

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Pueraria montana*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	WIGHTEONE	Leaf Diffusate				--
0	WATER	Root		686000.0	-0.5448595234941394	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	TUBEROSIN	Stem				--
5	TUBEROSIN	Leaf Diffusate		106.0		--
0	TRANS-4-(BUT-TRANS-2-ENYLIDENE)-3,5,5-TRIMETHYLCYCLOHEX-2-EN-1-ONE	Leaf Essent. Oil		1000.0		--
0	TRANS-4-(BUT-CIS-2-ENYLIDENE)-3,5,5-TRIMETHYLCYCLOHEX-2-EN-1-ONE	Leaf Essent. Oil		230.0		--
0	TECTORIGENIN-7-O-GLUCOSIDE	Flower				--
5	TECTORIGENIN	Flower		70.0		--
1	TECTORIDIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	SUCCINIC-ACID	Root				--
0	STIZOLAMINE	Seed		2.1		--
12	STIGMASTEROL	Stem				--
8	STEARIC-ACID	Stem				--
5	STARCH	Root	130000.0	400000.0	0.35249191462533713	--
0	SOYASAPONIN-SA-3	Root		0.09		--
0	SOYASAPONIN-I	Root		1.5	-0.771802886765747	--
0	SOYASAPONIN-A-3	Root				--
0	SOYASAPOGENOL-B	Root				--
0	SOYASAPOGENOL-A	Root				--
0	SOPHORADIOL	Root				--
0	SISSITORIN	Flower				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	SILICA	Shoot	15000.0	52000.0	0.19036830250917935	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	SHEKANIN	Flower				--
22	SCOPARONE	Root				--
87	RUTIN	Leaf				--
10	ROBININ	Leaf	500.0	18700.0		--
15	RIBOFLAVIN	Shoot		8.0	-1.015123092949927	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
176	QUERCETIN	Root				--
176	QUERCETIN	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
176	QUERCETIN	Flower				--
0	PUEROSIDE-B	Root				--
0	PUEROSIDE-A	Root				--
0	PUERAROL	Root				--
0	PUERARIN-XYLOSIDE	Root				--
0	PUERARIN-APIOSIDE	Root				--
0	PUERARIN-7-O-XYLOSIDE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PUERARIN-4'-O-BETA-D-GLUCOSIDE	Root				--
49	PUERARIN	Plant				--
49	PUERARIN	Stem		208.0		--
49	PUERARIN	Tissue Culture		86.0		--
49	PUERARIN	Root	3.5	50300.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PUERARIA-GLYCOSIDE-PG-6	Root				--
0	PUERARIA-GLYCOSIDE-PG-3	Root				--
0	PUERARIA-GLYCOSIDE-PG-2	Root				--
0	PUERARIA-GLYCOSIDE-PG-1	Root				--
0	PUERARIA-GLYCOSIDE-6	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PUERARIA-GLYCOSIDE-5	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PUERARIA-GLYCOSIDE-4	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PUERARIA-GLYCOSIDE-3	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PUERARIA-GLYCOSIDE-2	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PUERARIA-GLYCOSIDE-1	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PROTEIN	Shoot	131000.0	168600.0	-0.3785499997118909	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PROTEIN	Root	21000.0	66890.0	-0.5785800891146337	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
6	PROPIONIC-ACID	Fruit Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	POTASSIUM	Shoot	16000.0	36050.0	0.8561443907517653	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	PHYTOL	Leaf Essent. Oil		46300.0		--
4	PHOSPHORUS	Shoot	470.0	2440.0	-0.43012350286689155	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	PHOSPHORUS	Root	180.0	575.0	-0.5170673277022045	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PHENYLETHANOL	Fruit Essent. Oil				--
2	PHASEOLLIDIN	Leaf Diffusate		2.0	-1.0	--
13	PALMITIC-ACID	Stem				--
0	P-HYDROXYBENZOIC-ACID-METHYL-ESTER	Stem		0.1		--
25	P-COUMARIC-ACID	Flower				--
25	P-COUMARIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	ONONIN	Flower				--
0	OCTAN-1-OL	Fruit Essent. Oil				--
0	OCT-1-EN-3-OL	Fruit Essent. Oil				--
0	NICOTIFLORIN	Leaf		350.0	1.0	--
0	N-ACYL-N-1-GLUCOSYLTRYPTOPHAN	Flower				--
2	MALVIN	Flower				--
65	MAGNESIUM	Shoot	800.0	850.0	-0.9192138294810521	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LUPIWIGHTEONE	Stem				--
0	LUPENONE	Root				--
0	LINOLENIC-ACID	Stem				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	LINOLEIC-ACID	Stem				--
0	KUZUBUTENOLIDE-A	Root		1.4		--
0	KUDZUSAPONIN-SB-1	Root		0.08		--
0	KUDZUSAPONIN-SA-4	Root		0.08		--
0	KUDZUSAPONIN-SA-3	Root		0.09		--
0	KUDZUSAPONIN-SA-2	Root		0.1		--
0	KUDZUSAPONIN-SA-1	Root		0.08		--
0	KUDZUSAPONIN-C-1	Root		0.09		--
0	KUDZUSAPONIN-A-5	Root		0.32		--
0	KUDZUSAPONIN-A-4	Root		0.08		--
0	KUDZUSAPONIN-A-3	Root		0.36		--
0	KUDZUSAPONIN-A-2	Root		0.08		--
0	KUDZUSAPONIN-A-1	Root		0.09		--
0	KUDZUSAPOGENOL-C	Root				--
0	KUDZUSAPOGENOL-B-METHYL-ESTER	Root				--
0	KUDZUSAPOGENOL-A	Root				--
0	KUDZUISOFLAVONE-B	Tissue Culture		1.75		--
0	KUDZUISOFLAVONE-A	Tissue Culture		0.75		--
0	KILOCALORIES	Root	1130.0	3600.0	0.5141842307747335	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	KAKKANIN	Flower				--
0	KAKKALIDE	Flower		16216.0		--
0	KAIKASAPONIN-III	Leaf		200.0		--
0	KAIKASAPONIN-III	Flower		32.4		--
0	KAEMPFEROL-3-O-RHAMNOSYL-GALACTOSIDE-7-O-RHAMNOSIDE	Plant				--
5	ISOVALERIC-ACID	Fruit Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	ISOLIQUIRITIGENIN	Root				--
0	ISOFLAVONES	Root	17700.0	120000.0		--
3	ISOAMYL-ALCOHOL	Fruit Essent. Oil				--
0	IRSOLIDONE-7-O-BETA-D-XYLOSYL-GLUCOSIDE	Flower				--
6	IRON	Root	6.0	19.0	-0.41405018579014385	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	IRISOLIDONE-7-O-XYLOSYLGLUCOSIDE	Flower				--
0	IRISOLIDONE-7-O-GLUCOSIDE	Flower				--
0	IRISOLIDONE-7-O-GLUCOSIDE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	IRISOLIDONE-7-O-BETA-D-GLUCOSIDE	Flower		2500.0		--
0	IRISOLIDONE	Flower				--
0	IRISOLIDONE	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEX-CIS-3-EN-1-OL	Fruit Essent. Oil				--
5	GLYCITEIN	Flower		88.0		--
3	GLYCINOL	Leaf				--
3	GLYCINOL	Leaf Diffusate		32.0		--
3	GENISTIN	Stem		21.0		--
3	GENISTIN	Root		1120.0		--
3	GENISTIN	Tissue Culture		53.0		--
3	GENISTIN	Flower				--
3	GENISTIN	Leaf		20.0		--
0	GENISTEIN-8-GLUCOSIDE	Tissue Culture				--
0	GENISTEIN-8-C-GLUCOSIDE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GENISTEIN-8-C-APIOSYL-(1,6)-GLUCOSIDE	Root		10.0		--
81	GENISTEIN	Leaf		316.9	-0.9017833288262167	Kaufman,PB,Duke,JA,Briellmann,H,Boik,J and Hoyt,JE. 1997. A Comparative Survey of Leguminous Plants as Sources of the Isoflavones Genistein and Daidzein: Implications For Human Nutrition and Health. Journal of Alternative & Complementary Medicine 3(1):7-12
81	GENISTEIN	Root				--
81	GENISTEIN	Leaf Diffusate		3.0	-0.8278486261082212	--
81	GENISTEIN	Stem				--
81	GENISTEIN	Flower				--
16	FORMONONETIN	Root				--
16	FORMONONETIN	Flower				--
16	FORMONONETIN	Rhizome				--
3	FLUORIDE	Root		6.6	-0.3778681094927793	--
0	FLAVONES	Root				--
15	FIBER	Stem		462000.0	1.1396711505257664	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	FIBER	Shoot	171000.0	275000.0	1.0771908220429884	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	FIBER	Root	7000.0	22300.0	-1.461573051927587	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Shoot	16000.0	35000.0	-0.21796356752901366	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FAT	Root	1000.0	3185.0	-0.6567944254485638	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
76	EUGENOL	Fruit Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	ETHYL-ACETATE	Fruit Essent. Oil				--
0	EO	Leaf Essent. Oil		120.0		--
0	DIADZIN	Stem		5.4		--
0	DI-O-METHYLDALDAZEIN	Root				--
1	DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Flower				--
0	DELPHINIDIN-3-DIGLUCOSIDE	Flower				--
5	DAUCOSTEROL	Flower				--
5	DAUCOSTEROL	Root				--
0	DAMASCENONE	Leaf Essent. Oil		19700.0	-1.0	--
10	DAIDZIN	Stem		35.0		--
10	DAIDZIN	Tissue Culture		119.0		--
10	DAIDZIN	Leaf		400.0		--
10	DAIDZIN	Root	5.3	6520.0		--
10	DAIDZIN	Plant				--
0	DAIDZEIN-8-C-APIOSYL-(1,6)-GLUCOSIDE	Root		100.0		--
0	DAIDZEIN-7-O-METHYL-ETHER	Root				--
0	DAIDZEIN-4,7-DIGLUCOSIDE	Root				--
0	DAIDZEIN-4,7-DIGLUCOSIDE	Plant				--
0	DAIDZEIN-4',7'-DI-O-BETA-D-GLUCOSIDE	Root				--
32	DAIDZEIN	Leaf		949.8	0.9999999999999997	Kaufman,PB,Duke,JA,Briemann,H,Boik,J and Hoyt,JE. 1997. A Comparative Survey of Leguminous Plants as Sources of the Isoflavones Genistein and Daidzein: Implications For Human Nutrition and Health. Journal of Alternative & Complementary Medicine 3(1):7-12
32	DAIDZEIN	Stem		510.0	1.0	--
32	DAIDZEIN	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
32	DAIDZEIN	Rhizome				--
32	DAIDZEIN	Root		1800.0	1.0	--
32	DAIDZEIN	Flower				--
13	COUMESTROL	Root				--
13	COUMESTROL	Stem		76.0		--
0	COUMARINS	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CIS-4-(BUT-TRANS-2-ENYLIDENE)-3,5,5-TRIMETHYLCYCLOHEX-2-EN-1-ONE	Leaf Essent. Oil		1900.0		--
0	CIS-4-(BUT-CIS-2-ENYLIDENE)-3,5,5-TRIMETHYLCYCLOHEX-2-EN-1-ONE	Leaf Essent. Oil		290.0		--
20	CHOLINE	Root				--
0	CAROTENE	Shoot		44.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CARBOHYDRATES	Root	271000.0	885350.0	0.7098962103934531	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	CAPROIC-ACID	Fruit Essent. Oil				--
0	CANTONIENSISTRIOL	Root				--
28	CALCIUM	Shoot	1600.0	1700.0	-0.9516729083531525	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
28	CALCIUM	Root	150.0	475.0	-0.7587195817437633	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BIOCHANIN-A-7-O-GLUCOSIDE	Flower				--
32	BIOCHANIN-A	Flower				--
32	BIOCHANIN-A	Root				--
4	BETA-SITOSTEROL-BETA-D-GLUCOSIDE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Stem				--
47	BETA-SITOSTEROL	Root				--
47	BETA-SITOSTEROL	Flower				--
9	BENZYL-ALCOHOL	Fruit Essent. Oil				--
20	BENZOIC-ACID	Fruit Essent. Oil				--
50	BAICALEIN	Root				--
0	ASH	Root	14000.0	44600.0	-0.6555994844699365	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ARACHIDIC-ACID	Root				--
101	APIGENIN	Root				--
12	ALLANTOIN	Root				--
19	ACETYL-CHOLINE	Root				--
0	8-PRENYLGENISTEIN	Stem				--
0	8-PRENYLDIADZEIN	Stem				--
0	8-PRENYLDAIDZEIN	Stem				--
0	8-C-GLUCOSYLGENISTEIN	Root				--
0	6-GERANYL-7,4'-DIHYDROXYCOUMESTAN	Root				--
1	6,7-DIMETHOXYCOUMARIN	Root				--
0	6"-O-MALONYLPUERARIN	Tissue Culture		40.0		--
0	6"-O-MALONYLPUERARIN	Root		1625.0		--
0	6"-O-MALONYLGENISTIN	Stem		27.0		--
0	6"-O-MALONYLGENISTIN	Root		630.0		--
0	6"-O-MALONYLGENISTIN	Tissue Culture		194.0		--
0	6"-O-MALONYLDAIDZIN	Stem		103.0		--
0	6"-O-MALONYLDAIDZIN	Tissue Culture		470.0		--
0	6"-O-MALONYLDAIDZIN	Root		8550.0		--
0	6"-O-MALONYL-GENISTEIN-8-C-GLUCOSIDE	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6"-O-D-XYLOSYPUERATIN	Root				--
0	5-METHYLHYDANTOIN	Root				--
0	4'-METHOXYPUERARIN	Root				--
0	4',7-DIHYDROXYISOFLAVONE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	3-O-(RHAMNOPYRANOSYL-PENTOSYL(1,2)GLUCURONOPYRANOSYL)-SOPHORADIOL	Flower		54.0		--
0	3-HYDROXY-BETA-IONONE	Leaf Essent. Oil		500.0		--
0	3-HYDROXY-BETA-DAMASCONE	Leaf Essent. Oil		19400.0		--
0	3-(2-O-GLUCOPYRANOSYL-4-METHOXY-PHENYL)-4-(4-HYDROXY-BENZYL)-BUT-2-EN-4-OLIDE	Root				--
0	3'-METHYLPUERARIN	Root				--
0	3'-METHOXYDAIDZIN	Root		25.0		--
0	3'-METHOXYDAIDZEIN	Root				--
0	3'-HYDROXYPUERARIN	Root				--
0	3'-HYDROXY-4'-O-BETA-D-GLUCOSYLPUERARIN	Root				--
0	2-METHOXY-5-VINYLPHENOL	Leaf Essent. Oil		18300.0		--
2	2-METHOXY-4-VINYLPHENOL	Leaf Essent. Oil		80600.0		--
0	2,4-DIHYDROXYBENZOIC-ACID-METHYL-ESTER	Stem		0.3		--
0	(-)-LINALOOL	Fruit Essent. Oil				--
3	(-)-GLYCINOL	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	(+)-PINITOL	Root				--
0	(+)-MAGNESIUM-LACTATE	Root				--
0	(+)-L-LACTIC-ACID	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	(+)-D-PINITOL	Root				--