

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Withania somnifera*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	STEARIC-ACID	Plant				--
4	SITOINDOSIDES	Root				Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
2	DULCITOL	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
47	BETA-SITOSTEROL	Leaf				--
3	WITHASOMNINE	Root				--
2	CYSTINE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
47	BETA-SITOSTEROL	Tissue Culture				--
3	WITHANOLIDE-E	Shoot				--
3	VISAMINE	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	WITHASOMNINE	Plant				--
13	CYSTEINE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	SITOINDOSIDE-X	Root				--
3	WITHANOLIDE-E	Leaf				--
1	TROPINE	Root				--
5	4-BETA-HYDROXYWITHANOLIDE	Leaf				--
20	CHOLINE	Root				--
87	RUTIN	Leaf				--
5	WITHANOLIDE-D	Shoot				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	WITHAFERIN-A	Root				--
77	CHLOROGENIC-ACID	Leaf				--
1	4-O-CAFFEYLQUINIC-ACID	Leaf				--
5	WITHANOLIDE-D	Plant				--
5	STARCH	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	WITHAFERIN-A	Shoot				--
1	QUINIC-ACID	Leaf				--
5	WITHANOLIDE-D	Root				--
2	SOMNIFERINE	Root				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	WITHAFERIN-A	Plant				--
176	QUERCETIN	Leaf				--
12	STIGMASTEROL	Plant				--
44	SCOPOLETIN	Plant				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
7	WITHAFERIN	Leaf				--
21	NICOTINE	Root				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	WITHACNISTIN	Leaf				--
27	LINOLEIC-ACID	Plant				--
4	SITOINDOSIDE-IX	Root				--
5	ISOPELLETIERINE	Root				--
12	STIGMASTEROL	Tissue Culture				--
2	CAMPESTEROL	Tissue Culture				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	N-HENTRIACONTANE	Plant				--
1	HYDROXYPROLINE	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
5	DAUCOSTEROL	Root		2.0	-0.5409061526656509	--
47	BETA-SITOSTEROL	Root	4.0	200.0	-0.27101953487278646	--
14	SUCROSE	Root		1000.0	-1.2514078712678915	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	WITHANOLIDE-D	Leaf	500.0	3000.0		--
15	WITHAFERIN-A	Leaf	400.0	8600.0		--
27	LINOLEIC-ACID	Seed Oil		600000.0	0.8214578016140522	--