

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Scutellaria baicalensis*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	(+)-5,5'-DIMETHOXYLARICIRESINOL	Root		22.0		--
0	(-)-ERODICTYOL	Root		7.0		--
0	(2R,3R)-2',3,5,6',7-PENTAHYDROXYFLAVONONE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	1-PHENYL-BUTANE-1,3-DIONE	Root Essent. Oil				--
0	2',3',5,7-TETRAHYDROXYFLAVONE	Root		6.4		--
0	2',3,5,6',7-PENTAHYDROXY-2(R),3(R)-FLAVANONE	Root		420.0		--
0	2',3,5,6',7-PENTAHYDROXYFLAVANONE	Root		120.0		--
0	2',3,5,6',7-PENTAHYDROXYFLAVONE	Root		10.0		--
0	2',3,5,6',7-PENTAMETHOXYFLAVANONE	Root		674.0		--
0	2',5,5',7-TETRAHYDROXY-6',8-DIMETHOXYFLAVONE	Root	17.0	356.0		--
0	2',5,5',7-TETRAHYDROXYFLAVONE	Root		3.5		--
0	2',5,5'-TRIHYDROXY-6,7,8-TRIMETHOXYFLAVONE	Root		4.0		--
0	2',5,5'-TRIHYDROXY-7,8-DIMETHOXYFLAVONE	Root				--
0	2',5,6',7-TETRAHYDROXY-2(S)-FLAVANONE	Root		380.0		--
0	2',5,6',7-TETRAHYDROXYFLAVANONE	Stem				--
0	2',5,6',7-TETRAHYDROXYFLAVANONE	Root				--
0	2',5,6',7-TETRAHYDROXYFLAVONE	Root				--
0	2',5,6'-TETRAHYDROXYFLAVANONE	Root				--
0	2',5,6'-TRIHYDROXY-7,8-DIMETHOXYFLAVONE	Root		7.0		--
0	2',5,7-TRIHYDROXY-6',8-DIMETHOXYFLAVONE	Root		9.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2',5,7-TRIHYDROXY-6',8-TRIMETHOXYFLAVONE	Root		7.0		--
0	2',5,7-TRIHYDROXY-6'-METHOXYFLAVONE	Root		4.0		--
0	2',5,7-TRIHYDROXY-8-METHOXYFLAVONE	Root		6.0		--
0	2',5,7-TRIHYDROXYFLAVONE	Root		6.0		--
0	2',5,8-TRIHYDROXY-6,7-DIMETHOXYFLAVONE	Root		200.0		--
0	2'-METHYLSKULLCAPFLAVONE	Root				--
0	2(S),2',5,6',7-TETRAHYDROXYFLAVANONE	Root		230.0		--
0	2,2',4',6-TETRAHYDROXY-6'-METHOXYCHALCONE	Root		5.0		--
1	2,3-DIHYDROBENZOFURAN	Root Essent. Oil				--
0	2-FORMYL-PYRROLE	Root Essent. Oil				--
0	2-HYDROXYACETOPHENONE	Root Essent. Oil				--
0	2-METHYL-BENZYL-ALCOHOL	Root Essent. Oil				--
0	2-PENTYL-FURAN	Root Essent. Oil				--
0	2-PHENYL-BUTAN-2-ONE	Root Essent. Oil				--
0	2S-2',5,6',7-TETRAHYDROXYFLAVONONE	Root				Abstract (See species file)
0	3-PHENYL-FURAN	Root Essent. Oil				--
0	3-PHENYL-PROP-2-EN-1-AL	Root Essent. Oil				--
0	4',5,7-TRIHYDROXY-6-METHOXY-FLAVANONE	Root		115.0		--
0	4',5,7-TRIHYDROXY-8-METHOXYFLAVONE	Root	20.0	30.0		--
0	4-ETHENYLGUAICOL	Root Essent. Oil				--
0	4-METHOXY-ACETOPHENONE	Root Essent. Oil				--
0	4-METHOXY-BENZALDEHYDE	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4-PHENYL-BUT-CIS-3-EN-2-ONE	Root Essent. Oil				--
0	4-PHENYL-BUT-TRANS-3-EN-2-ONE	Root Essent. Oil				--
0	5,2',5'-TRIHYDROXY-6,7,8-TRIMETHOXYFLAVONE	Root				Abstract (See species file)
0	5,7,2',5'-TETRAHYDROXY-8,6'-DIMETHOXYFLAVONE	Root				Abstract (See species file)
0	5,7,2'-TRIHYDROXY-8-METHOXYFLAVONE	Root				Abstract (See species file)
0	5,7,2'-TRIHYDROXYFLAVONE	Root				Abstract (See species file)
0	5,7-DIHYDROXY-6-METHOXYFLAVONE	Root				--
0	5,8-DIHYDROXY-6,7-DIMETHOXYFLAVONE	Root		50.0		--
0	5-HYDROXY-7,8-DIMETHOXYFLAVONE	Root		5.0		--
0	5-METHYL-FUR-2-ALDEHYDE	Root Essent. Oil				--
0	7-METHOXY-BAICALEIN	Root				--
16	ACETIC-ACID	Root Essent. Oil				--
6	ACETOPHENONE	Root Essent. Oil				--
0	ACETYLPYRROLE	Root Essent. Oil				--
0	ALPHA-CUBEBENE	Root Essent. Oil				--
101	APIGENIN	Leaf		60.0		--
0	APIGENIN-7-O-GLUCURONIDE	Leaf		40.0		--
14	ARGININE	Root				--
2	ARSENIC	Root		0.18	-0.19984804393860506	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
3	ASPARTIC-ACID	Root				--
50	BAICALEIN	Root	1000.0	54000.0		--
50	BAICALEIN	Stem		400.0		--
0	BAICALEIN-7-O-BETA-D-GLUCOPYRANOSIDE	Root		50.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	BAICALEIN-7-O-BETA-D-GLUCOSIDE	Root				--
0	BAICALEIN-7-O-BETA-O-D-GLUCOPYRANOSIDE	Root				Abstract (See species file)
0	BAICALEIN-7-O-GLUCOSIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	BAICALEIN-GLUCOSIDE	Stem				--
0	BAICALEIN-GLUCOSIDE	Tissue Culture				--
40	BAICALIN	Root	1000.0	206000.0		--
40	BAICALIN	Tissue Culture				--
40	BAICALIN	Plant				--
40	BAICALIN	Stem	5800.0	43000.0		--
0	BAICALIN-7-GLUCURONIDE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
1	BAICALIN-A	Plant				Cell Mol. Biol. Res. (Vol 39=1993)
0	BAICALIN-GLUCURONIDE	Root				--
0	BAICALIN-METHYL-ESTER	Root		27.0		--
0	BAICALINASE	Root				--
20	BENZOIC-ACID	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
20	BENZOIC-ACID	Root Essent. Oil				--
0	BENZYL-O-BETA-D-APIOFURANOSYL-(1,2)-BETA-D-GLUCOPYRANOSIDE	Root		13.0		--
0	BETA-DAMASCONE	Root Essent. Oil				--
5	BETA-ELEMENE	Root Essent. Oil				--
13	BETA-EUDESMOL	Root Essent. Oil				--
47	BETA-SITOSTEROL	Root				--
0	BUTA-1,3-DIENYLBENZENE	Root Essent. Oil				--
10	BUTYLIDENE-PHTHALIDE	Root Essent. Oil				--
28	CALCIUM	Root	4630.0	10300.0	0.3172952010599162	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CAMPESTEROL	Root				--
0	CARTHAMIDIN	Leaf				--
0	CARTHAMIDIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
60	CHRYSIN	Stem				--
60	CHRYSIN	Leaf		40.0		--
60	CHRYSIN	Root	3.0	800.0		--
0	CHRYSIN-6-C-ALPHA-L- ARABINOSIDE-8-C-BETA-D- GLUCOSIDE	Root		2000.0		--
0	CHRYSIN-6-C-BETA-D- GLUCOSIDE	Root				--
0	CHRYSIN-6-C-BETA-D- GLUCOSIDE-8-C-ALPHA-L- ARABINOSIDE	Root		100.0		--
0	CHRYSIN-7-O-BETA-D- GLUCOSIDE	Root		43.0		--
0	CHRYSIN-8-C-BETA-D- GLUCOSIDE	Root		46.0		--
5	CNIDILIDE	Root Essent. Oil				--
12	COPPER	Root	13.0	18.0	0.6951955719896852	--
0	CYCLOOCTA-1,3,5,7- TETRAENE	Root Essent. Oil				--
1	D-GLUCOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	DARENDROSIDE-A	Root		16.0		--
0	DARENDROSIDE-B	Root		18.0		--
5	DAUCOSTEROL	Root				--
3	DECANOIC-ACID	Root Essent. Oil				--
0	DICHLOROOROXYLIN-A	Tissue Culture				--
0	DIHYDROBAICALIN	Root		5.0		--
0	DIHYDROOROXYLIN	Root				--
0	DIHYDROOROXYLIN	Plant				--
0	DIHYDROOROXYLIN-A	Stem				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DIHYDROOROXYLIN-A	Plant				--
0	DIHYDROOROXYLIN-A	Root		9.0		--
16	ELEMICIN	Root Essent. Oil				--
76	EUGENOL	Root Essent. Oil				--
4	FERRUGINOL	Root Essent. Oil				--
3	FLUORIDE	Root		3.5	-0.7078374445428119	--
0	GANHUANGENIN	Root				--
2	GERANYL-ACETONE	Root Essent. Oil				--
8	GLUTAMIC-ACID	Root				--
12	GLYCINE	Root				--
18	GUAIACOL	Root Essent. Oil				--
0	HEDYOTOL-C-4"-O-BETA-D-GLUCOPYRANOSIDE	Root		38.0		--
0	HEDYOTOL-D-4"-O-BETA-D-GLUCOPYRANOSIDE	Root		32.0		--
0	HEPTANOIC-ACID	Root Essent. Oil				--
0	HEXAHYDROFARNESYL-ACETONE	Root Essent. Oil				--
0	HEXANO-4-LACTONE	Root Essent. Oil				--
0	HUANGQIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
15	INDOLE	Root Essent. Oil				--
6	IRON	Root	170.0	220.0	-0.12203929793942322	--
0	ISOCARTHAMIDIN	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	ISOCARTHAMIDIN	Leaf				--
16	ISOEUGENOL	Root Essent. Oil				--
0	ISOMARTYNOSIDE	Root		23.0		--
2	ISOSCUTELLAREIN	Leaf		6.0		--
0	ISOSCUTELLAREIN-8-O-GLUCURONIDE	Leaf		30.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOWOGONIN	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	KOGANEBANAIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	KOGANEBANANIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
2	LEUCINE	Root				--
0	LEUCOSCEPTOSIDE-A	Root		0.013		--
7	LIGUSTILIDE	Root Essent. Oil				--
53	LINALOOL	Root Essent. Oil				--
4	LYSINE	Root				--
65	MAGNESIUM	Root	7170.0	7220.0	2.478785246403923	--
11	MALTOL	Root Essent. Oil				--
14	MANGANESE	Root	18.0	29.0	-0.19958637430063508	--
23	MELATONIN	Leaf		7.0	-0.7050095792557313	--
1	MERCURY	Root		0.08	-0.22436911587835454	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
15	METHIONINE	Root				--
1	N-BUTYLPHTHALIDE	Root Essent. Oil				--
0	N-DOCOSANE	Root Essent. Oil				--
0	N-DODECANE	Root Essent. Oil				--
0	N-EICOSANE	Root Essent. Oil				--
0	N-HENEICOSANE	Root Essent. Oil				--
0	N-HEPTACOSANE	Root Essent. Oil				--
0	N-HEPTADECANE	Root Essent. Oil				--
2	N-HEXACOSANE	Root Essent. Oil				--
0	N-HEXADECANE	Root Essent. Oil				--
0	N-NONADECANE	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-OCTADECANE	Root Essent. Oil				--
0	N-PENTACOSANE	Root Essent. Oil				--
0	N-PENTADECANE	Root Essent. Oil				--
0	N-TETRACOSANE	Root Essent. Oil				--
0	N-TETRADECANE	Root Essent. Oil				--
0	N-TRICOSANE	Root Essent. Oil				--
0	N-TRIDECANE	Root Essent. Oil				--
0	NEOBAICALEIN	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	NEOBAICALEIN	Root				--
0	NEOCNIDILIDE	Root Essent. Oil				--
2	NONANOIC-ACID	Root Essent. Oil				--
0	NORWOGONIN	Root		10.0		--
6	O-CRESOL	Root Essent. Oil				--
0	OCHRACIN	Root Essent. Oil				--
5	OCTANOIC-ACID	Root Essent. Oil				--
18	OLEIC-ACID	Root Essent. Oil				--
0	OROXYLIN	Root				--
4	OROXYLIN-A	Root	110.0	415.0		--
4	OROXYLIN-A	Plant				--
4	OROXYLIN-A	Stem				--
0	OROXYLIN-A-7-O-GLUCURONIDE	Root	1000.0	41000.0		--
0	OROXYLIN-A-7-O-GLUCURONIDE-METHYL-ESTER	Root		100.0		--
0	OROXYLIN-A-GLUCURONIDE	Root				--
0	OROXYLIN-A-GLUCURONIDE	Stem				--



Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
8	P-CRESOL	Root Essent. Oil				--
20	PAEONOL	Root Essent. Oil				--
13	PALMITIC-ACID	Root Essent. Oil				--
0	PALMITIC-ACID-METHYL-ESTER	Root Essent. Oil				--
26	PHENOL	Root Essent. Oil				--
2	PHENYL-ACETALDEHYDE	Root Essent. Oil				--
0	PHENYL-ETHYL-ALCOHOL	Root Essent. Oil				--
7	PHENYLALANINE	Root				--
0	PHTHALIC-ACID-DIBUTYL-ESTER	Root Essent. Oil				--
0	PHTHALIC-ACID-DIOCTYL-ESTER	Root Essent. Oil				--
14	POTASSIUM	Root	6200.0	9120.0	-0.4875789454229002	--
0	PROLINE	Root				--
0	RIVULARIN	Root		50.0		--
1	SALIDROSIDE	Root		8.0		--
0	SALVIGENIN	Leaf		4.0		--
0	SCUTEBAICALIN	Shoot		184.0		--
7	SCUTELLAREIN	Leaf		30.0		--
7	SCUTELLAREIN	Root				--
0	SCUTELLARIN	Plant				--
0	SCUTELLARIN	Root				--
0	SENKYUNOLIDE	Root Essent. Oil				--
1	SERINE	Root				--
0	SKULLCAPFLAVONE-I	Root				--
4	SKULLCAPFLAVONE-II	Stem				--
4	SKULLCAPFLAVONE-II	Root	3.3	863.0		--
1	SODIUM	Root	740.0	991.0	-0.05134802217103382	--
8	STEARIC-ACID	Root Essent. Oil				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	STIGMASTEROL	Root				--
14	SUCROSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	SYRINGARESINOL-O-BETA-D-GLUCOSIDE	Root		52.0		--
23	TERPINEN-4-OL	Root Essent. Oil				--
0	TETRADECANOIC-ACID	Root Essent. Oil				--
4	THREONINE	Root				--
0	TRANS-CARYOPHYLLENE	Root Essent. Oil				--
28	VANILLIN	Root Essent. Oil				--
20	VERBASCOSIDE	Root		74.0		--
0	VISCIDULIN-III	Root		37.0		--
0	VISCIDULIN-III-2'-O-BETA-D-GLUCOPYRANOSIDE	Root		100.0		--
16	WOGONIN	Plant				--
16	WOGONIN	Stem		2100.0		--
16	WOGONIN	Leaf		40.0		--
16	WOGONIN	Root	34.7	7300.0		--
0	WOGONIN-5-BETA-D-GLUCOSIDE	Root				--
0	WOGONIN-7-O-BETA-D-GLUCURONIDE	Root				--
0	WOGONIN-7-O-BETA-D-GLUCURONIDE-METHYL-ESTER	Root				--
0	WOGONIN-7-O-D-GLUCURONIDE	Root				--
0	WOGONIN-7-O-GLUCURONIC-ACID	Tissue Culture				--
1	WOGONIN-7-O-GLUCURONIDE	Root	119.0	54000.0		--
1	WOGONIN-7-O-GLUCURONIDE	Stem		33200.0		--
1	WOGONIN-7-O-GLUCURONIDE-METHYL-ESTER	Root		30.0		--
0	WOGONIN-GLUCURONIDE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	WOGONOSIDE	Root		39700.0		--
77	ZINC	Root	17.0	18.0	-0.27058763773169275	--