

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Gentiana lutea*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Essential Oil		346800.0	1.2590716018100643	Abstract (See species file)
5	STARCH	Root	35200.0	160000.0	-0.6514767798388345	--
4	GENTIOPIICOSIDE	Root	11400.0	35000.0		--
4	GENTIOPICRIN	Root	11400.0	35000.0		--
14	POTASSIUM	Root	1929.0	8770.0	-0.5132071461769279	--
28	CALCIUM	Root	1791.0	8140.0	0.0807362259091836	--
24	GENTIANINE	Root	6000.0	8000.0	1.0	--
6	AMAROGENTIN	Root	100.0	3300.0		--
65	MAGNESIUM	Root	603.0	2740.0	0.09495627526651279	--
4	PHOSPHORUS	Root	594.0	2700.0	-0.14368503617776215	--
2	ISOAGENTISIN	Root		380.0		--
2	GENTISIN	Root		380.0		--
5	ALUMINUM	Root	64.0	291.0	-0.15634216717940302	--
112	ASCORBIC-ACID	Root	40.0	183.0	-0.5413626409176785	--
39	NIACIN	Root	13.0	61.0	0.31188169659251	--
1	SODIUM	Root	9.0	41.0	-0.49368227192150566	--
4	TIN	Root	9.0	40.0	2.3901698461602563	--
53	BETA-CAROTENE	Root	9.0	39.0	-0.18704689349928313	--
6	IRON	Root	8.0	37.0	-0.38789995702739277	--
31	THIAMIN	Root		4.8	-0.1667482173069163	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
77	ZINC	Root	0.6	2.9	-0.9319328403212439	--
14	MANGANESE	Root	0.5	2.3	-0.5184092277453715	--
15	RIBOFLAVIN	Root	0.5	2.1	-0.4321138905848174	--
60	SELENIUM	Root	0.4	1.8	-0.2344070430977907	--
2	COBALT	Root	0.3	1.4	-0.5148215616573423	--
24	CHROMIUM	Root	0.3	1.3	-0.30083292134545053	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
21	LUPEOL	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
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.
37	CARVACROL	Essential Oil				Abstract (See species file)
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.
102	CAFFEIC-ACID	Root				--
43	PROTocatechuic-ACID	Root				--
19	INULIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	SILICON	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.
24	PECTIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
53	LINALOOL	Essential Oil				Abstract (See species file)
3	GENTISEIN	Root				--
6	SYRINGIC-ACID	Root				--
23	ALPHA-TERPINEOL	Essential Oil				Abstract (See species file)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	NICOTINIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
4	SWERTIAMARIN	Root				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
9	SWEROSIDE	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
14	SUCROSE	Root				--
18	MANGIFERIN	Plant				Abstract (See species file)
2	PHYTOSTEROLS	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.