

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in Smilax spp**

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	25S-SPIROSTAN-6-BETA-OL-3-O-BETA-D-GLUCOPYRANOSYL-(1->4)-(ALPHA-L-ARABINOPYRANOSYL-(1->6))-BETA-D-GLUCOPYRANOSIDE	Root	--	--		Bernardo, R. R., Pinto, A. V., Parente, J. P. 1996. Steroidal Saponins from Smilax officinalis. Phytochemistry, 43(2): 465-469.
5	ALUMINUM	Root	157	745	0.08725464107028212	
112	ASCORBIC-ACID	Root	--	--		
0	ASH	Root	13230	63000	-0.13017850342957962	
53	BETA-CAROTENE	Root	8	36	-0.20622961094825273	
47	BETA-SITOSTEROL	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
28	CALCIUM	Root	626	2980	-0.4843768813953443	
0	CETYL-ALCOHOL	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
24	CHROMIUM	Root	0.4	1.7	-0.2211082365074478	
2	COBALT	Root	3	14.2	-0.2369968765286966	
0	DEGLUCOPARILLIN	Root	--	--		
0	DESGLUCORHAMNOPARILLIN	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	EO	Root	--	300	-0.640661544409053	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	EPSILON-SITOSTEROL	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FAT	Root	4410	21000	-0.06268933504030412	
0	FIBER(CRUDE)	Root	--	100000	-0.33350960238524374	
0	FIBER(DIETARY)	Root	--	380000	-0.20125931618604387	
0	FURASTANOL-GLYCOSIDES	Root	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	GLUCOSE	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	GLYCYPHYLLIN	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
6	IRON	Root	19	91	-0.30944927073913947	
65	MAGNESIUM	Root	351	1670	-0.4743957334649669	
14	MANGANESE	Root	1.2	5.7	-0.47781006288724015	
0	NEOTIGOGENIN-3-O-BETA-D-GLUCOPYRANOSYL-(1->4)-(ALPHA-L-AMBINOPYRANOSYL-(1->6)-BETA-D-GLUCOPYRANOSIDE	Root	--	--		Bernardo, R. R., Pinto, A. V., Parente, J. P. 1996. Steroidal Saponins from Smilax officinalis. Phytochemistry, 43(2): 465-469.
39	NIACIN	Root	--	--		
0	PARIGENIN	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

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6	PARILLIN	Root	--	--		
4	PHOSPHORUS	Root	372	1770	-0.3070946978802241	
0	POLLINASTANOL	Root	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
14	POTASSIUM	Root	2001	9530	-0.45755733882532496	
0	PROTEIN	Root	14700	70000	-0.5436563102616278	
0	RESIN	Root	--	25000	-0.7518713706282815	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	RIBOFLAVIN	Root	--	--		
0	SAPONIN	Root	5000	20000	0.19337292176916132	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SARASAPONIN	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	SARSAPARILLOSIDE	Root	--	--		
1	SARSAPONIN	Root	--	--		
0	SARSASAPOGENIN	Root	--	--		
0	SARSASAPOGENIN-3-O-BETA-D-GLUCOPYRANOSYL-(1->4)-(ALPHA-L-AMBINOPYRANOSYL-(1->6))-BETA-D-GLUCOPYRANOSIDE	Root	--	--		Bernardo, R. R., Pinto, A. V., Parente, J. P. 1996. Steroidal Saponins from Smilax officinalis. Phytochemistry, 43(2): 465-469.
60	SELENIUM	Root	0.7	3.1	-0.14192942759211227	
4	SILICON	Root	2	8.8	-0.30248027033110936	
0	SITOSTEROL-D-GLUCOSIDE	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	SMILAGENIN	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SMILASAPONIN	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SODIUM	Root	4.4	21	-0.5029945719162524	
0	SPIROSTANOLS	Root	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
5	STARCH	Root	52500	250000	-0.2749885194147701	
0	STEROID SAPONINS	Root	5000	30000		
12	STIGMASTEROL	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	THIAMINE	Root	0.2	0.9	-0.6854497359326622	
4	TIN	Root	4	18	0.15387660396896238	
0	WATER	Root	--	790000	0.13584730298158998	
77	ZINC	Root	0.5	2.6	-0.9450721489819633	