

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Panax ginseng

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CARBOHYDRATES	Root	176808.0	834000.0	0.050849387570411526	--
0	WATER	Root		788000.0	0.12275678708782596	--
0	FIBER(DIETARY)	Root		301000.0	-1.0640221212316432	--
13	GINSENOSEIDE-RG-1	Fruit	400.0	287200.0		--
14	SUCROSE	Root	1300.0	226000.0	1.0351788500330728	--
2	MALTOSE	Root	5100.0	199600.0	1.0	--
13	PALMITIC-ACID	Leaf Essent. Oil		160000.0		--
13	PALMITIC-ACID	Stem Essent. Oil		160000.0		--
5	GINSENOSEIDE-RE	Leaf	15.0	151200.0	1.0	--
5	BETA-ELEMENE	Root Essent. Oil		150000.0	1.0	--
0	GUM	Root	27560.0	130000.0	0.9757626125530419	--
5	SAPONINS	Leaf		128000.0	1.3249298643249272	--
5	STARCH	Root	25440.0	120000.0	-0.818804895582863	--
0	PROTEIN	Root	23108.0	109000.0	-0.10570538573840164	--
0	GAMMA-ELEMENE	Root Essent. Oil	60000.0	100000.0	1.0	--
0	SUGARS	Root	19080.0	90000.0	-0.13436730873315797	--
13	PALMITIC-ACID	Root Essent. Oil		86000.0	1.2911413065205417	--
0	BETA-FARNESENE	Root Essent. Oil		85000.0	-1.0	--
5	GINSENOSEIDE-RE	Root	680.0	84800.0	1.0	--
14	GINSENOSEIDE-RB-1	Root	1700.0	83000.0	1.0	--
2	TRANS-BETA-FARNESENE	Root Essent. Oil		80000.0	0.947568920739301	--
3	BETA-SELINENE	Root Essent. Oil		80000.0		--
13	GINSENOSEIDE-RG-1	Leaf	5.0	72200.0	1.0	--
15	FIBER	Root		72000.0	-0.35781867764508235	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FIBER(CRUDE)	Root		72000.0	-1.1616741196232196	--
5	SAPONINS	Flower		69000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	GINSENOSIDE-RD	Fruit	1000.0	68800.0		--
3	GINSENOSIDE-RD	Leaf	11.0	65800.0	1.0	--
0	BETA-GURJUNENE	Root Essent. Oil		60000.0	-1.0	--
5	GINSENOSIDE-RE	Fruit	25000.0	60000.0		--
5	GINSENOSIDE-RE	Flower	25000.0	60000.0		--
13	GINSENOSIDE-RG-1	Root	320.0	58400.0	1.0	--
8	GINSENOSIDE-RB-2	Leaf	11.0	58300.0	1.0	--
0	ALPHA-GUAIENE	Flower Essent. Oil		55000.0		--
0	ASH	Root	10600.0	50000.0	-0.5013998487298318	--
0	GINSENOSIDE	Root		47000.0		--
0	HEPTADECAN-2-ONE	Root Essent. Oil		43000.0		--
0	BETA-FARNESENE	Flower Essent. Oil		43000.0		--
0	PANAX-POLYSACCHARIDE	Root	30000.0	40000.0		--
5	SAPONINS	Stem	16000.0	40000.0		--
1	GINSENOSIDE-RB	Root	11300.0	40000.0		--
0	ALPHA-GUAIENE	Root Essent. Oil		40000.0	1.0	--
4	GINSENOSIDE-RF	Leaf	24100.0	38300.0		--
6	GINSENOSIDE-RC	Leaf	3.5	37700.0	1.0	--
6	GINSENOSIDE-RC	Fruit	1000.0	36700.0		--
4	GINSENOSIDE-R-O	Rhizome	18000.0	34000.0		--
1	GINSENOSIDE-RG	Root Bark		34000.0		--
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.
18	GINSENOSIDES	Root	10720.0	30000.0	-0.8754149693562976	--
8	GINSENOSIDE-RB-2	Fruit	200.0	29500.0		--
5	BETA-ELEMENE	Flower Essent. Oil		29000.0		--
0	2-METHYL-TETRADECANE	Root Essent. Oil		29000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	GINSENSIDE-RG-2	Root	100.0	26700.0	1.0	--
6	GINSENSIDE-RC	Root	500.0	25000.0	1.0	--
2	HUMULENE	Root Essent. Oil		24000.0	1.0	--
0	GINSENSIDE-RB-C	Root Bark		24000.0		--
0	EREMOPHILENE	Root Essent. Oil		23000.0		--
8	GINSENSIDE-RB-2	Root	100.0	23000.0	1.0	--
3	GINSENSIDE-RD	Root	380.0	21200.0	1.0	--
0	HEPTADECAN-2-ONE	Leaf Essent. Oil		20000.0		--
0	HEPTADECAN-2-ONE	Stem Essent. Oil		20000.0		--
2	PATCHOULENE	Root Essent. Oil		20000.0		--
5	SAPONINS	Root		20000.0	-0.6445017907060011	--
0	HEPTADECAN-1-OL	Root Essent. Oil		19000.0		--
0	GINSENSIDE-F2	Leaf	2000.0	18400.0		--
0	N-PENTADECANE	Root Essent. Oil		18000.0		--
0	FAT	Root	3752.0	17700.0	-0.172739674548991	--
1	GINSENSIDE-RG	Tissue Culture	12200.0	17300.0		--
1	GINSENSIDE-RG	Root	4600.0	16300.0		--
1	GINSENSIDE-RB	Tissue Culture	13100.0	15900.0		--
3	GINSENSIDE-RD	Shoot		15000.0	1.0	--
13	GINSENSIDE-RG-1	Shoot		15000.0	1.0	--
0	MONOSACCHARIDES	Root		15000.0		Chemical Constituents of Oriental Herbs (3 diff. books)
5	GINSENSIDE-RE	Shoot		15000.0	1.0	--
7	GLUCOSE	Stem		14700.0		--
0	2-6-DITERT-BUTYL-4-METHYL-PHENOL	Root Essent. Oil		14000.0		--
0	GINSENSIDE-RB-C	Root		14000.0		--
0	ALPHA-FARNESENE	Flower Essent. Oil		14000.0		--
14	GINSENSIDE-RB-1	Rhizome	8800.0	14000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	2-6-DITERT-BUTYL-4-METHYL-PHENOL	Flower Essent. Oil		14000.0		--
0	MALONYL-GINSENOSE-RB-1	Rhizome	6900.0	13000.0		--
0	MALONYL-GINSENOSE-RB-1	Root	2730.0	13000.0		--
4	GINSENOSE-R-O	Root	100.0	11000.0	1.0	--
0	MALONYL-GINSENOSE-RB-2	Root	1370.0	11000.0		--
4	GINSENOSE-RF	Root	200.0	9200.0		--
7	GLUCOSE	Root	100.0	9000.0	-0.5544082656198722	--
0	MALONYL-GINSENOSE-RC	Root	1000.0	8400.0		--
14	GINSENOSE-RB-1	Leaf	9.0	8000.0	1.0	--
0	PANAXATRIOL	Root	700.0	7700.0	-1.0	--
4	GINSENOSE-RF	Fruit		6900.0		--
0	PANAXADIOL	Root	700.0	6500.0	-1.0	--
8	FRUCTOSE	Leaf		6500.0	-1.351589051251948	--
14	SUCROSE	Leaf		6400.0	-0.9162072066569106	--
8	FRUCTOSE	Root	200.0	6000.0	-0.4913954846191467	--
7	GLUCOSE	Leaf		5800.0	-0.5922731387025567	--
5	GINSENOSE-RE	Rhizome	4700.0	5700.0		--
8	GINSENOSE-RB-2	Rhizome	4500.0	5700.0		--
3	GINSENOSE-RD	Flower	1000.0	5000.0		--
0	GINSENOSE-F2	Fruit		5000.0		--
6	GINSENOSE-RC	Rhizome		4700.0		--
13	GINSENOSE-RG-1	Rhizome	3800.0	4500.0		--
0	MALONYL-GINSENOSE-RB-2	Rhizome	4000.0	4200.0		--
0	GINSENOSE-F-1	Leaf		4000.0		--
8	GINSENOSE-RB-2	Shoot		4000.0	1.0	--
0	GINSENOSE-F-1	Shoot		4000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	GINSENOSE-RB-2	Stem		3970.0		--
14	SUCROSE	Stem		3500.0		--
0	MALONYL-GINSENOSE-RC	Rhizome	3400.0	3500.0		--
13	GINSENOSE-RG-1	Pt	1000.0	3270.0		--
13	GINSENOSE-RG-1	Flower	400.0	3000.0		--
13	GINSENOSE-RG-1	Stem		2920.0		--
28	CALCIUM	Root	611.0	2880.0	-0.4953286858004708	--
0	KILOCALORIES	Root		2740.0	-1.3796935435329993	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
14	POTASSIUM	Root	515.0	2430.0	-0.9774436969784575	--
8	GINSENOSE-RB-2	Flower		2000.0		--
6	GINSENOSE-RC	Shoot		2000.0		--
20	CHOLINE	Root	1000.0	2000.0	-0.17667432573797054	--
14	GINSENOSE-RB-1	Flower		2000.0		--
14	GINSENOSE-RB-1	Bud		2000.0		--
0	GINSENOSE-F2	Shoot		2000.0		--
6	GINSENOSE-RC	Flower	672.0	2000.0		--
0	GINSENOSE-F3	Shoot		2000.0		--
0	GINSENOSE-F3	Leaf		2000.0		--
6	GINSENOSE-RC	Pt		1900.0		--
8	FRUCTOSE	Stem		1800.0		--
3	GINSENOSE-RD	Rhizome	700.0	1600.0	-1.0	--
4	GINSENOSE-RF	Rhizome		1500.0		--
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.
5	GINSENOSE-RE	Pt	600.0	1410.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
2	MALTOSE	Stem		1300.0		--
0	MALONYL-GINSENOSE- RD	Root	400.0	1200.0		--
3	GINSENOSE-RD	Pt	100.0	1070.0		--
14	GINSENOSE-RB-1	Shoot		1000.0		--
0	BETA-FARNESENE	Stem		1000.0		--
0	BETA-FARNESENE	Leaf		1000.0	0.3101066332955471	--
0	GYPENOSIDE-XVII	Tissue Culture		960.0		--
0	GINSENOSE-F4	Leaf		746.2		--
64	OLEANOLIC-ACID	Root	150.0	700.0	0.845493216306878	--
1	GINSENOSE-RG	Stem		700.0		--
5	GINSENOSE-RE	Stem		700.0		--
4	PHOSPHORUS	Root	112.0	528.0	-0.5253256654441569	--
0	EO	Root	100.0	500.0	-0.631241020868696	--
65	MAGNESIUM	Root	102.0	481.0	-1.107068199242284	--
1	PANAXYDOL	Root	357.1	440.0	-1.0	--
0	GERMANIUM	Root	0.12	320.0	1.0	--
3	GINSENOSE-RG-2	Leaf	67.0	317.5		--
16	FALCARINOL	Root	0.9	310.0	1.4051395916147116	--
0	GINSENOSE-RA-1	Root	100.0	300.0		--
0	GINSENOSE-RA	Root	100.0	300.0		--
0	GINSENOSE-M-7	Flower		300.0		--
0	GINSENOSE-RA-2	Root		300.0		--
0	GINSENOSE-F3	Flower		300.0		--
1	PANAXYTRIOL	Root	14.2	250.0	0.9999999999999999	--
0	GINSEAN-PA	Root		235.0		--
2	GINSENOSE-RG-3	Leaf	25.0	195.0		--
0	GINSEAN-PB	Root		170.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEPTADEC-1-EN-4,6-DIYNE-3,9-DIOL	Root		150.0		--
0	HEPTADECA-1-EN-4,6-DIYN-3,9-DIOL	Root		150.0		Chemical Constituents of Oriental Herbs (3 diff. books)
27	LINOLEIC-ACID	Root		140.0	-1.1111121238776438	--
2	GINSENOSE-RB-3	Flower		136.0		--
2	GINSENOSE-RH1	Leaf	12.5	135.0		--
0	GINSENOSE-S-I-A	Root		106.6		--
0	GINSENOSE-S-II-A	Root		90.0		--
28	ADENOSINE	Root		90.0	1.0	--
39	NIACIN	Root	17.0	80.0	0.8625453013144426	--
24	VANILLIC-ACID	Root		55.0	0.9214964116563734	--
0	2-GLUCOGINSENOSE-RF	Root		50.0		Chemical Constituents of Oriental Herbs (3 diff. books)
0	20-GLUCOSYL-GINSENOSE	Root		50.0		--
1	PANAXACOL	Tissue Culture	37.0	50.0		--
2	GINSENOSE-RB-3	Root		50.0	-1.0	--
0	GINSENOSE-RA-3	Root		50.0		--
0	BENZYL-BETA-PRIMEVEROSIDE	Root		47.0		--
0	SPINACINE	Root		33.3		--
2	GINSENOSE-RG-3	Root	3.0	30.0		--
3	FLUORIDE	Root		26.3	1.7190337938896858	--
1	P-HYDROXYCINNAMIC-ACID	Root		26.0		--
1	SODIUM	Root	5.0	24.0	-0.5015977269170404	--
5	ALUMINUM	Root	5.0	22.0	-0.30067595885157333	--
7	HISTIDINE	Root		20.0	-1.7257014002319866	--
0	QUINQUENOSIDE-R-1	Root		20.0	-1.0	--
0	NOTOGINSENOSE-R-1	Root		20.0		--
0	ALPHA-PANASINSENE	Root		17.6		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Root		17.0	0.5844884448285068	--
4	TIN	Root	3.4	16.0	-0.0494227816847916	--
0	SPATHULENOL	Plant		15.9	-0.5352938495785399	--
2	GINSENSIDE-RH1	Root		15.0		--
0	HEPTADECA-1-8-DIENE-4-6-DIYNE-3-10-DIOL	Root		14.6	-1.0000000000000067	--
0	GINSENOYNE-K	Root		14.1		--
0	PANAXYDOL-CHLOROHYDRIN	Root		13.5		--
0	GINSENOYNE-A	Root		12.8		--
0	PANASINSANOL-B	Root		12.5		--
0	20(R)-PROTOPANAXATRIOL	Leaf	1.4	12.5		--
0	GINSENSIDE-F	Leaf		12.5		--
0	NEO-INTERMEDEOL	Plant		10.4		--
0	BETA-PANASINSENE	Root		10.2		--
0	GINSENSIDE-M-7-ED	Flower		10.0		--
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	20(R)-GINSENSIDE-RH-2	Leaf	6.7	10.0		--
0	20(S)-PROTOPANAXADIOL-3-O-BETA-D-GLUCOPYRANOSIDE	Root		10.0		--
0	GINSENL	Root		9.6		--
0	PANAXYNE-EPOXIDE	Root	1.8	9.0		--
0	PANAXYDOL-LINOLEATE	Root		8.1		--
1	PANAXYDOL	Tissue Culture		8.0		--
0	POLYSACCHARIDE-GL-P-II	Leaf		8.0		--
0	GINSENOYNE-D	Root		7.1		--
0	GINSENOYNE-E	Root		7.1		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	20(S)-GINSENOSE-RH-2	Leaf		7.0		--
11	PANTOTHENIC-ACID	Root		6.6	-1.5734087317737453	--
0	GINSENOSE-L-A	Leaf	2.0	6.5		--
0	HEPTADECA-1-TRANS-8-DIENE-4-6-DIYNE-3-10-DIOL	Root		5.2		--
0	GINSENOSE-RH-3	Leaf	2.9	5.0		--
0	POLYSACCHARIDE-GL-P-I	Leaf		5.0		--
0	GINSENOSE-RG-4	Leaf	0.16	4.5		--
0	DAUCOSTERINE	Leaf		3.8		--
0	GINSENOYNE-J	Root		3.5		--
34	SALICYLIC-ACID	Root		3.4	-1.0	--
2	COBALT	Root	0.7	3.1	-0.477922970663694	--
0	AROMADENDRANE-4-BETA-10-ALPHA-DIOL	Plant		3.0		--
0	CHLORO-PANAXYDIOL	Tissue Culture		3.0		--
0	GINSENOYNE-A-LINOLEATE	Root		2.8		--
0	GINSENOYNE-I	Root		2.6		--
0	GINSENOYNE-F	Root		2.6		--
60	SELENIUM	Root	0.5	2.5	-0.18461140397934853	--
0	3-DIHYDRO-PANAXACOL	Tissue Culture		2.5		--
0	POLYSACCHARIDE-GL-P-IV	Leaf		2.4		--
0	PANASINSANOL-A	Root		2.3		--
0	POLYSACCHARIDE-GL-P-III	Leaf		2.2		--
0	ACETYL-PANAXYDOL	Root		2.1	-1.0000000000000002	--
1	DIHYDROPANAXACOL	Tissue Culture		2.0		--
0	DAMMARAN-3-BETA-6-ALPHA-12-BETA-20(R)-25-PENTAOL	Shoot		2.0		--
14	MANGANESE	Root	0.4	1.9	-0.5231856000816221	--
15	RIBOFLAVIN	Root	0.4	1.8	-0.49776655351897503	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
0	PERLOLYRINE	Root		1.6		--
0	GINSENOYNE-B	Root		1.5		--
0	HEPTADEC-1-ENE-4-6-DIYNE-3-9-10-TRIOL	Root		1.5		--
0	GINSENOYNE-H	Root		1.47		--
0	20(R)-PROTOPANAXADIOL	Leaf	0.1	1.4		--
0	PANAXYNOL-LINOLEATE	Root		1.3		--
0	GINSENOYNE-C	Root		1.1		--
24	CHROMIUM	Root	0.2	1.1	-0.34069526376445175	--
4	BIOTIN	Root		0.9		--
0	GINSENOYNE-RH-2	Shoot		0.4		--
0	GINSENOYNE-G	Root		0.176	-1.0	--
0	N-9-FORMYL-HARMAN	Root		0.1		--
112	ASCORBIC-ACID	Root		0.0	-0.6459735820044326	--
8	GLUTAMIC-ACID	Leaf				--
4	LYSINE	Leaf				--
0	PANAX-POLYSACCHARIDE-GL-AI-A	Leaf				--
0	POLYSACCHARIDE	Rhizome				--
5	SUPEROXIDE-DISMUTASE	Root				--
0	PANAXATRIOL	Leaf				--
0	GINSENOYNE-RH	Shoot				--
0	TRIPALMITIN	Root				--
0	PANAX-SAPONIN-C	Root				--
0	RHAMNOSE	Root				--

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.
0	ALPHA-FRUCTOSE	Root				--
13	BETA-EUDES MOL	Plant				--
0	LYSOPHOSPHATIDYLCHOLINE	Root				--
0	ALPHA-BERGAMOTENE	Shoot				--
16	ACETIC-ACID	Shoot				--
1	PANACENE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
5	DAUCOSTEROL	Rhizome				--
0	CIS-CARYOPHYLLENE	Root Essent. Oil				--
3	AROMADENDRENE	Plant				--
3	AROMADENDRENE	Flower Essent. Oil				--
0	STIGMASTEROL-6'-LINOLYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	20(R)-GINSENOSIDE-RH-1	Rhizome				--
2	NORHARMAN	Root				--
2	MOLYBDENUM	Pt				--
0	2-SEC-BUTYL-3-METHOXY-PYRAZINE	Root				--
3	XYLOSE	Root				--
14	GINSENOSIDE-RB-1	Root Bark				--
3	VALINE	Root				--
15	MALIC-ACID	Root				--
0	GINSENOSIDE-RC-2	Root				--
7	GLUCOSE	Tissue Culture				--
0	KINETIN	Tissue Culture				--
0	PANAX-GINSENG-PROTEIN	Root				--
0	PANAXAN-P	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SESQUITERPENEDIOL	Root				--
0	BICYCLO-(2.1.0)-PENTANE-5-CARBOXYLIC-ACID-1-METHYL-ETHYL-ESTER	Shoot				--
2	MOLYBDENUM	Stem				--
0	GINSENSIDE-FD-2	Flower				--
0	BETA-MAALIENE	Shoot				--
11	NICOTINIC-ACID	Root				--
0	ALPHA-SANTALENE	Flower Essent. Oil				--
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.
5	GINSENSIDE-RE	Fruit Juice				--
3	CYCLOEUCALENOL	Seed Oil				--
23	CITRIC-ACID	Root				--
7	PHENYLALANINE	Root				--
4	GINSENSIDE-RF	Shoot				--
0	9-10-EPOXY-HEPTADEC-1-16-DIENE-4-6-DIYN	Root				--
15	METHIONINE	Leaf				--
0	TRACE-ELEMENTS	Root				--
0	ALLO-AROMADENDRENE	Shoot Essent. Oil				--
0	PROTOPANAXADIOL	Root				--
6	IRON	Leaf				--
0	PANAX-GINSENG-GENIN-F-1	Root				--
1	PANAXAN-D	Root				--
0	SAPONIN-V	Root				--
60	LIMONENE	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
18	GINSENOSES	Tissue Culture				--
0	GALANIN	Root				--
0	EREMOPHIL-1-(10)-11-ENE	Shoot				--
12	COPPER	Inflorescence				--
0	BETA-CARYOPHYLENE	Shoot				--
8	GLUTAMIC-ACID	Root				--
15	LUTEIN	Leaf				--
0	PANAX-POLYSACCHARIDE-GL-4	Root				--
0	POLYSACCHARIDE	Root				--
0	PANAXAN-U	Root				--
0	GINSENOSE-RA	Shoot				--
0	GINSENOSE-RH	Root				--
0	TRIPALMITIN	Rhizome				--
0	PHEOPHYTIN	Leaf				--
1	PYRUVIC-ACID	Root				--
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.
1	HEPTADECANOIC-ACID	Root				--
0	28-ISOFUCOSTEROL	Seed Oil				--
0	BETA-ELEMENENE	Flower Essent. Oil				--
0	GLYCO-DEOXY-CHOLIC-ACID	Root				--
0	1,3-DIMETHYL-BENZENE	Shoot				--
77	ZINC	Root				--
1	CHOLESTEROL	Seed Oil				--
0	GINSENOSE	Plant				--
0	STIGMASTEROL-6'-LINOLENYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	20(R)-GINSENOSE-3	Fruit				--
0	N-FORMYL-HARMAN	Root				--
2	MOLYBDENUM	Fruit				--
0	2-ISO-PROPYL-3-METHOXY-PYRAZINE	Root				--
0	VITAMIN-B12	Root				--
4	THREONINE	Root				--
6	GINSENOSE-RC	Tissue Culture				--
0	KARUSAN-E	Root				--
0	PANAX-GINSENG-POLYACETYLENE-G	Root				--
0	PANAXAN-O	Root				--
1	SERINE	Leaf				--
6	BETA-BISABOLENE	Plant				--
15	METHIONINE	Root				--
0	GINSENG-POLYPEPTIDE-GPP	Root				--
76	EUGENOL	Root Essent. Oil				--
7	CYCLOARTENOL	Seed Oil				--
2	PHENYL-ACETALDEHYDE	Shoot				--
0	9-10-EPOXY-HEPTADEC-1-16-DIENE-4-6-DIYN-3-ONE	Root				--
0	PHOSPHATIDYL-INOSITOL	Root				--
0	2-3-3-TRIMETHYL-PENTA-1-4-DIENE	Shoot				--
0	TRIMETHYL-PYRAZINE	Root				--
1	TOLUENE	Shoot				--
2	TRANS-BETA-FARNESENE	Plant				--
2	HUMULENE	Leaf Essent. Oil				--
0	PANAX-GINSENG-20(S)-PROSAPOGENIN	Root				--
1	PANAXAN-C	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SAPONIN-IV	Plant				--
60	LIMONENE	Root Essent. Oil				--
1	GALACTOSE	Root				--
3	ELEMENE	Root				--
12	COPPER	Fruit				--
0	BETA-CARYOPHYLLENE	Flower Essent. Oil				--
0	GINSENSIDE-NG-R-2	Root				--
2	GINSENSIDE-RG-3	Shoot				--
0	PHENOLASE	Root				--
2	PYROGLUTAMIC-ACID	Root				--
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	1-2-DIBUTYL-PHENYL-FORMATE	Shoot				--
53	CITRAL	Root Essent. Oil				--
0	(+)-AROMADENDRENE	Shoot				--
0	BETA-SITOSTERYL-GLUCOSIDE	Plant				--
0	OCTACOSAN-1-OL	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	GINSENSIDE-RD-2	Embryo				--
0	BETA-GURJUNENE	Plant				--
21	LUPEOL	Seed Oil				--
0	PANAX-POLYSACCHARIDE-GH-1	Root				--
0	ISO-PROPYL-PROPIONATE	Root				--
5	DAUCOSTEROL	Tissue Culture				--
0	PANAXAN-Q	Root				--
0	CHOLESTA-3-5-DIENE	Shoot				--
7	FUMARIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
14	ARGININE	Leaf				--
2	MOLYBDENUM	Leaf				--
0	BETA-PATCHOULENE	Root				--
0	2-ISO-BUTYL-3-METHOXY-PYRAZINE	Root				--
0	VICILIN	Endosperm				--
14	GINSENSIDE-RB-1	Seed				--
8	STEARIC-ACID	Root				--
0	KARUSAN-D	Root				--
0	PANAX-GINSENG-POLYACETYLENE-F	Root				--
0	PANAXAN-N	Root				--
1	SERINE	Root				--
0	BETA-AMYLASE	Root				--
14	MANGANESE	Pt				--
0	GINSENG-POLYPEPTIDE	Root				--
1	ETHYLENE	Plant				--
0	BETA-CUBEBENE	Shoot				--
0	DIHYDROACTINIDIOLIDE	Shoot				--
0	6-METHYL-2-KETO-HEPTA-3-5-DIENE	Shoot				--
0	MAYURONE	Plant				--
0	10-ACETYL-PANAXYTRIOL	Root				--
0	PUTRESCINE	Root				--
0	THUJ-4(10)-ENE	Root				--
2	PHOSPHATIDYL-CHOLINE	Root				--
0	POLYSACCHARIDE	Tissue Culture				--
0	GINSENSIDE-RB-2-C	Root				--
1	INDOLE-ACETIC-ACID	Tissue Culture				--
1	PANAXAN-B	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SAPONIN-IV	Root				--
31	CARYOPHYLLENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	GINSENSIDE-R-O	Flower				--
0	GADOLEIC-ACID	Root				--
0	ALPHA-COPAENE	Flower Essent. Oil				--
0	BETA-BOURBONENE	Shoot				--
0	PRO-RENIN	Root				--
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.
5	BETA-ELEMENE	Shoot				--
0	(+)-CAMPHENE	Shoot				--
0	ETHYLBENZENE	Shoot				--
0	BETA-SITOSTEROL-3-O-BETA-D-GLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
2	TRIFOLIN	Leaf				--
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	GINSENSIDE-RD-2	Root				--
0	LINOLEOYL-BETA-D-GLUCOSIDE	Tissue Culture				--
0	PANAX-POLYSACCHARIDE	Tissue Culture				--
0	ISO-BUTYL-PROPIONATE	Root				--
14	SUCROSE	Rhizome				--
0	PANAXAN-M	Root				--
0	CEREBROSIDE	Root				--
14	ARGININE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SITOSTEROL-6'-STEARYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	20-GLUCOSYL-GINSENOSE	Flower				--
0	HEPTADEC-1-4-DIENE-6-8-DIYNE-3-10-DIOL	Root				--
2	MOLYBDENUM	Root				--
0	BETA-PATCHOULENE	Root Essent. Oil				--
0	2-ETHYL-6-METHYL-PYRAZINE	Root				--
10	SQUALENE	Seed Oil				--
6	GINSENOSE-RC	Seed				--
0	KARUSAN-C	Root				--
0	PANAX-GINSENG-POLYACETYLENE-E	Root				--
0	PANAXAN-L	Root				--
0	SELINA-4(14),7(11)-DIENE	Root Essent. Oil				--
0	AVENASTEROL	Seed Oil				--
14	MANGANESE	Leaf				--
24	ETHANOL	Shoot				--
0	BETA-CUBEBENE	Flower Essent. Oil				--
24	PECTIN	Root				--
0	6-METHYL-HEPT-6-EN-2-ONE	Shoot				--
0	MAYURONE	Root Essent. Oil				--
0	1-ETHOXY-PENTANE	Shoot				--
0	PROLINE	Leaf				--
4	THREONINE	Leaf				--
0	GLYCO-CHENODEOXYCHOLIC-ACID	Root				--
0	PHOSPHATIDIC-ACID	Root				--
0	INDOLE-3-ACETYL-ASPARTATE	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-PANASINSENE	Root Essent. Oil				--
1	PANAXAN-A	Root				--
0	SAPONIN-III	Tissue Culture				--
31	CARYOPHYLLENE	Root Essent. Oil				--
2	GINSENOSE-RH1	Tissue Culture				--
0	FURALDEHYDE	Shoot				--
0	1,8-CINEOL	Root Essent. Oil				--
0	BETA-BOURBONENE	Flower Essent. Oil				--
3	ALANINE	Leaf				--
0	GINSENOSE-M-7-B	Flower				--
3	GINSENOSE-RG-2	Shoot				--
0	PELARGONIDIN-3-MONOGLUCOSIDE	Fruit Epidermis				--
0	GAMMA-SELINENE	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	PHOSPHATIDYL-ETHANOLAMINE	Root				--
5	DAUCOSTEROL	Fruit				--
0	1-ETHOXY-BUTANE	Shoot				--
0	MALEIC-ACID	Root				--
24	BENZALDEHYDE	Shoot				--
3	AROMADENDRENE	Root Essent. Oil				--
47	BETA-SITOSTEROL	Root				--
0	BETA-MAALIENE	Root				--
2	NICOTINAMIDE	Root				--
0	PANAXOSIDE-F	Root				--
0	ALPHA-SANTALENE	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2-5-DIMETHYL-TRIDECANE	Root Essent. Oil				--
8	GINSENSIDE-RB-2	Seed				--
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.
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.
3	GINSENSIDE-RD	Tissue Culture				--
0	BETA-GUAIENE	Plant				--
0	LINOLENIC-ACID	Root				--
0	1-O-ALPHA-GLUCOSIDE-PROPAN-2-ON-1-OL	Root				--
7	SUCCINIC-ACID	Root				--
2	CYSTINE	Root				--
0	PANAX-SAPONIN-A	Root				--
0	GINSENSIDE-FC-3	Flower				--
0	CELLULASE	Root				--
0	ARACHIDIC-ACID	Root				--
0	SITOSTEROL-6'-PALMITYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	20-GLUCO-GINSENSIDE	Leaf				--
0	METHYL-6,9-DIALKYNE-OCTADECATE	Shoot				--
28	ALPHA-PINENE	Root Essent. Oil				--
0	2-ETHYL-5-METHYL-PYRAZINE	Root				--
3	VALINE	Leaf				--
14	GINSENSIDE-RB-1	Tissue Culture				--
1	SPERMIDINE	Root				--
0	KARUSAN-B	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PANAX-GINSENG-POLYACETYLENE-D	Root				--
0	PANAXAN-K	Root				--
0	EPSILON-MUUROLENE	Plant				--
8	ESTRONE	Root				--
0	ALPHA-GAMMA-DIPALMITIN	Root				--
0	GINSENOSE-RE-3	Root				--
0	3-9-10-TRIACTOXY-HEPTADEC-1-16-DIENE-4-6-DIYNE	Root				--
18	MANNITOL	Root				--
0	PANAX-PROTEIN	Root				--
0	PROLINE	Root				--
0	4-METHYL-THIAZOLE-5-ETHANOL	Root				--
1	PENTADECANOIC-ACID	Root				--
7	INDOLE-3-ACETIC-ACID	Tissue Culture				--
0	PANAXADIOL-SAPONIN	Shoot				--
0	SAPONIN-III	Root				--
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.
0	BETA-FRUCTOSE	Root				--
0	24-METHYL-CHOLESTEROL	Seed Oil				--
0	(+)-BETA-BISABOLENE	Shoot				--
3	ALANINE	Root				--
3	GINSENOSE-RG-2	Flower				--
0	HEPTADEC-1-9-DIEN-4-6-DIYN-3-OL	Root				--
13	PALMITIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PERLARGONIDIN-3-O-BETA-D-GLUCOSIDE	Root				--
0	DI-ISO-PROPYL-SULFIDE	Root				--
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	PHENYLETHANOL	Shoot				--
5	DAUCOSTEROL	Root				--
0	TRANS-CARYOPHYLLENE	Plant				--
1	BEHENIC-ACID	Root				--
0	ALLO-AROMADENDRENE	Shoot				--
5	BETA-ELEMENE	Root				--
0	BETA-MAALIENE	Flower Essent. Oil				--
0	NERVONIC-ACID	Root				--
0	PANAXOSIDE-D	Root				--
0	ALPHA-PYRROLIDONE	Root				--
0	2-5-DIMETHYL-TRIDECANE	Plant				--
8	GINSENSIDE-RB-2	Tissue Culture				--
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.
0	BETA-GUAIENE	Root Essent. Oil				--
0	LINOLEIN	Root				--
0	PANAX-POLYPHENOLIC-PERMETHYL-ETHER	Root				--
0	PANAXATRIOL-SAPONIN	Shoot				--
12	STIGMASTEROL	Root				--
12	COPPER	Stem				--
0	PANAX-POLYSACCHARIDE-GL-NI-B	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	AMINO-ACIDS	Flower				--
0	SITOSTEROL-6'-OLEYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	MALONYL-GINSENOSE-IRD	Rhizome				--
0	HEPTADEC-1-EN-4,6-DIYNE-3,9,10-TRIOL	Root				--
0	EPSILON-MUUROLENE	Root Essent. Oil				--
28	ALPHA-PINENE	Root				--
0	2-6-DIETHYL-PYRAZINE	Root				--
0	URIDINE	Root				--
14	GINSENOSE-RB-1	Embryo				--
0	SENECRASSIDIOL	Root				--
6	GINSENOSE-RC	Embryo				--
0	KARUSAN-A	Root				--
0	PANAX-GINSENG-POLYACETYLENE-C	Root				--
0	PANAXAN-J	Root				--
0	ALPHA-MALTOSE	Root				--
6	ESTRIOL	Root				--
0	ALPHA-CUBEBENE	Shoot				--
1	CARYOPHYLLENE-ALCOHOL	Root Essent. Oil				--
3	PANAXYNOL	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	GINSENOSE-RE-2	Root				--
0	PHOSPHATIDYL-GLYCEROL	Root				--
14	MANGANESE	Stem				--
0	PANAX-POLYSACCHARIDE-S-2-A	Stem				--
0	POLYSACCHARIDE-SB	Root				--
0	GINSENOSE-M-7-A	Flower				--
0	GINSENOSE-Z-R-1	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SAPONIN-II	Tissue Culture				--
18	TERPINEOL	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
2	GINSENOSE-RH1	Shoot				--
0	2-ETHANOYL-FURAN	Shoot				--
0	24-ETHYL-CHOLESTEROL	Seed Oil				--
0	2-6-DIMETHYL-6-(4-METHYL-3-PENTENYL)-BICYCLO-(3.1.1)-HEPT-2-ENE	Flower Essent. Oil				--
0	CAMPESTEROL-6'-STEARYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	GINSENOSE-M-6	Flower				--
3	GINSENOSE-RG-2	Rhizome				--
13	PALMITIC-ACID	Root				--
24	PECTIN	Plant				--
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.
0	GAMMA-ELEMENE	Plant				--
0	DAUCOSTERINE	Root				--
0	1-1-DIETHOXY-ETHANE	Shoot				--
0	TRANS-CARYOPHYLLENE	Root Essent. Oil				--
7	LUTEOLIN-7-GLUCOSIDE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
10	AZULENE	Shoot				--
0	ALLO-AROMADENDRENE	Flower Essent. Oil				--
53	BETA-CAROTENE	Root				--
6	TARTARIC-ACID	Root				--
0	BETA-HUMULENE	Root Essent. Oil				--
11	NEROLIDOL	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PANAXOSIDE-C	Root				--
0	3-12-DIETHYL-TETRADECA-2-5-9-TRIENE	Shoot				--
77	ZINC	Stem				--
8	GINSENSIDE-RB-2	Embryo				--
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.
0	NEOCLOVENE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	BETA-GLUCOSE	Root				--
0	PANAX-POLYPEPTIDE	Root				--
0	PANAXATRIOL-GLYCOSIDE	Root				--
5	STARCH	Rhizome				--
12	COPPER	Leaf				--
0	PANAX-POLYSACCHARIDE-GL-4-II-B-1-II	Root				--
0	AMINO-ACIDS	Tissue Culture				--
0	SITOSTEROL-6'-LINOLYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	HEPTADEC-1-EN-4,6-DIYN-3,9,10-TRIOL	Root				--
0	BETA-NEOCLOVENE	Root Essent. Oil				--
11	ALPHA-PHELLANDRENE	Root Essent. Oil				--
0	2-METHYL-3-O-BETA-D-GLUCOSIDE-PYR-4-ONE	Plant				--
0	URACIL	Root				--
0	SAPONIN-IV	Tissue Culture				--
6	GINSENSIDE-RC	Root Bark				--
75	KAEMPFEROL	Shoot				--
0	PANAX-GINSENG-LIPOLYTIC-PEPTIDE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PANAXAN-I	Root				--
3	ESTRADIOL	Root				--
0	ALPHA-CUBEBENE	Flower Essent. Oil				--
0	CAPROIC-ACID-PROPYL-ESTER	Root				--
5	GINSENOSE-RE	Tissue Culture				--
0	KETOGLUTARIC-ACID	Root				--
14	MANGANESE	Fruit				--
0	PANAX-POLYSACCHARIDE-P-N	Leaf				--
0	POLYSACCHARIDE-SA	Root				--
18	TERPINEOL	Root Essent. Oil				--
0	GINSENOSE-M-4	Flower				--
0	PANAXYNE	Root				--
1	GINSENOSE-RB	Rhizome				--
0	GINSENOSE-RH-3	Shoot				--
7	HISTIDINE	Leaf				--
0	SAPONIN-II	Plant				--
4	LYSINE	Root				--
0	BETA-FARNESENE	Root				--
0	24-ETHYL-24(25)-DEHYDRO-CHOLESTEROL	Seed Oil				--
0	BISABOLENE	Flower Essent. Oil				--
0	CAMPESTEROL-6'-PALMITYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
28	ADENOSINE	Rhizome				--
0	FORMIC-ACID-METHYL-ESTER	Shoot				--
0	DIGLYCOSYL-DIGLYCERIDE	Root				--
0	GAMMA-CADINENE	Flower Essent. Oil				--
3	ASPARTIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALLO-AROMADENDRENE	Plant				--
2	ALPHA-HUMULENE	Root Essent. Oil				--
2	NEOXANTHIN	Leaf				--
0	PANAXOSIDE-A-PROGENIN-I	Root				--
0	2-ACETYL-PYRROLE	Shoot				--
77	ZINC	Petiole				--
0	GAMMA-PATCHOULENE	Root Essent. Oil				--
1	N-NONACOSANE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
3	GINSENOSE-RD	Seed				--
3	LIGUSTRIZINE	Root				--
0	PANAX-PECTIC-HETEROGLYCAN-GL-4-II-B-1-III	Leaf				--
0	SQUALENE-2-3-OXIDE	Seed Oil				--
1	CITROSTADIENOL	Seed Oil				--
0	PANAX-OLIGOSACCHARIDE	Tissue Culture				--
0	GINSENOSE-M-5	Flower				--
13	GINSENOSE-RG-1	Embryo				--
0	HEPTADECA-1-8-DIENE-4-6-DIYN-3-10-DIONE	Root				--
0	OXALIC-ACID-ETHYL-ESTER	Root				--
2	BETA-SANTALENE	Flower Essent. Oil				--
0	GINSENOYNES	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
1	D-GLUCOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	AMINO-ACIDS	Root				--
0	SITOSTEROL-6'-LINOLENYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	HENEICOSANOIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-NEOCLOVENE	Root Essent. Oil				--
11	ALPHA-PHELLANDRENE	Root				--
0	20-(S)-DIHYDRO-PROTOPANAXATRIONE	Root				--
8	TYROSINE	Leaf				--
14	GINSENOSEIDE-RB-1	Fruit				--
0	SAPONIN-III	Plant				--
3	ISOLEUCINE	Leaf				--
0	PANAX-GINSENG-GLYCOSIDE-P-1	Root				--
0	PANAXAN-H	Root				--
5	SAPONINS	Shoot				--
12	GLYCINE	Leaf				--
2	ERUCIC-ACID	Root				--
0	ADENYL-CYCLASE	Root				--
0	CAPROIC-ACID-BUTYL-ESTER	Root				--
5	PANAXIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	GOMSEMPSEIDE-RB-2	Root				--
0	PANAX-POLYSACCHARIDE-GL-NI-A	Leaf				--
47	BETA-SITOSTEROL	Rhizome				--
0	GINSENOSEIDE-FD-3	Flower				--
0	HEXAN-1-AL	Shoot				--
0	PANASENOSEIDE	Shoot				--
1	PANAXACOL	Root				--
0	SANTALENE	Shoot				--
0	POLYACETYLENES	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
6	IRON	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-FARNES-CIS-ENE	Shoot				--
0	24-ETHYL-22-TRANS-DEHYDRO-CHOLESTEROL	Seed Oil				--
0	BICYCLOGERMACRENE	Root				--
0	CAMPESTEROL-6'-OLEYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
11	ADENINE	Root				--
23	FOLIC-ACID	Root				--
0	DENSICHINE	Root				--
22	GAMMA-AMINOBUTYRIC-ACID	Root				--
75	KAEMPFEROL	Leaf				--
3	ASPARTIC-ACID	Root				--
0	GINSENOSE-M-7-CD	Flower				--
0	ALLO-AROMADENDRENE	Root Essent. Oil				--
0	STIGMASTEROL-6'-STEARYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	6-ALKYNE-HEXADEC-4-TRANS-ENE	Shoot				--
1	N-NONACOSANE	Root				--
0	PANAXOSIDE-A	Root				--
0	5-ETHYL-2-3-DIMETHYL-PYRAZINE	Root				--
77	ZINC	Fruit				--
0	GAMMA-PATCHOULENE	Plant				--
3	GINSENOSE-RD	Root Bark				--
0	ALPHA-GUAIENE	Root				--
1	LIGNOCERIC-ACID	Root				--
0	PANAX-HETEROGLYCAN-GL-P-IV	Leaf				--
0	PANAXAN-T	Root				--
21	CHLOROPHYLL	Leaf				--
0	PANAX-GLYCOPROTEIN	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GINSENSIDE-M-3	Flower				--
13	GINSENSIDE-RG-1	Tissue Culture				--
0	HEPTADEC-1-8-DIENE-4-6-DIYN-10-OL-3-ONE	Root				--
18	OLEIC-ACID	Root				--
3	ALPHA-SELINENE	Shoot				--
0	D-FRUCTOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ALPHA-AMYLASE	Root				--
4	SILICON	Root				--
7	HARMAN	Root				--
0	7-ALKYNE-2-HYDROXY-NONA-TRANS-3-TRANS-5-DIENE	Shoot				--
8	TYROSINE	Root				--
0	DECA-TRANS-2,TRANS-4-DIEN-1-AL	Shoot				--
0	SAPONIN-II	Root				--
0	GINSENSIDE-RB-GROUP	Tissue Culture				--
3	ISOLEUCINE	Root				--
0	PANAX-GINSENG-GLYCOPROTEIN	Root				--
0	PANAXAN-G	Root				--
12	GLYCINE	Root				--
8	GENTISIC-ACID	Root				--
0	EREMOPHILENE	Plant				--
5	24-METHYLENE-CYCLOARTANOL	Seed Oil				--
102	CAFFEIC-ACID	Root				--
0	GLYCOCHOLIC-ACID	Root				--
11	MALTOL	Root				--
0	PANAX-POLYSACCHARIDE-GL-B-III	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Fruit				--
0	PANAXOSIDE-E	Root				--
0	GINSENOSE-RA-O	Root				--
0	GINSENOSE-RH-2	Root				--
0	HEXADECANOIC-ACID	Shoot				--
0	PALMITOYL-BETA-D-GLUCOSIDE	Tissue Culture				--
0	PANAX-TRITERPENE-GF-VII	Fruit				--
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	INVERTASE	Root				--
8	FRUCTOSE	Tissue Culture				--
0	BETA-FARNES-(3-CIS-6-TRANS)-ENE	Shoot				--
0	22-TRANS-DEHYDRO-24-METHYL-CHOLESTEROL	Seed Oil				--
6	BETA-BISABOLENE	Root Essent. Oil				--
0	CAMPESTEROL-6'-LINOLYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ACIDIC-PEPTIDES	Flower				--
4	PANAXIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	CYSTINE	Leaf				--
0	DENDROLASIN	Shoot				--
9	DELTA-CADINENE	Root				--
6	IRON	Root				--
0	ASPARTASE	Root				--
0	4-METHYL-METHOXY-BENZENE	Shoot				--
0	STIGMASTEROL-6'-PALMITYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	20(R)-GINSENOSE-RH-2	Shoot				--
0	24-METHYLENE-24-DIHYDRO-LANOSTEROL	Seed Oil				--
1	N-NONACOSANE	Rhizome				--
0	3-SEC-BUTYL-2-METHOXY-5-METHYL-PYRAZINE	Root				--
77	ZINC	Leaf				--
0	ALPHA-SANTALENE	Shoot Essent. Oil				--
2	LEUCINE	Leaf				--
0	PANAX-HETEROGLYCAN-GL-P-II	Leaf				--
0	PANAXAN-S	Root				--
1	SPERMINE	Root				--
1	CATALASE	Root				--
0	D-SUCROSE	Root				--
13	GINSENOSE-RG-1	Root Bark				--
0	HEPTADEC-1-8-DIEN-4-6-DIYN-3-10-DIOL	Root				--
0	OBTUSIFOLIOL	Seed Oil				--
3	ALPHA-SELINENE	Flower Essent. Oil				--
53	CITRAL	Root				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
4	GINSENOSE-RF	Flower				--
61	FERULIC-ACID	Root				--
0	2-ISO-PROPYL-5-METHYL-ANISOLE	Root				--
0	4-OXY-OCT-6-ENOIC-ACID-METHYL-ESTER	Root				--
0	20(R)-PROTOPANAXATRIOL	Fruit				--
2	TRIFOLIN	Shoot				--
2	ARSENIC	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GINSENSIDE-RB-GROUP	Root				--
6	IRON	Stem				--
0	PANAX-GINSENG-GENIN-F-4	Root				--
0	PANAXAN-F	Root				--
0	SAPONIN-V	Tissue Culture				--
0	(-)-BETA-PANASINSENE	Root Essent. Oil				--
18	GINSENSIDES	Plant				--
0	GENSENSIDE-RD	Root				--
12	COPPER	Flower				--
4	CADINENE	Shoot				--
5	GINSENSIDE-RE	Seed				--
0	GLY-ARG-GAMMA-GLU-VAL-NH2	Root				--
0	LYSOPHOSPHATIDYL-INOSITOL	Root				--
0	PANAX-POLYSACCHARIDE-GL-AI-B	Leaf				--
41	TANNIC-ACID	Leaf				--
0	PANAXOSIDE-B	Root				--
0	HETEROGLYCAN-F	Fruit				--
2	PALMITOLEIC-ACID	Root				--
0	PANAX-TRITERPENE-GF-VI	Fruit				--
0	RHAMNOSE	Tissue Culture				--
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	HUMULENE	Stem Essent. Oil				--
13	BETA-EUDES MOL	Root Essent. Oil				--
0	CAMPESTEROL-6'-LINOLENYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ACETIC-ACID-ETHYL-ESTER	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PANASENOSIDE	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
13	CYSTEINE	Root				--
0	DECA-TRANS-2-CIS-4-DIEN-1-AL	Shoot				--
0	CIS-CARYOPHYLLENE	Plant				--
112	ASCORBIC-ACID	Leaf				--
9	BETA-AMYRIN	Seed Oil				--
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	STIGMASTEROL-6'-OLEYLGLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	20(R)-GINSENSIDE-RH-1	Fruit				--
0	2-METHYL-HEXANOIC-ACID-EHTYL-ESTER	Root				--
0	MORETENOL	Seed Oil				--
0	N-PENTADECANE	Plant				--
0	3-ISO-PROPYL-2-METHOXY-5-METHYL-PYRAZINE	Root				--
3	XYLOSE	Tissue Culture				--
8	GINSENSIDE-RB-2	Root Bark				--
2	VIOLAXANTHIN	Leaf				--
3	GINSENSIDE-RD	Embryo				--
0	ALPHA-GLUCOSE	Root				--
2	LEUCINE	Root				--
0	PANAX-HETEROGLYCAN-GL-P-I	Leaf				--
0	PANAXAN-R	Root				--
2	CAMPESTEROL	Root				--
6	MYRISTIC-ACID	Root				--
0	GINSENSIDE-K	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETA-MALTOSE	Root				--
3	ALPHA-SELINENE	Root Essent. Oil				--
0	BICYCLOGERMACRENE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	GINSENSIDE-RF	Tissue Culture				--
16	FALCARINOL	Rhizome				--
7	PHENYLALANINE	Leaf				--
1	GUANINE	Root				--
0	2-KETO-OCTA-TRANS-3-TRANS-5-DIENE	Shoot				--
0	TRICOSANOIC-ACID	Root				--
0	ALPHA-COPAENE	Shoot Essent. Oil				--
0	PROTOPANAXADIOL-GLYCOSIDES	Root				--
6	IRON	Pt				--
0	PANAX-GINSENG-GENIN-F-2	Root				--
1	PANAXAN-E	Root				--
0	SAPONIN-V	Plant				--
53	LINALOOL	Root Essent. Oil				--
18	GINSENSIDES	Shoot				--
0	GE	Root				--
0	EREMOPHILA-1-(10)-11-DIENE	Flower Essent. Oil				--
25	P-COUMARIC-ACID	Root				--
0	BUTYROSPERMOL	Seed Oil				--