

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Gentiana lutea*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Essential Oil				Abstract (See species file)
5	ALUMINUM	Root	64.0	291.0	-0.15634216717940302	--
6	AMAROGENTIN	Root	100.0	3300.0		--
112	ASCORBIC-ACID	Root	40.0	183.0	-0.5413626409176785	--
9	BETA-AMYRIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
53	BETA-CAROTENE	Root	9.0	39.0	-0.18704689349928313	--
102	CAFFEIC-ACID	Root				--
28	CALCIUM	Root	1791.0	8140.0	0.0807362259091836	--
37	CARVACROL	Essential Oil				Abstract (See species file)
24	CHROMIUM	Root	0.3	1.3	-0.30083292134545053	--
2	COBALT	Root	0.3	1.4	-0.5148215616573423	--
24	GENTIANINE	Root	6000.0	8000.0	1.0	--
4	GENTIOPICRIN	Root	11400.0	35000.0		--
4	GENTIOPICROSIDE	Root	11400.0	35000.0		--
3	GENTISEIN	Root				--
8	GENTISIC-ACID	Root				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.
2	GENTISIN	Root		380.0		--
19	INULIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Root	8.0	37.0	-0.38789995702739277	--
2	ISOGENTISIN	Root		380.0		--
60	LIMONENE	Essential Oil		346800.0	1.2590716018100643	Abstract (See species file)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
53	LINALOOL	Essential Oil				Abstract (See species file)
21	LUPEOL	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
65	MAGNESIUM	Root	603.0	2740.0	0.09495627526651279	--
14	MANGANESE	Root	0.5	2.3	-0.5184092277453715	--
18	MANGIFERIN	Plant				Abstract (See species file)
39	NIACIN	Root	13.0	61.0	0.31188169659251	--
11	NICOTINIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	PECTIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PHOSPHORUS	Root	594.0	2700.0	-0.14368503617776215	--
2	PHYTOSTEROLS	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
14	POTASSIUM	Root	1929.0	8770.0	-0.5132071461769279	--
43	PROTocatechuic-acid	Root				--
15	RIBOFLAVIN	Root	0.5	2.1	-0.4321138905848174	--
60	SELENIUM	Root	0.4	1.8	-0.2344070430977907	--
4	SILICON	Root				--
9	SINAPIC-ACID	Root				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.
1	SODIUM	Root	9.0	41.0	-0.49368227192150566	--
5	STARCH	Root	35200.0	160000.0	-0.6514767798388345	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	SUCROSE	Root				--
9	SWEROSIDE	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
4	SWERTIAMARIN	Root				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
6	SYRINGIC-ACID	Root				--
35	TANNIN	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.
31	THIAMIN	Root		4.8	-0.1667482173069163	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	TIN	Root	9.0	40.0	2.3901698461602563	--
77	ZINC	Root	0.6	2.9	-0.9319328403212439	--