

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Gentiana lutea*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	GENTIOBIOSE	Root	50000.0	80000.0		--
5	STARCH	Root	35200.0	160000.0	-0.6514767798388345	--
0	PROTEIN	Root	30360.0	138000.0	0.21995042993271519	--
0	SUGARS	Root	22000.0	100000.0	-0.03757564189391796	--
0	ASH	Root	18040.0	82000.0	0.41237577047078894	--
4	GENTIOPIROSIDE	Root	11400.0	35000.0		--
4	GENTIOPICRIN	Root	11400.0	35000.0		--
24	GENTIANINE	Root	6000.0	8000.0	1.0	--
0	FAT	Root	2860.0	13000.0	-0.3294780368795451	--
14	POTASSIUM	Root	1929.0	8770.0	-0.5132071461769279	--
28	CALCIUM	Root	1791.0	8140.0	0.0807362259091836	--
65	MAGNESIUM	Root	603.0	2740.0	0.09495627526651279	--
4	PHOSPHORUS	Root	594.0	2700.0	-0.14368503617776215	--
6	AMAROGENTIN	Root	100.0	3300.0		--
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	--
53	BETA-CAROTENE	Root	9.0	39.0	-0.18704689349928313	--
4	TIN	Root	9.0	40.0	2.3901698461602563	--
6	IRON	Root	8.0	37.0	-0.38789995702739277	--
0	THIAMINE	Root	2.0	7.8	0.717646386075359	--
77	ZINC	Root	0.6	2.9	-0.9319328403212439	--
15	RIBOFLAVIN	Root	0.5	2.1	-0.4321138905848174	--
14	MANGANESE	Root	0.5	2.3	-0.5184092277453715	--
60	SELENIUM	Root	0.4	1.8	-0.2344070430977907	--
2	COBALT	Root	0.3	1.4	-0.5148215616573423	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	CHROMIUM	Root	0.3	1.3	-0.30083292134545053	--
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.
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.
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
4	SILICON	Root				--
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.

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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				--
0	FIBER(DIETARY)	Root		420000.0	0.23558261041932288	--
11	NICOTINIC-ACID	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
60	LIMONENE	Essential Oil		346800.0	1.2590716018100643	Abstract (See species file)
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.
0	FAT	Seed		260000.0	-0.028378370202724528	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
23	ALPHA-TERPINEOL	Essential Oil				Abstract (See species file)
0	FIBER(CRUDE)	Root		120000.0	0.2580364813561677	--
0	GENTIOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
18	MANGIFERIN	Plant				Abstract (See species file)
0	7-O-PRIMVEROSYL-1-OXY-3-METHOXYXANTHONE	Root				Abstract (See species file)
0	WATER	Root		780000.0	0.07039472351276986	--
43	PROTocatechuic-ACID	Root				--
0	CIS-LINALYL-OXIDE	Plant				--

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53	LINALOOL	Essential Oil				Abstract (See species file)
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.
0	GENTIOFLAVOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROTEIN	Seed		310000.0	0.6778734437162001	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.
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.
31	THIAMIN	Root		4.8	-0.1667482173069163	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
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				--

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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				--