

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Gentiana lutea*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
4	TIN	Root	9.0	40.0	2.3901698461602563	--
60	LIMONENE	Essential Oil		346800.0	1.2590716018100643	Abstract (See species file)
24	GENTIANINE	Root	6000.0	8000.0	1.0	--
0	THIAMINE	Root	2.0	7.8	0.717646386075359	--
0	PROTEIN	Seed		310000.0	0.6778734437162001	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Root	18040.0	82000.0	0.41237577047078894	--
39	NIACIN	Root	13.0	61.0	0.31188169659251	--
0	FIBER(CRUDE)	Root		120000.0	0.2580364813561677	--
0	FIBER(DIETARY)	Root		420000.0	0.23558261041932288	--
0	PROTEIN	Root	30360.0	138000.0	0.21995042993271519	--
65	MAGNESIUM	Root	603.0	2740.0	0.09495627526651279	--
28	CALCIUM	Root	1791.0	8140.0	0.0807362259091836	--
0	WATER	Root		780000.0	0.07039472351276986	--
0	FAT	Seed		260000.0	-0.028378370202724528	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	SUGARS	Root	22000.0	100000.0	-0.03757564189391796	--
4	PHOSPHORUS	Root	594.0	2700.0	-0.14368503617776215	--
5	ALUMINIUM	Root	64.0	291.0	-0.15634216717940302	--
31	THIAMIN	Root		4.8	-0.1667482173069163	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
53	BETA-CAROTENE	Root	9.0	39.0	-0.18704689349928313	--
60	SELENIUM	Root	0.4	1.8	-0.2344070430977907	--
24	CHROMIUM	Root	0.3	1.3	-0.30083292134545053	--
0	FAT	Root	2860.0	13000.0	-0.3294780368795451	--
6	IRON	Root	8.0	37.0	-0.38789995702739277	--
15	RIBOFLAVIN	Root	0.5	2.1	-0.4321138905848174	--
1	SODIUM	Root	9.0	41.0	-0.49368227192150566	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	POTASSIUM	Root	1929.0	8770.0	-0.5132071461769279	--
2	COBALT	Root	0.3	1.4	-0.5148215616573423	--
14	MANGANESE	Root	0.5	2.3	-0.5184092277453715	--
112	ASCORBIC-ACID	Root	40.0	183.0	-0.5413626409176785	--
5	STARCH	Root	35200.0	160000.0	-0.6514767798388345	--
77	ZINC	Root	0.6	2.9	-0.9319328403212439	--
0	GENTIODISE	Root				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
37	CARVACROL	Essential Oil				Abstract (See species file)
9	SWEROSIDE	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
0	LINALOL	Essential Oil				--
0	1-HYDROXY-3,7-DIMETHOXYXANTHONE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	SYRINGIC-ACID	Root				--
0	GENTIOBIOSE	Root	50000.0	80000.0		--
0	SECO-IRIDOIDS	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
2	ISOGENTISIN	Root		380.0		--
0	1,3,7-TRIMETHOXYXANTHONE	Root				--
4	SWERTIAMARIN	Root				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	GENTIIN	Root				--
102	CAFFEIC-ACID	Root				--

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2	PHYTOSTEROLS	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
14	SUCROSE	Root				--
0	GENTIANOSE	Root				--
24	PECTIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	SILICON	Root				--
21	LUPEOL	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
19	INULIN	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	OXYCINNAMIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	GENTIOPICOSIDE	Root	11400.0	35000.0		--
2	GENTISIN	Root		380.0		--
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.
0	GENTIAMARIN	Root				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	NICOTINIC-ACID-AMIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	AMAROAGENTIN	Root	100.0	3300.0		--

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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.
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.
0	GENTIALUTINE	Root				--
11	NICOTINIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	GENTISEIN	Root				--
0	SACCHAROSE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
23	ALPHA-TERPINEOL	Essential Oil				Abstract (See species file)
0	GENTIOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	7-O-PRIMVEROSYL-1-OXY-3-METHOXYXANTHONE	Root				Abstract (See species file)
18	MANGIFERIN	Plant				Abstract (See species file)
4	GENTIOPICRIN	Root	11400.0	35000.0		--
43	PROTOCATECHUIC-ACID	Root				--
0	CIS-LINALYL-OXIDE	Plant				--
0	2,3',4,6-TETRAHYDROXYBENZOPH ENONE	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)

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0	GENTIOFLAVOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	1-O-PRIMVEROSYL-7-OXY-3-METHOXYXANTHONE	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.