

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Gentiana lutea*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	WATER	Root		780000.0	0.07039472351276986	--
0	FIBER(DIETARY)	Root		420000.0	0.23558261041932288	--
60	LIMONENE	Essential Oil		346800.0	1.2590716018100643	Abstract (See species file)
0	PROTEIN	Seed		310000.0	0.6778734437162001	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Seed		260000.0	-0.028378370202724528	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	STARCH	Root	35200.0	160000.0	-0.6514767798388345	--
0	PROTEIN	Root	30360.0	138000.0	0.21995042993271519	--
0	FIBER(CRUDE)	Root		120000.0	0.2580364813561677	--
0	SUGARS	Root	22000.0	100000.0	-0.03757564189391796	--
0	ASH	Root	18040.0	82000.0	0.41237577047078894	--
0	GENTIOBIOSE	Root	50000.0	80000.0		--
4	GENTIOPICRIN	Root	11400.0	35000.0		--
4	GENTIOPICROSIDE	Root	11400.0	35000.0		--
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	--
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	ISOGENTISIN	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	--

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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	--
0	THIAMINE	Root	2.0	7.8	0.717646386075359	--
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	--
18	MANGIFERIN	Plant				Abstract (See species file)
0	7-O-PRIMVEROSYL-1-OXY-3-METHOXYXANTHONE	Root				Abstract (See species file)
43	PROTocatechuic-acid	Root				--
0	CIS-LINALYL-OXIDE	Plant				--
0	2,3,4,6-TETRAHYDROXYBENZOPHENONE	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)
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.

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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	GENTIODISE	Root				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
37	CARVACROL	Essential Oil				Abstract (See species file)
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.
9	SWEROSIDE	Root				Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
6	SYRINGIC-ACID	Root				--
0	1,3,7-TRIMETHOXYXANTHONE	Root				--
0	SECO-IRIDOIDS	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.
0	GENTIIN	Root				--
102	CAFFEIC-ACID	Root				--
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				--

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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.
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.
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				--

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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.
4	SILICON	Root				--
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.