
4	GINSENOSIDE-RF	Rhizome		1500.0		--
4	GINSENOSIDE-RF	Flower				--
4	GINSENOSIDE-RF	Root	200.0	9200.0		--
4	GINSENOSIDE-RF	Tissue Culture				--
4	GINSENOSIDE-RF	Shoot				--
4	GINSENOSIDE-RF	Fruit		6900.0		--
4	GINSENOSIDE-RF	Leaf	24100.0	38300.0		--
0	GINSENOSIDE-RE-3	Root				--
0	GINSENOSIDE-RE-2	Root				--
5	GINSENOSIDE-RE	Tissue Culture				--
5	GINSENOSIDE-RE	Stem		700.0		--
5	GINSENOSIDE-RE	Root	680.0	84800.0	1.0	--
5	GINSENOSIDE-RE	Fruit Juice				--
5	GINSENOSIDE-RE	Shoot		15000.0	1.0	--
5	GINSENOSIDE-RE	Leaf	15.0	151200.0	1.0	--
5	GINSENOSIDE-RE	Seed				--
5	GINSENOSIDE-RE	Fruit	25000.0	60000.0		--
5	GINSENOSIDE-RE	Rhizome	4700.0	5700.0		--
5	GINSENOSIDE-RE	Flower	25000.0	60000.0		--
5	GINSENOSIDE-RE	Pt	600.0	1410.0		--
0	GINSENOSIDE-RD-2	Embryo				--
0	GINSENOSIDE-RD-2	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
3	GINSENOSIDE-RD	Fruit	1000.0	68800.0		--
3	GINSENOSIDE-RD	Tissue Culture				--
3	GINSENOSIDE-RD	Pt	100.0	1070.0		--
3	GINSENOSIDE-RD	Shoot		15000.0	1.0	--
3	GINSENOSIDE-RD	Flower	1000.0	5000.0		--
3	GINSENOSIDE-RD	Seed				--
3	GINSENOSIDE-RD	Root Bark				--
3	GINSENOSIDE-RD	Rhizome	700.0	1600.0	-1.0	--
3	GINSENOSIDE-RD	Embryo				--
3	GINSENOSIDE-RD	Root	380.0	21200.0	1.0	--
3	GINSENOSIDE-RD	Leaf	11.0	65800.0	1.0	--
0	GINSENOSIDE-RC-2	Root				--
6	GINSENOSIDE-RC	Seed				--
6	GINSENOSIDE-RC	Pt		1900.0		--
6	GINSENOSIDE-RC	Embryo				--
6	GINSENOSIDE-RC	Root Bark				--
6	GINSENOSIDE-RC	Rhizome		4700.0		--
6	GINSENOSIDE-RC	Root	500.0	25000.0	1.0	--
6	GINSENOSIDE-RC	Leaf	3.5	37700.0	1.0	--
6	GINSENOSIDE-RC	Fruit	1000.0	36700.0		--
6	GINSENOSIDE-RC	Flower	672.0	2000.0		--
6	GINSENOSIDE-RC	Tissue Culture				--
6	GINSENOSIDE-RC	Shoot		2000.0		--
0	GINSENOSIDE-RB-GROUP	Tissue Culture				--
0	GINSENOSIDE-RB-GROUP	Root				--
0	GINSENOSIDE-RB-C	Root Bark		24000.0		--
0	GINSENOSIDE-RB-C	Root		14000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	GINSENOSIDE-RB-3	Root		50.0	-1.0	--
2	GINSENOSIDE-RB-3	Flower		136.0		--
0	GINSENOSIDE-RB-2-C	Root				--
8	GINSENOSIDE-RB-2	Leaf	11.0	58300.0	1.0	--
8	GINSENOSIDE-RB-2	Rhizome	4500.0	5700.0		--
8	GINSENOSIDE-RB-2	Fruit	200.0	29500.0		--
8	GINSENOSIDE-RB-2	Root Bark				--
8	GINSENOSIDE-RB-2	Flower		2000.0		--
8	GINSENOSIDE-RB-2	Seed				--
8	GINSENOSIDE-RB-2	Tissue Culture				--
8	GINSENOSIDE-RB-2	Embryo				--
8	GINSENOSIDE-RB-2	Shoot		4000.0	1.0	--
8	GINSENOSIDE-RB-2	Root	100.0	23000.0	1.0	--
8	GINSENOSIDE-RB-2	Stem		3970.0		--
14	GINSENOSIDE-RB-1	Root Bark				--
14	GINSENOSIDE-RB-1	Root	1700.0	83000.0	1.0	--
14	GINSENOSIDE-RB-1	Shoot		1000.0		--
14	GINSENOSIDE-RB-1	Leaf	9.0	8000.0	1.0	--
14	GINSENOSIDE-RB-1	Seed				--
14	GINSENOSIDE-RB-1	Bud		2000.0		--
14	GINSENOSIDE-RB-1	Flower		2000.0		--
14	GINSENOSIDE-RB-1	Tissue Culture				--
14	GINSENOSIDE-RB-1	Embryo				--
14	GINSENOSIDE-RB-1	Rhizome	8800.0	14000.0		--
14	GINSENOSIDE-RB-1	Fruit				--
1	GINSENOSIDE-RB	Tissue Culture	13100.0	15900.0		--
1	GINSENOSIDE-RB	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
1	GINSENOSIDE-RB	Root	11300.0	40000.0		--
0	GINSENOSIDE-RA-O	Root				--
0	GINSENOSIDE-RA-3	Root		50.0		--
0	GINSENOSIDE-RA-2	Root		300.0		--
0	GINSENOSIDE-RA-1	Root	100.0	300.0		--
0	GINSENOSIDE-RA	Shoot				--
0	GINSENOSIDE-RA	Root	100.0	300.0		--
4	GINSENOSIDE-R-O	Rhizome	18000.0	34000.0		--
4	GINSENOSIDE-R-O	Root	100.0	11000.0	1.0	--
4	GINSENOSIDE-R-O	Flower				--
0	GINSENOSIDE-NG-R-2	Root				--
0	GINSENOSIDE-M-7-ED	Flower		10.0		--
0	GINSENOSIDE-M-7-CD	Flower				--
0	GINSENOSIDE-M-7-B	Flower				--
0	GINSENOSIDE-M-7-A	Flower				--
0	GINSENOSIDE-M-7	Flower		300.0		--
0	GINSENOSIDE-M-6	Flower				--
0	GINSENOSIDE-M-5	Flower				--
0	GINSENOSIDE-M-4	Flower				--
0	GINSENOSIDE-M-3	Flower				--
0	GINSENOSIDE-L-A	Leaf	2.0	6.5		--
0	GINSENOSIDE-K	Root				--
0	GINSENOSIDE-FD-3	Flower				--
0	GINSENOSIDE-FD-2	Flower				--
0	GINSENOSIDE-FC-3	Flower				--
0	GINSENOSIDE-F4	Leaf		746.2		--
0	GINSENOSIDE-F3	Shoot		2000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GINSENOSIDE-F3	Flower		300.0		--
0	GINSENOSIDE-F3	Leaf		2000.0		--
0	GINSENOSIDE-F2	Shoot		2000.0		--
0	GINSENOSIDE-F2	Fruit		5000.0		--
0	GINSENOSIDE-F2	Leaf	2000.0	18400.0		--
0	GINSENOSIDE-F-1	Leaf		4000.0		--
0	GINSENOSIDE-F-1	Shoot		4000.0		--
0	GINSENOSIDE-F	Leaf		12.5		--
0	GINSENOSIDE	Plant				--
0	GINSENOSIDE	Root		47000.0		--
0	GINSENL	Root		9.6		--
0	GINSENG-POLYPEPTIDE-GPP	Root				--
0	GINSENG-POLYPEPTIDE	Root				--
0	GINSENG-S-II-A	Root		90.0		--
0	GINSENG-S-I-A	Root		106.6		--
0	GINSENG-PB	Root		170.0		--
0	GINSENG-PA	Root		235.0		--
0	GERMANIUM	Root	0.12	320.0	1.0	--
8	GENTISIC-ACID	Root				--
0	GENSENOSIDE-RD	Root				--
0	GE	Root				--
0	GAMMA-SELINENE	Root Essent. Oil				--
0	GAMMA-SELINENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	GAMMA-PATCHOULENE	Plant				--
0	GAMMA-PATCHOULENE	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GAMMA-ELEMENE	Root Essent. Oil	60000.0	100000.0	1.0	--
0	GAMMA-ELEMENE	Plant				--
0	GAMMA-CADINENE	Flower Essent. Oil				--
22	GAMMA-AMINOBUTYRIC-ACID	Root				--
0	GALANIN	Root				--
1	GALACTOSE	Root				--
0	GADOLEIC-ACID	Root				--
0	FURALDEHYDE	Shoot				--
7	FUMARIC-ACID	Root				--
8	FRUCTOSE	Stem		1800.0		--
8	FRUCTOSE	Leaf		6500.0	-1.351589051251948	--
8	FRUCTOSE	Tissue Culture				--
8	FRUCTOSE	Root	200.0	6000.0	-0.4913954846191467	--
0	FORMIC-ACID-METHYL-ESTER	Shoot				--
23	FOLIC-ACID	Root				--
3	FLUORIDE	Root		26.3	1.7190337938896858	--
0	FIBER(DIETARY)	Root		301000.0	-1.0640221212316432	--
0	FIBER(CRUDE)	Root		72000.0	-1.1616741196232196	--
15	FIBER	Root		72000.0	-0.35781867764508235	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
61	FERULIC-ACID	Root				--
0	FAT	Root	3752.0	17700.0	-0.172739674548991	--
16	FALCARINOL	Rhizome				--
16	FALCARINOL	Root	0.9	310.0	1.4051395916147116	--
76	EUGENOL	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	EUCALYPTOL	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.
1	ETHYLENE	Plant				--
0	ETHYLBENZENE	Shoot				--
24	ETHANOL	Shoot				--
8	ESTRONE	Root				--
6	ESTRIOL	Root				--
3	ESTRADIOL	Root				--
2	ERUCIC-ACID	Root				--
0	EREMOPHILENE	Plant				--
0	EREMOPHILENE	Root Essent. Oil		23000.0		--
0	EREMOPHILA-1-(10)-11-DIENE	Flower Essent. Oil				--
0	EREMOPHIL-1-(10)-11-ENE	Shoot				--
0	EPSILON-MUUROLENE	Root Essent. Oil				--
0	EPSILON-MUUROLENE	Plant				--
0	EO	Root	100.0	500.0	-0.631241020868696	--
3	ELEMENE	Root				--
0	DISACCHARIDES	Root		33000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	DIHYDROPANAXACOL	Tissue Culture		2.0		--
0	DIHYDROACTINIDIOLIDE	Shoot				--
0	DIGLYCOSYL-DIGLYCERIDE	Root				--
0	DI-ISO-PROPYL-SULFIDE	Root				--
0	DENSICHINE	Root				--
0	DENDROLASIN	Shoot				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	DELTA-CADINENE	Root				--
0	DECA-TRANS-2-CIS-4-DIEN-1-AL	Shoot				--
0	DECA-TRANS-2,TRANS-4-DIEN-1-AL	Shoot				--
5	DAUCOSTEROL	Fruit				--
5	DAUCOSTEROL	Root				--
5	DAUCOSTEROL	Tissue Culture				--
5	DAUCOSTEROL	Rhizome				--
0	DAUCOSTERINE	Root				--
0	DAUCOSTERINE	Leaf		3.8		--
0	DAMMARAN-3-BETA-6-ALPHA-12-BETA-20(R)-25-PENTAOL-6-O-ALPHA-L-RHAMNOPYRANOSYL(1-2)-O-BETA-D-GLUCOPYRANOSIDE	Shoot		10.0		--
0	DAMMARAN-3-BETA-6-ALPHA-12-BETA-20(R)-25-PENTAOL	Shoot		2.0		--
0	D-SUCROSE	Root				--
1	D-GLUCOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	D-FRUCTOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
2	CYSTINE	Leaf				--
2	CYSTINE	Root				--
13	CYSTEINE	Root				--
3	CYCLOEUCALENOL	Seed Oil				--
7	CYCLOARTENOL	Seed Oil				--
12	COPPER	Leaf				--
12	COPPER	Fruit				--
12	COPPER	Flower				--
12	COPPER	Root		17.0	0.5844884448285068	--
12	COPPER	Stem				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Inflorescence				--
2	COBALT	Root	0.7	3.1	-0.477922970663694	--
1	CITROSTADIENOL	Seed Oil				--
23	CITRIC-ACID	Root				--
53	CITRAL	Root Essent. Oil				--
53	CITRAL	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
0	CIS-CARYOPHYLLENE	Plant				--
0	CIS-CARYOPHYLLENE	Root Essent. Oil				--
0	CINEOLE	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.
24	CHROMIUM	Root	0.2	1.1	-0.34069526376445175	--
20	CHOLINE	Root	1000.0	2000.0	-0.17667432573797054	--
1	CHOLESTEROL	Seed Oil				--
0	CHOLESTA-3-5-DIENE	Shoot				--
21	CHLOROPHYLL	Leaf				--
0	CHLORO-PANAXYDIOL	Tissue Culture		3.0		--
0	CEREBROSIDE	Root				--
0	CELLULASE	Root				--
1	CATALASE	Root				--
1	CARYOPHYLLENE-ALCOHOL	Root Essent. Oil				--
31	CARYOPHYLLENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
31	CARYOPHYLLENE	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBON-DISULFIDE	Root		1500.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CARBOHYDRATES	Root	176808.0	834000.0	0.050849387570411526	--
0	CAPROIC-ACID-PROPYL-ESTER	Root				--
0	CAPROIC-ACID-BUTYL-ESTER	Root				--
0	CAMPESTEROL-6'-STEARYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CAMPESTEROL-6'-PALMITYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CAMPESTEROL-6'-OLEYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CAMPESTEROL-6'-LINOLYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CAMPESTEROL-6'-LINOLENYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
2	CAMPESTEROL	Root				--
28	CALCIUM	Root	611.0	2880.0	-0.4953286858004708	--
102	CAFFEIC-ACID	Root				--
4	CADINENE	Shoot				--
0	BUTYROSPERMOL	Seed Oil				--
0	BISABOLENE	Flower Essent. Oil				--
4	BIOTIN	Root		0.9		--
0	BICYCLOGERMACRENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	BICYCLOGERMACRENE	Root				--
0	BICYCLO-(2.1.0)-PENTANE-5-CARBOXYLIC-ACID-1-METHYL-ETHYL-ESTER	Shoot				--
0	BETA-SITOSTERYL-GLUCOSIDE	Plant				--
0	BETA-SITOSTEROL-3-O-BETA-D-GLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
47	BETA-SITOSTEROL	Rhizome				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Fruit				--
47	BETA-SITOSTEROL	Root				--
3	BETA-SELINENE	Root Essent. Oil		80000.0		--
3	BETA-SELINENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	BETA-SANTALENE	Flower Essent. Oil				--
0	BETA-PATCHOULENE	Root				--
0	BETA-PATCHOULENE	Root Essent. Oil				--
0	BETA-PANASINSENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	BETA-PANASINSENE	Root		10.2		--
0	BETA-NEOCLOVENE	Root Essent. Oil				--
0	BETA-NEOCLOVENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	BETA-MALTOSE	Root				--
0	BETA-MAALIENE	Shoot				--
0	BETA-MAALIENE	Root				--
0	BETA-MAALIENE	Flower Essent. Oil				--
0	BETA-HUMULENE	Root Essent. Oil				--
0	BETA-HUMULENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	BETA-GURJUNENE	Root Essent. Oil		60000.0	-1.0	--
0	BETA-GURJUNENE	Plant				--
0	BETA-GUAIENE	Plant				--
0	BETA-GUAIENE	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-GLUCOSE	Root				--
0	BETA-FRUCTOSE	Root				--
0	BETA-FARNESENE	Stem		1000.0		--
0	BETA-FARNESENE	Leaf		1000.0	0.3101066332955471	--
0	BETA-FARNESENE	Root Essent. Oil		85000.0	-1.0	--
0	BETA-FARNESENE	Flower Essent. Oil		43000.0		--
0	BETA-FARNESENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	BETA-FARNESENE	Root				--
0	BETA-FARNES-CIS-ENE	Shoot				--
0	BETA-FARNES-(3-CIS-6-TRANS)-ENE	Shoot				--
13	BETA-EUDESOL	Root Essent. Oil				--
13	BETA-EUDESOL	Plant				--
0	BETA-ELEMENE	Flower Essent. Oil				--
5	BETA-ELEMENE	Flower Essent. Oil		29000.0		--
5	BETA-ELEMENE	Shoot				--
5	BETA-ELEMENE	Root Essent. Oil		150000.0	1.0	--
5	BETA-ELEMENE	Root				--
0	BETA-CUBEBENE	Shoot				--
0	BETA-CUBEBENE	Flower Essent. Oil				--
0	BETA-CARYOPHYLLENE	Flower Essent. Oil				--
0	BETA-CARYOPHYLLENE	Shoot				--
53	BETA-CAROTENE	Root				--
0	BETA-BOURBONENE	Shoot				--
0	BETA-BOURBONENE	Flower Essent. Oil				--
6	BETA-BISABOLENE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
6	BETA-BISABOLENE	Root Essent. Oil				--
9	BETA-AMYRIN	Seed Oil				--
0	BETA-AMYLASE	Root				--
0	BENZYL-BETA-PRIMEVEROSIDE	Root		47.0		--
24	BENZALDEHYDE	Shoot				--
1	BEHENIC-ACID	Root				--
10	AZULENE	Shoot				--
0	AVENASTEROL	Seed Oil				--
3	ASPARTIC-ACID	Leaf				--
3	ASPARTIC-ACID	Root				--
0	ASPARTASE	Root				--
0	ASH	Root	10600.0	50000.0	-0.5013998487298318	--
112	ASCORBIC-ACID	Leaf				--
112	ASCORBIC-ACID	Root		0.0	-0.6459735820044326	--
2	ARSENIC	Root				--
3	AROMADENDRENE	Plant				--
3	AROMADENDRENE	Root Essent. Oil				--
3	AROMADENDRENE	Flower Essent. Oil				--
0	AROMADENDRANE-4-BETA-10-ALPHA-DIOL	Plant		3.0		--
14	ARGININE	Leaf				--
14	ARGININE	Root				--
0	ARACHIDIC-ACID	Root				--
0	AMINO-ACIDS	Flower				--
0	AMINO-ACIDS	Tissue Culture				--
0	AMINO-ACIDS	Root				--
5	ALUMINUM	Root	5.0	22.0	-0.30067595885157333	--
3	ALPHA-SELINENE	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ALPHA-SELINENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
3	ALPHA-SELINENE	Flower Essent. Oil				--
3	ALPHA-SELINENE	Root Essent. Oil				--
0	ALPHA-SANTALENE	Shoot Essent. Oil				--
0	ALPHA-SANTALENE	Flower Essent. Oil				--
0	ALPHA-SANTALENE	Root Essent. Oil				--
0	ALPHA-PYRROLIDONE	Root				--
28	ALPHA-PINENE	Root Essent. Oil				--
28	ALPHA-PINENE	Root				--
11	ALPHA-PHELLANDRENE	Root				--
11	ALPHA-PHELLANDRENE	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.
11	ALPHA-PHELLANDRENE	Root Essent. Oil				--
0	ALPHA-PANASINSENE	Root		17.6		--
0	ALPHA-PANASINSENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ALPHA-PANASINSENE	Root Essent. Oil				--
0	ALPHA-NEOCLOVENE	Root Essent. Oil				--
0	ALPHA-NEOCLOVENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ALPHA-MALTOSYL-BETA-D-FRUCTOFURANOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ALPHA-MALTOSE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ALPHA-HUMULENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	ALPHA-HUMULENE	Root Essent. Oil				--
0	ALPHA-GUAIENE	Flower Essent. Oil		55000.0		--
0	ALPHA-GUAIENE	Root				--
0	ALPHA-GUAIENE	Root Essent. Oil		40000.0	1.0	--
0	ALPHA-GLUCOSE	Root				--
0	ALPHA-GAMMA-DIPALMITIN	Root				--
0	ALPHA-FRUCTOSE	Root				--
0	ALPHA-FARNESENE	Flower Essent. Oil		14000.0		--
0	ALPHA-CUBEBENE	Shoot				--
0	ALPHA-CUBEBENE	Flower Essent. Oil				--
0	ALPHA-COPAENE	Flower Essent. Oil				--
0	ALPHA-COPAENE	Shoot Essent. Oil				--
0	ALPHA-BERGAMOTENE	Shoot				--
0	ALPHA-AMYLASE	Root				--
0	ALLO-AROMADENDRENE	Shoot				--
0	ALLO-AROMADENDRENE	Shoot Essent. Oil				--
0	ALLO-AROMADENDRENE	Flower Essent. Oil				--
0	ALLO-AROMADENDRENE	Plant				--
0	ALLO-AROMADENDRENE	Root Essent. Oil				--
3	ALANINE	Leaf				--
3	ALANINE	Root				--
0	ADENYL-CYCLASE	Root				--
28	ADENOSINE	Root		90.0	1.0	--
28	ADENOSINE	Rhizome				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	ADENINE	Root				--
0	ACIDIC-PEPTIDES	Flower				--
0	ACETYL-PANAXYDOL	Root		2.1	-1.0000000000000002	--
0	ACETIC-ACID-ETHYL-ESTER	Shoot				--
16	ACETIC-ACID	Shoot				--
0	9-10-EPOXY-HEPTADEC-1-16-DIENE-4-6-DIYN	Root				--
0	9-10-EPOXY-HEPTADEC-1-16-DIENE-4-6-DIYN-3-ONE	Root				--
0	7-ALKYNE-2-HYDROXY-NONA-TRANS-3-TRANS-5-DIENE	Shoot				--
0	6-METHYL-HEPT-6-EN-2-ONE	Shoot				--
0	6-METHYL-2-KETO-HEPTA-3-5-DIENE	Shoot				--
0	6-ALKYNE-HEXADEC-4-TRANS-ENE	Shoot				--
0	5-ETHYL-2-3-DIMETHYL-PYRAZINE	Root				--
0	4-OXY-OCT-6-ENOIC-ACID-METHYL-ESTER	Root				--
0	4-METHYL-THIAZOLE-5-ETHANOL	Root				--
0	4-METHYL-METHOXY-BENZENE	Shoot				--
0	3-SEC-BUTYL-2-METHOXY-5-METHYL-PYRAZINE	Root				--
0	3-ISO-PROPYL-2-METHOXY-5-METHYL-PYRAZINE	Root				--
0	3-DIHYDRO-PANAXACOL	Tissue Culture		2.5		--
0	3-9-10-TRIACETOXY-HEPTADEC-1-16-DIENE-4-6-DIYNE	Root				--
0	3-12-DIETHYL-TETRADEC-2-5-9-TRIENE	Shoot				--
0	28-ISOFUCOSTEROL	Seed Oil				--
5	24-METHYLENE-CYCLOARTANOL	Seed Oil				--
0	24-METHYLENE-24-DIHYDRO-LANOSTEROL	Seed Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	24-METHYL-CHOLESTEROL	Seed Oil				--
0	24-ETHYL-CHOLESTEROL	Seed Oil				--
0	24-ETHYL-24(25)-DEHYDRO-CHOLESTEROL	Seed Oil				--
0	24-ETHYL-22-TRANS-DEHYDRO-CHOLESTEROL	Seed Oil				--
0	22-TRANS-DEHYDRO-24-METHYL-CHOLESTEROL	Seed Oil				--
0	20-GLUCOSYL-GINSENOSIDE	Flower				--
0	20-GLUCOSYL-GINSENOSIDE	Root		50.0		--
0	20-GLUCO-GINSENOSIDE	Leaf				--
0	20-(S)-DIHYDRO-PROTOPANAXATRIONE	Root				--
0	20(S)-PROTOPANAXADIOL-3-O-BETA-D-GLUCOPYRANOSIDE	Root		10.0		--
0	20(S)-GINSENOSIDE-RH-2	Leaf		7.0		--
0	20(R)-PROTOPANAXATRIOL	Leaf	1.4	12.5		--
0	20(R)-PROTOPANAXATRIOL	Fruit				--
0	20(R)-PROTOPANAXADIOL	Leaf	0.1	1.4		--
0	20(R)-GINSENOSIDE-RH-2	Leaf	6.7	10.0		--
0	20(R)-GINSENOSIDE-RH-2	Shoot				--
0	20(R)-GINSENOSIDE-RH-1	Fruit				--
0	20(R)-GINSENOSIDE-RH-1	Rhizome				--
0	20(R)-GINSENOSIDE-RG-3	Fruit				--
0	2-SEC-BUTYL-3-METHOXY-PYRAZINE	Root				--
0	2-METHYL-TETRADECANE	Root Essent. Oil		29000.0		--
0	2-METHYL-HEXANOIC-ACID-EHTYL-ESTER	Root				--
0	2-METHYL-3-O-BETA-D-GLUCOSIDE-PYR-4-ONE	Plant				--
0	2-KETO-OCTA-TRANS-3-TRANS-5-DIENE	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2-ISO-PROPYL-5-METHYL-ANISOLE	Root				--
0	2-ISO-PROPYL-3-METHOXY-PYRAZINE	Root				--
0	2-ISO-BUTYL-3-METHOXY-PYRAZINE	Root				--
0	2-GLUCOGINSENOSIDE-RF	Root		50.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	2-ETHYL-6-METHYL-PYRAZINE	Root				--
0	2-ETHYL-5-METHYL-PYRAZINE	Root				--
0	2-ETHANOYL-FURAN	Shoot				--
0	2-ACETYL-PYRROLE	Shoot				--
0	2-6-DITERT-BUTYL-4-METHYL-PHENOL	Flower Essent. Oil		14000.0		--
0	2-6-DITERT-BUTYL-4-METHYL-PHENOL	Root Essent. Oil		14000.0		--
0	2-6-DIMETHYL-6-(4-METHYL-3-PENTENYL)-BICYCLO-(3.1.1)-HEPT-2-ENE	Flower Essent. Oil				--
0	2-6-DIETHYL-PYRAZINE	Root				--
0	2-5-DIMETHYL-TRIDECANE	Root Essent. Oil				--
0	2-5-DIMETHYL-TRIDECANE	Plant				--
0	2-3-3-TRIMETHYL-PENTA-1-4-DIENE	Shoot				--
0	10-ACETYL-PANAXYTRIOL	Root				--
0	1-O-ALPHA-GLUCOSIDE-PROPAN-2-ON-1-OL	Root				--
0	1-ETHOXY-PENTANE	Shoot				--
0	1-ETHOXY-BUTANE	Shoot				--
0	1-2-DIBUTYL-PHENYL-FORMATE	Shoot				--
0	1-1-DIETHOXY-ETHANE	Shoot				--
0	1,8-CINEOL	Root Essent. Oil				--
0	1,3-DIMETHYL-BENZENE	Shoot				--
0	(-)-BETA-PANASINSENE	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	(+)-CAMPHENE	Shoot				--
0	(+)-BETA-BISABOLENE	Shoot				--
0	(+)-AROMADENDRENE	Shoot				--