

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Hydrastis canadensis*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-CANADINE	Rhizome				--
3	(-)-ALPHA-HYDRASTINE	Plant				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
1	(-)-CANADINE	Plant				--
0	5-HYDROXYTETRAHYDROBERBERINE	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ALKALOIDS	Root	25000.0	42900.0	1.175183737997903	--
0	ALKALOIDS	Rhizome	18600.0	33800.0	1.3660977557517635	--
3	ALPHA-HYDRASTINE	Root				--
5	ALUMINUM	Root	90.0	325.0	-0.1380992344029949	--
112	ASCORBIC-ACID	Root	189.0	681.0	-0.25668368648487233	--
0	ASH	Root	18282.0	66000.0	-0.04451203912952142	--
126	BERBERASTINE	Plant				--
126	BERBERASTINE	Rhizome	20000.0	30000.0		--
130	BERBERINE	Shoot				--
130	BERBERINE	Rhizome		50000.0	-1.507556722888818	--
130	BERBERINE	Plant				--
130	BERBERINE	Root	1385.0	60000.0	0.90147316172384	--
53	BETA-CAROTENE	Root	0.8	3.0	-0.4172395028869181	--
0	BETA-HYDRASTINE	Rhizome		4833.3		--
28	CALCIUM	Root	823.0	2970.0	-0.48547206183585695	--
0	CANADALINE	Root		450.0		--
0	CANADALINE	Rhizome				--
1	CANADINE	Root	693.0	2500.0		--
1	CANADINE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CANDALINE	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	CARBOHYDRATES	Root	227971.0	823000.0	-0.09032909443647177	--
77	CHLOROGENIC-ACID	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
77	CHLOROGENIC-ACID	Plant				--
24	CHROMIUM	Root	0.3	0.9	-0.3805576061834531	--
2	COBALT	Root	4.2	15.3	-0.21312131765045375	--
2	CORYPALMINE	Root		2.0		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	D-FRUCTOSE	Plant				--
0	D-GALACTOSE	Plant				--
1	D-GLUCOSE	Plant				--
0	FAT	Root	6371.0	23000.0	0.004007840419506115	--
15	FIBER	Root		123000.0	0.774806535401351	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FIBER(CRUDE)	Root		123000.0	0.3467683939173794	--
0	FIBER(DIETARY)	Root		392000.0	-0.07020673820443385	--
0	HYDRASTIDINE	Root		91.0		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	HYDRASTIDINE	Rhizome		118.3		--
16	HYDRASTINE	Plant	15000.0	40000.0		--
16	HYDRASTINE	Rhizome				--
16	HYDRASTINE	Root	4155.0	40000.0		--
5	HYDRASTININE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HYDRASTIS-CANADENSIS-ALKALOID-10	Rhizome		28.0		--
0	HYDRASTIS-CANADENSIS-ALKALOID-11	Rhizome		8.3		--
8	INOSITOL	Root				--
8	INOSITOL	Plant				--
8	INOSITOL	Leaf				--
6	IRON	Root	17.0	61.0	-0.3530329853437246	--
0	ISO-HYDRASTIDINE	Rhizome		92.0		--
13	JATRRORRHIZINE	Root				--
0	KILOCALORIES	Root		2900.0	-1.027344190173421	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
65	MAGNESIUM	Root	814.0	2940.0	0.2013772114780043	--
14	MANGANESE	Root	2.4	8.5	-0.44437545653348504	--
0	MECONINE	Plant				--
0	MECONINE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
39	NIACIN	Root	17.0	62.0	0.3408639915778749	--
4	PHOSPHORUS	Root	341.0	1230.0	-0.401977727255847	--
14	POTASSIUM	Root	1712.0	6180.0	-0.7028558317567325	--
0	PROTEIN	Root	31024.0	112000.0	-0.07201685308276887	--
0	RESIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
10	RETICULINE	Plant				--
15	RIBOFLAVIN	Root	0.6	2.0	-0.45399811156287	--
60	SELENIUM	Root	0.3	1.0	-0.29131634494743897	--
4	SILICON	Root	8.0	28.7	-0.21106579728908464	--
1	SODIUM	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
5	STARCH	Root	27700.0	180000.0	-0.5678127219668201	--
14	SUCROSE	Plant				--
0	SUGARS	Root	19390.0	70000.0	-0.327950642411638	--
31	THIAMIN	Root		2.6	-0.3624549785956239	--
0	THIAMINE	Root	0.7	2.6	-0.3397593870321354	--
4	TIN	Root	2.6	9.3	-0.7304757236248677	--
0	WATER	Root		723000.0	-0.30268497945950484	--
0	XANTHOPUCINE	Plant				--
77	ZINC	Root	0.4	1.6	-0.9888698445176951	--