

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Coleus barbatulus*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-FERRUGINOL	Stem		700.0		Jim Duke's personal files.
0	(+)-FERRUGINOL	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	1,9-DIDEOXY-7-DEACETYL-FORSKOHLIN	Plant				Phytochemistry, 29: 821.
0	1,9-DIDEOXYCOLEONOL	Root		80.0		Jim Duke's personal files.
0	1,9-DIDEOXYFORSKOHLIN	Plant				Phytochemistry, 29: 821.
0	1,9-DIDEOXYFORSKOLIN	Tissue Culture				Jim Duke's personal files.
0	1,9-DIDEOXYFORSKOLIN	Root				Jim Duke's personal files.
0	1-ACETOXY-COLEOSOL	Root		12.0		Jim Duke's personal files.
0	1-ACETYL-FORSKOLIN	Flower				Jim Duke's personal files.
0	1-ALPHA-6-BETA-7-ALPHA-TRIACETYL-COLEONOL-B	Flower				Jim Duke's personal files.
0	1-DEOXYFORSKOLIN	Root		10.0		Jim Duke's personal files.
0	16(R)-PLECTRINON-A	Leaf		10.8		Jim Duke's personal files.
0	20-DEOXOCARNOSOL	Stem		585.0	-1.0	--
0	3BETA-HYDROXY-3-DEOXYBARBATUSIN	Leaf		140.0		--
0	6-ALPHA-HYDROXY-CARNOSOL	Stem				Jim Duke's personal files.
0	6-BETA-7-BETA-DIHYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Root		24.0		Jim Duke's personal files.
0	6BETA,7BETA,9ALPHA-TRIHYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Root		26.0		Jim Duke's personal files.
0	6BETA,7BETA,9ALPHA-TRIHYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Plant				Phytochemistry, 29: 821.
0	6BETA-HYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Plant				Phytochemistry, 29: 821.
0	6BETA-HYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Root		20.0		Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	6BETA-HYDROXY-CARNOSOL	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
0	6BETA-HYDROXY-CARNOSOL	Plant				Jim Duke's personal files.
0	7-BETA-ACETOXY-1-ALPHA-6-BETA-DIHYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Root		56.0		Jim Duke's personal files.
0	7-BETA-ACETOXY-6-BETA-HYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Root		90.0		Jim Duke's personal files.
0	7BETA-ACETOXY-6BETA,9ALPHA-DIHYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Root		130.0		Jim Duke's personal files.
0	7BETA-ACETOXY-6BETA,9ALPHA-DIHYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Plant				Phytochemistry, 29: 821.
0	8,13-EPOXY-LABD-14-EN-11-ONE	Plant				Phytochemistry, 29: 821.
0	8,13-EPOXY-LABD-14-EN-11-ONE	Root		26.0		Jim Duke's personal files.
0	9-ALPHA-HYDROXY-8,13-EPOXY-LABD-14-EN-11-ONE	Root		18.0		Jim Duke's personal files.
0	9-DEOXYFORSKOHLIN	Plant				Phytochemistry, 29: 821.
0	ACETYL-FORSKOLIN	Tissue Culture				Jim Duke's personal files.
0	ALLYL-ROYLEANONE	Leaf				Jim Duke's personal files.
0	ALPHA-COPAENE	Root Essent. Oil		5000.0	-1.0	Jim Duke's personal files.
3	ALPHA-CURCUMENE	Root Essent. Oil		13000.0	1.0	Jim Duke's personal files.
2	ALPHA-HUMULENE	Stem Essent. Oil		84800.0		Jim Duke's personal files.
2	ALPHA-HUMULENE	Leaf Essent. Oil		84800.0	2.123092147042806	Jim Duke's personal files.
5	ALPHA-IONONE	Root Essent. Oil		14000.0		Jim Duke's personal files.
11	ALPHA-PHELLANDRENE	Stem Essent. Oil		94300.0		Jim Duke's personal files.
11	ALPHA-PHELLANDRENE	Leaf Essent. Oil		94300.0	-0.49783406126367846	Jim Duke's personal files.
28	ALPHA-PINENE	Stem Essent. Oil		66800.0	1.0	Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	ALPHA-PINENE	Leaf Essent. Oil		66800.0	-0.3856704219234889	Jim Duke's personal files.
28	ALPHA-PINENE	Root Essent. Oil		77000.0	-0.3740819075912684	Jim Duke's personal files.
13	ALPHA-TERPINENE	Stem Essent. Oil		4000.0		Jim Duke's personal files.
13	ALPHA-TERPINENE	Leaf Essent. Oil		4000.0	-0.40119306019054174	Jim Duke's personal files.
23	ALPHA-TERPINEOL	Stem Essent. Oil		1000.0		Jim Duke's personal files.
23	ALPHA-TERPINEOL	Leaf Essent. Oil		1000.0	-0.8444420280137835	Jim Duke's personal files.
0	ALPHA-TERPINOLENE	Stem Essent. Oil		1000.0		Jim Duke's personal files.
0	ALPHA-TERPINOLENE	Leaf Essent. Oil		1000.0		Jim Duke's personal files.
0	ALPHA-THUJENE	Root Essent. Oil		3000.0	-0.7732821835157451	Jim Duke's personal files.
0	BARBATUSIN	Leaf		3000.0		Jim Duke's personal files.
0	BARBATUSIN	Plant				Abstract (See species file)
0	BARBATUSOL	Stem		1500.0		Jim Duke's personal files.
0	BARBATUSOL	Leaf				Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
6	BETA-BISABOLENE	Root Essent. Oil		13000.0	-0.42853564535296584	Jim Duke's personal files.
0	BETA-CARYOPHYLLENE	Stem Essent. Oil		107100.0		Jim Duke's personal files.
0	BETA-CARYOPHYLLENE	Leaf Essent. Oil		107100.0	0.23196291961468088	Jim Duke's personal files.
5	BETA-ELEMENE	Root Essent. Oil		14000.0	-1.0	Jim Duke's personal files.
13	BETA-IONONE	Root Essent. Oil		64000.0		Jim Duke's personal files.
3	BETA-PHELLANDRENE	Root Essent. Oil		10000.0	1.0	Jim Duke's personal files.
13	BETA-PINENE	Stem Essent. Oil		40100.0	1.0	Jim Duke's personal files.
13	BETA-PINENE	Leaf Essent. Oil		40100.0	0.9061012939723879	Jim Duke's personal files.
13	BETA-PINENE	Root Essent. Oil		54000.0	-0.4550569268799015	Jim Duke's personal files.
35	BORNEOL	Stem Essent. Oil		11900.0		Jim Duke's personal files.
35	BORNEOL	Leaf Essent. Oil		11900.0	-0.5226484135533004	Jim Duke's personal files.
0	BORNEOL-ACETATE	Stem Essent. Oil		4300.0		Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	BORNEOL-ACETATE	Leaf Essent. Oil		4300.0	-0.5595150823650494	Jim Duke's personal files.
0	BORNEOL-ACETATE	Root Essent. Oil		200000.0	-0.7071067811865482	Jim Duke's personal files.
102	CAFFEIC-ACID	Root		42.9	-0.8784223898990208	Jim Duke's personal files.
9	CAMPHENE	Stem Essent. Oil		11200.0		Jim Duke's personal files.
9	CAMPHENE	Leaf Essent. Oil		11200.0	-0.47873189704519575	Jim Duke's personal files.
9	CAMPHENE	Root Essent. Oil		64000.0	-1.0	Jim Duke's personal files.
41	CAMPHOR	Stem Essent. Oil		2500.0		Jim Duke's personal files.
41	CAMPHOR	Leaf Essent. Oil		2500.0	-0.8262065309494772	Jim Duke's personal files.
0	CAR-3-ENE	Stem Essent. Oil		7400.0		Jim Duke's personal files.
0	CAR-3-ENE	Leaf Essent. Oil		7400.0	-1.0	Jim Duke's personal files.
0	CARIOCAL	Stem		800.0		Jim Duke's personal files.
37	CARVACROL	Stem Essent. Oil		2000.0		Jim Duke's personal files.
37	CARVACROL	Leaf Essent. Oil		2000.0		Jim Duke's personal files.
0	COLEFORSIN	Root				Jim Duke's personal files.
0	COLEFORSINE	Root		500.0		Jim Duke's personal files.
0	COLEOL	Plant				Phytochemistry, 29: 821.
0	COLEOL	Root		30.0		Jim Duke's personal files.
0	COLEON-E	Leaf	516.7	2100.0		Jim Duke's personal files.
0	COLEON-F	Leaf		773.3		Jim Duke's personal files.
0	COLEON-O	Leaf				Jim Duke's personal files.
1	COLEONOL	Leaf				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
0	COLEONOL-B	Root				Jim Duke's personal files.
0	COLEONOL-B	Plant				Jim Duke's personal files.
0	COLEONOL-B	Tissue Culture				Jim Duke's personal files.
0	COLEONOL-B	Flower				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	COLEONOL-C	Root				Jim Duke's personal files.
0	COLEONOL-D	Root		7.0		Jim Duke's personal files.
0	COLEONOLIC-ACID	Root				Jim Duke's personal files.
0	COLEONOLS	Tuber				Economic Botany, a publication of the Society for Economic Botany, The New York Botanical Garden. 41: 474.
0	COLEONONE	Root				Jim Duke's personal files.
0	COLEONS	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	COLEOSIDE	Root	28.6	42.8		Jim Duke's personal files.
0	COLEOSIDE-B	Root		71.4		Jim Duke's personal files.
0	COLEOSOL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	COLEOSOL	Root		70.0		Jim Duke's personal files.
0	COLEUS-BARBATUS-SECO-ABIENTANE-DITERPENE-1	Stem		60.0		Jim Duke's personal files.
0	COLEUS-BARBATUS-SECO-DITERPENE-2	Stem		10.0		Jim Duke's personal files.
1	COPAENE	Stem Essent. Oil		30600.0		Jim Duke's personal files.
1	COPAENE	Leaf Essent. Oil		30600.0		Jim Duke's personal files.
0	CROCETIN-DIALDEHYDE	Shoot				Jim Duke's personal files.
0	CROCETIN-DIALDEHYDE	Root		20.0		Jim Duke's personal files.
1	CUPARENE	Root Essent. Oil		16000.0		Jim Duke's personal files.
0	CYCLOBUTATUSIN	Leaf		80.0		--
0	DEACETYL-FORSKOHLIN	Plant				Phytochemistry, 29: 821.
0	DEACETYL-FORSKOLIN	Root		51.0		Jim Duke's personal files.
0	DEACETYL-FORSKOLIN	Flower				Jim Duke's personal files.
0	DECAN-3-ONE	Root Essent. Oil		177000.0		Jim Duke's personal files.
3	DEHYDROABIETANE	Root Essent. Oil				Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	DELTA-CADINENE	Stem Essent. Oil		63500.0		Jim Duke's personal files.
0	DELTA-SELINENE	Root Essent. Oil		4000.0		Jim Duke's personal files.
0	DEOXYCOLEONOL	Root				Jim Duke's personal files.
34	FORSKOLIN	Tissue Culture		500.0		Jim Duke's personal files.
34	FORSKOLIN	Shoot		90.0		Jim Duke's personal files.
34	FORSKOLIN	Tuber		4630.0		--
34	FORSKOLIN	Root	14.0	4400.0		Jim Duke's personal files.
34	FORSKOLIN	Plant		500.0		Jim Duke's personal files.
0	GAMMA-CURCUMENE	Root Essent. Oil		50000.0		Jim Duke's personal files.
11	GAMMA-TERPINENE	Stem Essent. Oil		2100.0		Jim Duke's personal files.
11	GAMMA-TERPINENE	Leaf Essent. Oil		2100.0	-0.6971165104943313	Jim Duke's personal files.
2	HUMULENE	Root Essent. Oil		17000.0	-1.0	Jim Duke's personal files.
53	LINALOOL	Stem Essent. Oil		3900.0		Jim Duke's personal files.
53	LINALOOL	Leaf Essent. Oil		3900.0	-0.6711527378805481	Jim Duke's personal files.
7	LINALYL-ACETATE	Stem Essent. Oil		8100.0		Jim Duke's personal files.
7	LINALYL-ACETATE	Leaf Essent. Oil		8100.0		Jim Duke's personal files.
0	MANOOL-OXIDE	Root Essent. Oil				Jim Duke's personal files.
22	MYRCENE	Stem Essent. Oil		3800.0	-1.0	Jim Duke's personal files.
22	MYRCENE	Leaf Essent. Oil		3800.0	-0.352001778467062	Jim Duke's personal files.
22	MYRCENE	Root Essent. Oil		4000.0	-0.6155432093874083	Jim Duke's personal files.
0	NONAN-3-ONE	Root Essent. Oil		6000.0		Jim Duke's personal files.
16	P-CYMENE	Stem Essent. Oil		24600.0	1.0	Jim Duke's personal files.
16	P-CYMENE	Leaf Essent. Oil		24600.0	-0.413105578018268	Jim Duke's personal files.
16	P-CYMENE	Root Essent. Oil		2000.0	-1.00023727413413	Jim Duke's personal files.
0	PHYTANE	Root Essent. Oil				Jim Duke's personal files.
7	PIPERITONE	Leaf Essent. Oil		1000.0		Jim Duke's personal files.
0	PLECTRIN	Leaf		1000.0		Jim Duke's personal files.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	PLECTRINON-B	Leaf		2.5		Jim Duke's personal files.
0	PRISTANE	Root Essent. Oil				Jim Duke's personal files.
23	TERPINEN-4-OL	Stem Essent. Oil		2900.0		Jim Duke's personal files.
23	TERPINEN-4-OL	Leaf Essent. Oil		2900.0	-0.5245650685397517	Jim Duke's personal files.
0	TRIACETYL-COLEONOL-B	Tissue Culture				Jim Duke's personal files.