

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Ginkgo biloba

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
176	QUERCETIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Tissue Culture				Jim Duke's personal files.
112	ASCORBIC-ACID	Seed	150.0	545.0	-0.011266545914812775	--
112	ASCORBIC-ACID	Leaf				--
112	ASCORBIC-ACID	Fruit		640.0	-0.24469573012689724	Jim Duke's personal files.
101	APIGENIN	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
101	APIGENIN	Pollen Or Spore		109.0		Jim Duke's personal files.
87	RUTIN	Leaf	6.0	30000.0	0.8579223754965293	Jim Duke's personal files.
87	RUTIN	Plant				Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
78	LUTEOLIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
77	ZINC	Leaf	0.6	2.3	-0.5126529515217503	--
77	ZINC	Seed	3.0	8.0	-1.054186300875964	USDA's Ag Handbook 8 and sequelae)
75	KAEMPFEROL	Leaf				--
71	THYMOL	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
65	MAGNESIUM	Leaf	240.0	1000.0	-1.2069561543337646	--
65	MAGNESIUM	Seed	270.0	605.0	-0.9249547994302867	USDA's Ag Handbook 8 and sequelae)
60	SELENIUM	Leaf	0.5	2.0	-0.22887772529853118	--
53	BETA-CAROTENE	Seed	1.0	4.0	-0.17927152633495164	--
53	BETA-CAROTENE	Tissue Culture				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	BETA-CAROTENE	Leaf	7.2	30.0	-1.007290752841	--
47	BETA-SITOSTEROL	Seed				Jim Duke's personal files.
47	BETA-SITOSTEROL	Pollen Or Spore				Jim Duke's personal files.
47	BETA-SITOSTEROL	Leaf				Jim Duke's personal files.
44	QUERCITRIN	Leaf		0.5	-0.6243960698019103	Jim Duke's personal files.
43	PROTOCATECHUIC-ACID	Plant				Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
43	PROTOCATECHUIC-ACID	Leaf				Jim Duke's personal files.
39	NIACIN	Seed	12.0	134.0	2.727415188315172	--
39	NIACIN	Leaf	84.0	350.0	3.071296935479944	--
38	(-)-EPICATECHIN	Leaf				Jim Duke's personal files.
35	TANNIN	Leaf				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
34	PROANTHOCYANIDINS	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
34	MYRICETIN	Leaf				--
31	THIAMIN	Seed	2.0	5.0	-0.37795068225120004	USDA's Ag Handbook 8 and sequelae)
30	(+)-CATECHIN	Tissue Culture				Jim Duke's personal files.
30	(+)-CATECHIN	Leaf				Jim Duke's personal files.
29	TRYPTOPHAN	Seed	710.0	1940.0	-0.4723632597485982	USDA's Ag Handbook 8 and sequelae)
28	CALCIUM	Seed	20.0	230.0	-0.7192814043300865	--
28	CALCIUM	Leaf	2640.0	11000.0	-0.5081650418038481	--
27	LINOLEIC-ACID	Leaf				Jim Duke's personal files.
27	LINOLEIC-ACID	Seed	5780.0	12889.0	-0.8073993840380734	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
25	OPCS	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
25	P-COUMARIC-ACID	Pollen Or Spore				Chemical Constituents of Oriental Herbs (3 diff. books)
24	VANILLIC-ACID	Plant				Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
24	CHROMIUM	Leaf	0.7	2.9	-0.39890184230621223	--
24	VANILLIC-ACID	Leaf				Jim Duke's personal files.
23	CITRIC-ACID	Seed				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
23	CITRIC-ACID	Pollen Or Spore				Jim Duke's personal files.
22	ISOQUERCITRIN	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
22	GAMMA-AMINOBUTYRIC-ACID	Seed				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
21	(-)-EPIGALLOCATECHIN	Leaf				Jim Duke's personal files.
20	BENZOIC-ACID	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
20	CHOLINE	Leaf				Jim Duke's personal files.
18	OLEIC-ACID	Leaf				Jim Duke's personal files.
18	OLEIC-ACID	Seed	5120.0	11418.0	-0.8852375473786731	USDA's Ag Handbook 8 and sequelae)
18	AMENTOFLAVONE	Leaf	3.8	5.0	-1.0	--
17	ANACARDIC-ACID	Seed				--
17	ANACARDIC-ACID	Plant				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
17	GINKGOLIDES	Leaf		1000.0		--
17	ANACARDIC-ACID	Leaf				--
17	ANACARDIC-ACID	Fruit				--
17	ANACARDIC-ACID	Fruit Epidermis				Jim Duke's personal files.
17	ANACARDIC-ACID	Testa				Jim Duke's personal files.
16	ACETIC-ACID	Pollen Or Spore				Jim Duke's personal files.
16	ACETIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
16	P-CYMENE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
16	ACACETIN	Leaf				--
16	P-CYMENE	Essential Oil				Jim Duke's personal files.
15	ALPHA-LINOLENIC-ACID	Seed	210.0	468.0	-0.32164924804323036	USDA's Ag Handbook 8 and sequelae)
15	ALPHA-LINOLENIC-ACID	Leaf				Jim Duke's personal files.
15	LUTEIN	Tissue Culture				Jim Duke's personal files.
15	LUTEIN	Leaf				Jim Duke's personal files.
15	METHIONINE	Seed	550.0	1520.0	-0.7216701395403058	USDA's Ag Handbook 8 and sequelae)
15	FIBER	Seed	5000.0	13000.0	-0.961586382822488	--
15	RIBOFLAVIN	Seed	1.0	3.0	-0.20090831129253928	--
15	RIBOFLAVIN	Leaf	0.3	1.2	-0.17223654048552425	--
15	MALIC-ACID	Pollen Or Spore				Jim Duke's personal files.
14	SHIKIMIC-ACID	Leaf				--
14	MANGANESE	Leaf	0.7	3.0	-0.4548985090553243	--
14	SUCROSE	Wood	10000.0	20000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	SUCROSE	Seed		3600.0	-0.6466733517479153	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
14	ARGININE	Seed	4200.0	11475.0	-0.5574710966820287	USDA's Ag Handbook 8 and sequelae)
14	GAMMA-TOCOPHEROL	Leaf		140.0		Jim Duke's personal files.
14	MANGANESE	Seed	1.0	3.0	-0.6293316926390775	USDA's Ag Handbook 8 and sequelae)
14	POTASSIUM	Seed	5100.0	11394.0	-0.10342639043560727	--
14	POTASSIUM	Leaf	2880.0	12000.0	-0.8100334258677413	--
13	BILOBALIDE	Root				Jim Duke's personal files.
13	PALMITIC-ACID	Leaf		251000.0	4.4947785234866116	Jim Duke's personal files.
13	BILOBALIDE	Shoot				Jim Duke's personal files.
13	CYSTEINE	Seed				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
13	BILOBALIDE	Plant				Jim Duke's personal files.
13	FORMIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	P-HYDROXY-BENZOIC-ACID	Leaf				Jim Duke's personal files.
13	PALMITIC-ACID	Seed	2880.0	6422.0	-0.5670943519713945	--
13	MUFA	Seed	6190.0	13815.0	-0.6916668126130565	USDA's Ag Handbook 8 and sequelae)
13	BILOBALIDE	Leaf	0.25	330.0		--
13	BETA-EUDES MOL	Heart Wood				Jim Duke's personal files.
13	BETA-IONONE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
13	BETA-IONONE	Essential Oil				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	P-HYDROXY-BENZOIC-ACID	Plant				Tyler, V.E.. 1982. The Honest Herbal. George F. Stickley Co., Philadelphia PA. 263 pp.
13	FORMIC-ACID	Pollen Or Spore				Jim Duke's personal files.
13	PALMITIC-ACID	Fruit				Jim Duke's personal files.
13	BETA-EUDES MOL	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
13	PALMITIC-ACID	Pollen Or Spore				Jim Duke's personal files.
12	GINKGOLIDE-B	Root				Jim Duke's personal files.
12	GINKGOLIDE-B	Shoot				Jim Duke's personal files.
12	GINKGOLIDE-B	Sprout Seedling				Jim Duke's personal files.
12	GINKGOLIDE-B	Root Bark				--
12	COPPER	Seed	3.0	6.0	-0.7995157719201157	USDA's Ag Handbook 8 and sequelae)
12	GINKGOLIDE-B	Plant				Jim Duke's personal files.
12	STIGMASTEROL	Leaf				Jim Duke's personal files.
12	GINKGOLIDE-B	Tissue Culture				Jim Duke's personal files.
12	GLYCINE	Seed	2320.0	6325.0	-0.6690108388262893	USDA's Ag Handbook 8 and sequelae)
12	GINKGOLIDE-B	Leaf	0.05	2500.0		Jim Duke's personal files.
12	STIGMASTEROL	Pollen Or Spore				--
11	PANTOTHENIC-ACID	Seed	1.0	4.0	-1.3347125379851006	USDA's Ag Handbook 8 and sequelae)
11	PROCYANIDIN	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
11	GINKGETIN	Leaf	12.0	4600.0		--
11	ISORHAMNETIN	Leaf				--
11	GINKGETIN	Fruit				--
10	GINKGOLIDE-A	Plant				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	GINKGOLIDE-A	Leaf	0.05	300.0		--
10	GINKGOLIDE-A	Root Bark		100.0		--
10	GINKGOLIDE-A	Root				Jim Duke's personal files.
10	GINKGOLIDE-A	Shoot				Jim Duke's personal files.
10	GINKGOLIDE-A	Sprout Seedling				Jim Duke's personal files.
10	GINKGOLIDE-A	Tissue Culture				Jim Duke's personal files.
8	FRUCTOSE	Seed				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
8	STEARIC-ACID	Pollen Or Spore				Jim Duke's personal files.
8	TYROSINE	Seed	610.0	1665.0	-1.407563246247056	USDA's Ag Handbook 8 and sequelae)
8	GLUTAMIC-ACID	Seed	8360.0	22840.0	-0.7962775692479128	USDA's Ag Handbook 8 and sequelae)
8	STEARIC-ACID	Seed	160.0	357.0	-0.5576443525355296	USDA's Ag Handbook 8 and sequelae)
8	LACTIC-ACID	Pollen Or Spore				Jim Duke's personal files.
7	GINKGOLIC-ACID	Leaf				Jim Duke's personal files.
7	SUCCINIC-ACID	Pollen Or Spore				Jim Duke's personal files.
7	HISTIDINE	Seed	1020.0	2785.0	-0.8876875742517191	USDA's Ag Handbook 8 and sequelae)
7	ASTRAGALIN	Leaf		18000.0	1.0	--
7	GINKGOIC-ACID	Fruit				--
7	(+)-GALLOLATECHIN	Leaf				Jim Duke's personal files.
7	SUCCINIC-ACID	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
7	GINKGOLIC-ACID	Fruit				--
7	LAURIC-ACID	Pollen Or Spore				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	GLUCOSE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
7	ALPHA-CAROTENE	Tissue Culture				Jim Duke's personal files.
7	PHENYLALANINE	Seed	1710.0	4660.0	-0.8216455270835238	USDA's Ag Handbook 8 and sequelae)
6	MYRISTIC-ACID	Seed	60.0	133.0	-0.29426213257444195	USDA's Ag Handbook 8 and sequelae)
6	IRON	Leaf	2.0	8.0	-0.9003002405301712	--
6	PROPIONIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	BUTYRIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	MYRISTIC-ACID	Pollen Or Spore				Jim Duke's personal files.
6	IRON	Seed	10.0	26.0	-0.5798269910065945	--
5	ERGOSTEROL	Seed				Jim Duke's personal files.
5	ALPHA-IONONE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
5	BILOBOL	Fruit				Jim Duke's personal files.
5	DAUCOSTEROL	Leaf				Jim Duke's personal files.
5	BILOBOL	Seed				--
5	ZEAXANTHIN	Tissue Culture				Jim Duke's personal files.
5	BILOBOL	Testa				Jim Duke's personal files.
5	STARCH	Seed	407400.0	680000.0	1.497636661907824	--
5	PINITOL	Leaf				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	CAPRYLIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	THREONINE	Seed	2680.0	7300.0	-0.18733331249617388	USDA's Ag Handbook 8 and sequelae)
4	D-CATECHIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	CALCIUM-OXALATE	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
4	GINKGOLIDE-C	Root Bark				--
4	KAEMPFEROL-3-RHAMNOGLUCOSIDE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	GINKGOLIDE-C	Root				Jim Duke's personal files.
4	SILICON	Leaf	0.5	2.0	-0.40724322979061855	--
4	GINKGOLIDE-C	Shoot				Jim Duke's personal files.
4	GINKGOLIDE-C	Sprout Seedling				Jim Duke's personal files.
4	(+)-CATECHOL	Leaf				Jim Duke's personal files.
4	CARDOL	Fruit				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
4	GINKGOLIDE-C	Plant				Jim Duke's personal files.
4	GINKGOLIDE-C	Leaf	0.05	120.0		Jim Duke's personal files.
4	QUERCETIN-3-RHAMNOGLUCOSIDE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	LYSINE	Seed	2060.0	5640.0	-0.8748533155304336	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHOSPHORUS	Leaf	1440.0	6000.0	0.1892389688834186	--
4	PHOSPHORUS	Seed	1240.0	3268.0	-0.5510734530365442	--
4	BIFLAVONES	Leaf				--
4	PUFA	Seed	6180.0	13795.0	-0.7009231111054428	USDA's Ag Handbook 8 and sequelae)
3	GINNOL	Fruit				--
3	XYLOSE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
3	ASPARTIC-ACID	Seed	5430.0	14815.0	-0.6901386529117167	USDA's Ag Handbook 8 and sequelae)
3	VALINE	Seed	2830.0	7730.0	-0.5273131819394478	USDA's Ag Handbook 8 and sequelae)
3	SCIADOPITYSIN	Leaf				--
3	ALANINE	Seed	2400.0	6745.0	-0.7251578440244862	USDA's Ag Handbook 8 and sequelae)
3	MANNOSE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
3	BILOBETIN	Leaf	8.0	19000.0		--
3	3,4-DIHYDROXYBENZOIC-ACID	Leaf				--
3	CARDANOL	Testa				Jim Duke's personal files.
3	CARDANOL	Seed				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
3	CARDANOL	Fruit				--
3	GINNOL	Pollen Or Spore		463.0		Jim Duke's personal files.
3	ISOLEUCINE	Seed	2090.0	5700.0	-0.6114097088220455	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	GLUCOMANNAN	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
3	GINNOL	Leaf		1260.0		Jim Duke's personal files.
2	NONACOSANE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	6-HEPTADECENYLSALICYLIC-ACID	Fruit				Jim Duke's personal files.
2	LEUCINE	Seed	3160.0	8620.0	-0.8099200212559403	USDA's Ag Handbook 8 and sequelae)
2	6-HEPTADECENYLSALICYLIC-ACID	Leaf				Jim Duke's personal files.
2	CYSTINE	Seed	230.0	630.0	-1.7530921610405406	USDA's Ag Handbook 8 and sequelae)
2	ASPARAGINE	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
2	6-PENTADECENYLSALICYLIC-ACID	Leaf				Jim Duke's personal files.
2	PALMITOLEIC-ACID	Seed	790.0	1761.0	-0.256195566417164	USDA's Ag Handbook 8 and sequelae)
2	ELEMOL	Heart Wood				Jim Duke's personal files.
2	NEOXANTHIN	Leaf				Jim Duke's personal files.
2	COBALT	Leaf				--
2	CAMPESTEROL	Seed				Jim Duke's personal files.
2	VIOLAXANTHIN	Leaf				Jim Duke's personal files.
2	GAMMA-CAROTENE	Tissue Culture				Jim Duke's personal files.
2	ELEMOL	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	GALACTOSE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
1	GINKGOLIDE-J	Root				Jim Duke's personal files.
1	SERINE	Seed	2900.0	7935.0	-0.5058246480060101	USDA's Ag Handbook 8 and sequelae)
1	GINKGOLIDE-J	Shoot				Jim Duke's personal files.
1	BEHENIC-ACID	Pollen Or Spore				Jim Duke's personal files.
1	GINKGOLIDE-J	Leaf				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	HOMOSERINE	Seed				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
1	SODIUM	Leaf	72.0	300.0	-0.5940028377357823	--
1	VALERIANIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	PRODELPHINIDIN	Leaf				--
1	AFZELIN	Pollen Or Spore		141.0		--
1	PYRUVIC-ACID	Pollen Or Spore				Jim Duke's personal files.
1	RAFFINOSE	Wood	10000.0	20000.0		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
1	RAFFINOSE	Flower		40000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	6-(PENTADECYL)-SALICYLIC-ACID	Leaf				Jim Duke's personal files.
1	QUINIC-ACID	Leaf				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SODIUM	Seed	70.0	160.0	-0.4617295086785716	--
1	CAPROIC-ACID	Fruit				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	(Z)-ATLANTONE	Heart Wood				Jim Duke's personal files.
0	10,11-(Z)-DIHYDROATLANTONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	GINKGO-POLYSACCHARIDE-GF-2-B	Leaf				Jim Duke's personal files.
0	LUTEIN-ESTER	Leaf				Jim Duke's personal files.
0	KYURENIC-ACID	Leaf				--
0	TRANS-NEOXANTHIN	Tissue Culture				Jim Duke's personal files.
0	HEXEN-1-AL	Leaf				Jim Duke's personal files.
0	GINKGO-POLYPRENOL-17	Leaf				Jim Duke's personal files.
0	KAEMPFEROL-3-O-RUTINOSIDE	Leaf	40.0	130.0		Jim Duke's personal files.
0	SITOSTEROL	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3-O-[2''-O-[6''-O-(P-HYDROXY-TRANS-CINNAMOYL)-BETA-D-GLUCOSYL]-ALPHA-L-RHAMNOSYL]-KAEMPFEROL	Leaf				--
0	FLAVONIDS	Leaf				Jim Duke's personal files.
0	KAEMPFEROL-3-O-ALPHA-(6'''-P-COUMAROYL-GLUCOSYL-BETA-1-2-RHAMNOSIDE)	Leaf				Jim Duke's personal files.
0	QUERCETIN-3-O-COUMAROYL-GLUCORHAMNOSIDE	Leaf				Jim Duke's personal files.
0	8-HYDROXY-3-TRIDECYL-3-4'-DIHYDRO-ISO-COUMARIN	Fruit				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETIN-3-O-(6"-P-COUMAROYL-GLUCOSYL(1-2)RHAMNOSIDE)	Leaf				Jim Duke's personal files.
0	PENTOSANS	Seed		16000.0	-1.3063116491987934	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	4-HYDROXYGINKGOLIC-ACID	Fruit				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	IPURANOL	Leaf				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	GADOLEIC-ACID	Seed	100.0	223.0	-0.6995055326721517	USDA's Ag Handbook 8 and sequelae)
0	(E)-ATLANTONE	Heart Wood				Jim Duke's personal files.
0	10,11-(E)-DIHYDROATLANTONE	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	GINKGO-POLYSACCHARIDE-GF-2-A	Leaf				Jim Duke's personal files.
0	GINKGOLIDE-M	Root Bark				Chemical Constituents of Oriental Herbs (3 diff. books)
0	KILOCALORIES	Seed	1820.0	3975.0	-0.6916855702845792	USDA's Ag Handbook 8 and sequelae)
0	TRANS-LINALOOL-OXIDE	Essential Oil				Jim Duke's personal files.
0	WATER	Leaf		760000.0	-0.2376635252867174	--
0	HEXACOSAN-1-OL	Leaf				Jim Duke's personal files.
0	L-EPIGALLOCATECHIN	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	QUERCETIN-3-O-(6"-O-P-COUMAROYL-BETA-D-GLUCOPYRANOSYL(1-2)ALPHA-L-RHAMNOPYRANOSIDE)	Leaf				Jim Duke's personal files.
0	GINKGO-POLYPRENOL-16	Leaf				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	KAEMPFEROL-3-O-RHAMNOSYL(1-2)RHAMNOSYL(1-6)GLUCOSIDE	Leaf				Jim Duke's personal files.
0	2-HEXENAL	Plant				--
0	N-HEPTACOSANE	Leaf		381000.0		Jim Duke's personal files.
0	QUERCETIN-3-O-ALPHA-L-RHAMNO-GLUCOSIDE	Leaf				Jim Duke's personal files.
0	PROTEIN	Seed	43200.0	131000.0	-0.9144242564530036	--
0	8-HYDROXY-3-HEPTADECYL-3-4-DIHYDRO-ISO-COUMARIN	Fruit				Jim Duke's personal files.
0	QUERCETIN-3-O-(6"-P-COUMAROYL-GLUCOPYRANOSYL-BETA-1-4-RHAMNOPYRANOSIDE)	Leaf				Jim Duke's personal files.
0	(-)-EPICATECHOL	Leaf				Jim Duke's personal files.
0	PENTOSANS	Leaf		55000.0	-1.0	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	4-HYDROXYANACARDIC-ACID	Fruit				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	HYDROGINKGOLIC-ACID	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
0	P-TOLYL-PROPYLENE	Essential Oil				Jim Duke's personal files.
0	WAX	Leaf	7000.0	10000.0	0.5100293229805821	--
0	ALPHA-HYDROXY-PALMITIC-ACID	Seed				--
0	APIGENIN-3-O-GLUCOSIDE	Leaf				--
0	SEQUOYITOL	Leaf				--
0	10,11-(E)-6-OXO-DIHYDROATLANTONE	Plant				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	GINKGO-POLYSACCHARIDE-GF-1	Leaf				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	KAEMPFEROL-7-O-GLUCOSIDE	Leaf				--
0	6-(HEPTADECADIENYL)-SALICYLIC-ACID	Leaf				Jim Duke's personal files.
0	SYRINGETIN-3-O-RUTINOSIDE	Leaf		1.4		--
0	THIAMINE	Leaf	0.5	2.0	-0.7799775759670321	--
0	L-EPICATECHIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	QUERCETIN-3-O-(2'-O-BETA-D-GLUCOPYRANOSYL)-ALPHA-L-RHAMNOPYRANOSIDE	Leaf		2.8		Jim Duke's personal files.
0	GINKGO-POLYPRENOL-15	Leaf				Jim Duke's personal files.
0	KAEMPFEROL-3-O-[6'''-O-P-COUMAROYL-BETA-D-GLUCOSYL-(1-2)-ALPHA-L-RHAMNOSIDE]	Leaf				Jim Duke's personal files.
0	DOLICHOL	Leaf				Jim Duke's personal files.
0	KAEMPFEROL-3-O-2'-6'-DI-O-RHAMNOPYRANOSYL-GLUCOPYRANOSIDE	Leaf				Jim Duke's personal files.
0	QUERCETIN-3-O-ALPHA(6'''-P-COUMAROYL-GLUCOSYL-BETA-1,4-RHAMNOSIDE)	Leaf		20.0		Jim Duke's personal files.
0	8-HYDROXY-3-(6'-PENTADECENYL)-3-4-DIHYDRO-ISO-COUMARIN	Fruit				Jim Duke's personal files.
0	ALPHA-HEXENAL	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEX-TRANS-4-EN-1-OL	Essential Oil				Jim Duke's personal files.
0	4'-METHOXYPYRIDOXINE	Seed				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	ASH	Seed	14000.0	38000.0	-0.29717040195945654	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	AUROXANTHIN	Tissue Culture				Jim Duke's personal files.
0	1,4-DIMETHYL-2,5-DIISOPROPYLBENZENE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	GINKGO-POLYPRENOL-95	Leaf				Jim Duke's personal files.
0	LINOLENIC-ACID	Fruit				Jim Duke's personal files.
0	KAEMPFEROL-3-O-RHAMNOSIDE	Leaf				--
0	GINKGOL	Leaf				Jim Duke's personal files.
0	5-6-EPOXYLUTEIN	Tissue Culture				Jim Duke's personal files.
0	ACENAPHTHENE	Essential Oil				Jim Duke's personal files.
0	GINKGO-POLYPRENOL-120	Leaf				Jim Duke's personal files.
0	KAEMPFEROL-3-O-[2'-O-6'''-O(P-(7''''-O-BETA-D-GLUCOPYRANOSYL)-COUMAROYL)-BETA-D-GLUCOPYRANOSYL]-ALPHA-L-RHAMNOPYRANOSIDE	Leaf		3.1		Jim Duke's personal files.
0	DI-TRANS-POLY-CIS-OCTADECAPRENOL	Leaf		2660.0		--
0	DOCOSAN-1-OL	Pollen Or Spore		445.0		Jim Duke's personal files.
0	KAEMPFEROL-3-O-(ALPHA-RHAMNOSYL(1-2)ALPHA-RHAMNOSYL(1-6))BETA-D-GLUCOSIDE	Leaf		700.0		Jim Duke's personal files.
0	QUERCETIN-3-O-ALPHA-(6'''-P-COUMAROYL-GLUCOSYL-BETA-1-2-RHAMNOSIDE)	Leaf				Jim Duke's personal files.
0	FAT	Leaf	5520.0	23000.0	-0.666792373215361	--
0	PROLINE	Seed	3470.0	9475.0	-0.3655832299835854	USDA's Ag Handbook 8 and sequelae)
0	4-4'-(PENTA-CIS-1-CIS-5-DIENE-1-5-DIYNYL)-DIPHENOL	Leaf		22.7		Jim Duke's personal files.
0	HEX-TRANS-2-EN-1-AL	Leaf				Jim Duke's personal files.
0	EPIGALLOCATECHOL	Leaf				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	21-BETULAPRENOL	Leaf				Jim Duke's personal files.
0	3'-O-METHYLMYRICETIN-3-RUTINOSIDE	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	OCTACOSAN-1-OL	Leaf				Jim Duke's personal files.
0	MYRICETIN-3-O-RUTINOSIDE	Leaf				--
0	6-(TRIDECYL)-SALICYLIC-ACID	Leaf				Jim Duke's personal files.
0	(+)-SESAMIN	Wood				Jim Duke's personal files.
0	GINKGO-POLYPRENOL-90	Leaf				Jim Duke's personal files.
0	GINKGOLIDE-ACID	Fruit				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	LINOLENIC-ACID	Seed				Jim Duke's personal files.
0	ISORHAMNETIN-3-O-RUTINOSIDE	Leaf				--
0	4-O-METHYL-PYRIDOXINE	Seed				--
0	2-CARBOXYARABINITOL	Leaf				Jim Duke's personal files.
0	CARDANOLS	Leaf				--
0	DIHYDRO-GINKGOLIC-ACID	Fruit				Jim Duke's personal files.
0	KAEMPFEROL-3-O-(6'''-P-COUMAROYL-GLUCOSYL(1-2)RHAMNOSIDE	Leaf				Jim Duke's personal files.
0	QUERCETIN-3-O-2'-6'-DI-O-RHAMNOPYRANOSYL-GLUCOPYRANOSIDE	Leaf				Jim Duke's personal files.
0	FIBER(DIETARY)	Leaf		350000.0	-0.29464124786862994	--
0	HEX-CIS-4-EN-1-OL	Essential Oil				Jim Duke's personal files.
0	KAEMPFEROL-3-O-ALPHA(6'''-P-COUMAROYL-GLUCOSYL-BETA-1,4-RHAMNOSIDE)	Plant				--
0	20-BETULAPRENOL	Leaf				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	24ALPHA-ETHYLLATHOSTEROL	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	HEXACOSANOL-1	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	UROSHIOLS	Leaf				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	6-(TRIDECYL)-SALICYLIC-ACID	Fruit				Jim Duke's personal files.
0	(+)-SESAMIN	Heart Wood				Jim Duke's personal files.
0	FAT	Seed	16000.0	38020.0	-1.1976264322692631	--
0	MANNAN	Leaf		34000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GINKGO-POLYPRENOL-85	Leaf				Jim Duke's personal files.
0	LINOLENIC-ACID	Leaf		452000.0	2.995693474983614	Jim Duke's personal files.
0	ISORHAMNETIN-3-O-GLUCOSIDE	Leaf				--
0	GINKGO-FLAVONE-GYLCOSIDES	Leaf				Jim Duke's personal files.
0	2-ISOPROPYLPHENOL	Essential Oil				Jim Duke's personal files.
0	(+)-GALLOCATECHOL	Leaf				Jim Duke's personal files.
0	KAEMPFEROL-3-O-(6'''-P-COUMAROYL-GLUCOPYRANOSYL)-BETA-1-4-RHAMNOPYRANOSIDE	Leaf				Jim Duke's personal files.
0	QUERCETIN-3-O-[2'-O-6'''-O-(P-(7'PYRANOSIDE'-O-BETA-D-GLUCOPYRANOSYL)-COUMAROYL)-BETA-D-GLUCOPYRANOSYL]-ALPHA-L-RHAMNOPY	Leaf		4.4		Jim Duke's personal files.
0	FIBER(CRUDE)	Leaf		100000.0	-0.7146241028272484	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CERYL-ALCOHOL	Twig				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEX-CIS-3-EN-1-OL	Essential Oil				Jim Duke's personal files.
0	KAEMPFEROL-3-O-RUTINOSIDE	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	1,4-DIMETHYL-2,5-DIISOPROPYLBENZENE	Essential Oil				Jim Duke's personal files.
0	WATER	Seed	124000.0	552000.0	1.2448308751035961	USDA's Ag Handbook 8 and sequelae)
0	BILOBANONE	Wood		20000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	P-TOLYL-PROPYLENE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	19-BETULAPRENOL	Leaf				Jim Duke's personal files.
0	2-ISOPROPYLPHENOL	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	N-TRICOSANE	Leaf		125000.0		Jim Duke's personal files.
0	6-(TRIDEC-8-ENYL)-RESORCYCLIC-ACID	Seed				Jim Duke's personal files.
0	(+)-PINITOL	Pollen Or Spore		76.0		Jim Duke's personal files.
0	EO	Wood		50000.0	0.1710888075673346	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ARABINOSE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GINKGO-POLYPRENOL-22	Leaf				Jim Duke's personal files.
0	4-HYDROXY-BENZOIC-ACID	Leaf				--
0	GINGOLIDE-C	Leaf				Jim Duke's personal files.
0	KAEMPFEROL-3-O-P-COUMAROYL-GLUCORHAMNOSIDE	Leaf				Jim Duke's personal files.
0	SEQUOYITOL	Pollen Or Spore		31.0		Jim Duke's personal files.
0	CIS-VIOLAXANTHIN	Tissue Culture				Jim Duke's personal files.
0	KAEMPFEROL-3-O-(6'-O-P-COUMAROYL-BETA-D-GLUCOPYRANOSYL(1-2)ALPHA-L-RHAMNOPYRANOSIDE	Leaf		200.0		Jim Duke's personal files.
0	QUERCETIN-3-O-[2'-O-6'''-O-P-COUMAROYL)-BETA-D-GLUCOPYRANOSYL]-ALPHA-L-RHAMNOPYRANOSYL-7-O-BETA-D-GLUCOSIDE	Leaf		40.0		Jim Duke's personal files.
0	ACENAPTHENE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	HEPTADECA-3-6-9-TRIEN-1-OL	Essential Oil				Jim Duke's personal files.
0	PROTEIN-H	Seed				Jim Duke's personal files.
0	TERPENE-TRILACTONES	Leaf		2660.0		--
0	18-BETULAPRENOL	Leaf				Jim Duke's personal files.
0	2,5,8-TRIMETHYLDIHYDRONAPHTHALENE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	N-PENTACOSANE	Leaf		174000.0		Jim Duke's personal files.
0	4-O-METHYL-PYRIDOXINE	Leaf				--
0	ARACHIDIC-ACID	Pollen Or Spore				Jim Duke's personal files.
0	GINKGO-POLYPRENOL-21	Leaf				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GINKGOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	3-O-[2''-O-[6''-O-(P-(BETA-D-GLUCOSYLOXY)-TRANS-CINNAMOYL)-BETA-D-GLUCOSYL]-ALPHA-L-RHAMNOSYL]-QUERCETIN	Leaf				--
0	GAMMA-EUDESOL	Heart Wood				Jim Duke's personal files.
0	KAEMPFEROL-3-O-COUMAROYL-GLUCORHAMNOSIDE	Leaf				Jim Duke's personal files.
0	PROTEIN	Leaf	21600.0	90000.0	-1.2155220974066152	--
0	DOCOSANOL	Pollen Or Spore				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CIS-NEOXANTHIN	Tissue Culture				Jim Duke's personal files.
0	3-O-[2''-O-6''-O-BIS-(ALPHA-L-RHAMNOSYL)-BETA-D-GLUCOSYL]-QUERCETIN	Leaf				--
0	KAEMPFEROL-3-O-(3'-P-COUMAROYL-GLUCOSYL-BETA(1-4)-RHAMNOSIDE)	Leaf		25000.0		Jim Duke's personal files.
0	QUERCETIN-3-O-(ALPHA-RHAMNOSYL-(1-2)-ALPHA-RHAMNOSYL-(1-6))-BETA-GLUCOSIDE	Leaf		8000.0		Jim Duke's personal files.
0	POPULNIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GINNONE	Leaf				Jim Duke's personal files.
0	POPULNIN	Pollen Or Spore		119.0		Jim Duke's personal files.
0	TRANS-LINALOOL-OXIDE	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	SFA	Seed	3190.0	7120.0	-0.5084786953438746	USDA's Ag Handbook 8 and sequelae)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BETULAPRENOLS	Plant				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	17-BETULAPRENOL	Leaf				Jim Duke's personal files.
0	13-NONACOSANOL	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)
0	N-ALPHA-HYDROXY-PALMITOYL-GLUCOSYL-OCTADECASPHINGADIENE	Seed				Jim Duke's personal files.
0	TRICETIN	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
0	3'-O-METHYLMYRICETRIN-3-O-GLUCOSIDE	Leaf				--
0	6-(PENTACEC-CIS-ENYL)-SALICYLIC-ACID	Fruit				Jim Duke's personal files.
0	KAEMPFEROL-3-O-(2'-O-BETA-D-GLUCOPYRANOSYL)-ALPHA-L-RHAMNOPYRANOSIDE	Leaf		5.3		Jim Duke's personal files.
0	GINKGO-POLYPRENOL-20	Leaf				Jim Duke's personal files.
0	LARICITRIN-3-O-RUTINOSIDE	Leaf				Jim Duke's personal files.
0	3-O-[2''-O-[6''-O-(P-HYDROXY-TRANS-CINNAMOYL)-BETA-D-GLUCOSYL]-ALPHA-L-RHAMNOSYL]-QUERCETIN	Leaf				--
0	KAEMPFEROL-3-O-BETA-D-RUTINOSIDE	Leaf		1000.0		Jim Duke's personal files.
0	DNA	Flower	32700.0	35700.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	3-O-[2''-O-6''-O-BIS-(ALPHA-L-RHAMNOSYL)-BETA-D-GLUCOSYL]-KAEMPFEROL	Leaf				--
0	KAEMPFEROL-3-O-(2'-6-DIRHAMNOPYRANOSYL)-BETA-D-GLUCOPYRANOSIDE	Leaf		22.0		Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETIN-3-O-(ALPHA-RHAMNOSYL-(1-2)-ALPHA-RHAMNOSYL-(1-6)-BETA-D-GLUCOSIDE)	Leaf		700.0		Jim Duke's personal files.
0	CARBOHYDRATES	Seed	381000.0	838400.0	1.2518645496771927	--
0	BILOBANONE	Leaf				Jim Duke's personal files.
0	6-HYDROXYKYNURENIC-ACID	Leaf				--
0	POPULNIN	Leaf		1.5		Jim Duke's personal files.
0	SEQUOJAFLAVONE	Leaf				--
0	GAMMA-EUDESOL	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	16-BETULAPRENOL	Leaf				Jim Duke's personal files.
0	10-NONACOSANOL	Leaf				--
0	TRANS-LINALOL-OXIDE	Wood				--
0	6-(PENTACEC-CIS-ENYL)-SALICYLIC-ACID	Leaf				Jim Duke's personal files.
0	KAEMPFEROL-2-6-DIRHAMNOSYL-GLUCOSIDE	Leaf				Jim Duke's personal files.
0	GINKGO-POLYPRENOL-19	Leaf				Jim Duke's personal files.
0	SPINASTEROL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	3-O-[2"-O-[6"-O-(P-(BETA-D-GLUCOSYLOXY)-TRANS-CINNAMOYL)-BETA-D-GLUCOSYL]-ALPHA-L-RHAMNOSYL]-KAEMPFEROL	Leaf				--
0	KAEMPFEROL-3-O-ALPHA-L-[BETA-D-GLUCOPYRANOSYL(1-2)RHAMNOPYRANOSIDE]	Leaf				Jim Duke's personal files.
0	QUERCETIN-3-O-RHAMNOSYL(1-2)RHAMNOSYL(1-6)GLUCOSIDE	Leaf				Jim Duke's personal files.



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	D-GLUCARIC-ACID	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	QUERCETIN-3-O-ALPHA(6"-P-COUMAROYL-GLUCOSYL-BETA-1,4-RHAMNOSIDE)	Plant				--
0	3-O-[2"-O-6"-O-BIS-(ALPHA-L-RHAMNOSYL)-BETA-D-GLUCOSYL-ISORHAMNETIN	Leaf				--
0	QUERCETIN-3-O-[6"-O-P-COUMAROYL-BETA-D-GLUCOSYL-(1-2)-ALPHA-L-RHAMNOSIDE]	Leaf				Jim Duke's personal files.
0	ASH	Leaf	11520.0	48000.0	-1.248319836630157	--
0	BILOBANONE	Heart Wood				Jim Duke's personal files.
0	6-(PENTADEC-8-ENYL)-2,4-DIHYDROXYBENZOIC-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	ISOGINKGETIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OCTACOSANOL-1	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	15-BETULAPRENOL	Leaf				Jim Duke's personal files.
0	10-HEPTACOSANOL	Leaf Wax				Chemical Constituents of Oriental Herbs (3 diff. books)
0	GINKGO-POLYSACCHARIDE-GF-3	Leaf				Jim Duke's personal files.
0	GINNON	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	LUTEOLIN-3-O-GLUCOSIDE	Leaf				--
0	6-(PENTADEC-8-ENYL)-RESORCYCLIC-ACID	Seed				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TRANS-VIOLAXANTHIN	Tissue Culture				Jim Duke's personal files.
0	ALPHA-SESAMIN	Wood		5000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	INGNOCERIC-ACID	Pollen Or Spore				Jim Duke's personal files.
0	GINKGO-POLYPRENOL-18	Leaf				Jim Duke's personal files.
0	KAEMPFEROL-COUMAROYL-GLUCORHAMNOSIDE	Leaf				Jim Duke's personal files.
0	3-O-[2"-O-[6"-O-(P-HYDROXY-TRANS-CINNAMOYL)-BETA-D-GLUCOSYL]-ALPHA-L-RHAMNOSYL-7-O-(BETA-D-GLUCOSYL)-QUERCETIN	Leaf				--
0	FLAVOXANTHIN	Tissue Culture				Jim Duke's personal files.
0	KAEMPFEROL-3-O-ALPHA-L-RHAMNO-GLUCOAROYL-GLUCOSYL-BETA-1-4-RHAMNOSIDE)	Leaf		580.0		Jim Duke's personal files.
0	QUERCETIN-3-O-P-COUMAROYL-GLUCO-RHAMNOSIDE	Leaf				Jim Duke's personal files.
0	D-GALLOCATECHIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	QUERCETIN-3-O-RUTINOSIDE	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	QUERCETIN-3-O-(6"-P-COUMAROYL-GLUCOSYL-BETA(1-4)RHAMNOSIDE)	Leaf		21000.0		Jim Duke's personal files.
0	(-)-EPI-GALLO-CATECHOL	Leaf				Jim Duke's personal files.
0	BILOBALIDE-A	Leaf				Jim Duke's personal files.
0	5'-METHOXYBILOBETIN	Leaf				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GINKGOTOXIN	Seed				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	Z,Z,4,4'-(1,4-PENTADIEN-1,5-DIYL)DIPHENOL	Leaf				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gokeikagaku Kaishi 61(9): 1119-1122.
0	HYDROGINKGOLIC-ACID	Leaf				Jim Duke's personal files.