

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Coix lacryma-jobi*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2,4-DIHYDROXY-7-METHOXY-2H-1,4-BENZOAXINE-3-ONE	Sprout Seedling	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
0	2-(2,4-DIHYDROXY-7-METHOXY...BETA-D-GLUCOPYRANOSIDE	Sprout Seedling	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-(2-HYDROXY-7-METHOXY-1,4(2H)...GLUCOPYRANOSIDE	Sprout Seedling	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	2-HYDROXY-7-METHOXY-1,4(2H)-BENZOXAZIN-3-ONE	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	2-O-GLUCOSYL-7-METHOXY-1,4(2H)-BENZOXAZIN-3-ONE	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
2	4-KETOPINORESINOL	Pericarp	--	--		
0	6-METHOXY-BENZOXAZOLON	Plant	--	--		
28	ADENOSINE	Seed	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	ALPHA-MONOLINOLEIN	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
112	ASCORBIC-ACID	Seed	--	--	-0.33845664486186666	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	BENZOXAZINIDS	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
53	BETA-CAROTENE	Seed	--	--	-0.42930857989782434	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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	Seed	50	282	-0.709731191035536	
2	CAMPESTEROL	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	CARBOHYDRATES	Plant	--	798000	0.8087299351363579	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CARBOHYDRATES	Seed	653000	824000	1.194636040512912	
0	CEREBROSIDES	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-8-OCTADECENOIC-ACID	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	COICIN	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
1	COIXAN-A	Seed	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	COIXAN-B	Seed	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	COIXAN-C	Seed	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	COIXENOLIDE	Seed	--	2500		
4	COIXOL	Root	--	1600		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	COIXOL	Stem	--	1300		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	CONIFERYL-ALCOHOL	Pericarp	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Seed	--	5	-0.8902206512542384	Suziki, A., Morimoto, I., and Okitzu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
0	DIGALACTOSYL	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
0	FAT	Plant	--	28000	-0.34659641340595326	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	FAT	Seed	31000	79000	-0.9817701137563937	
61	FERULIC-ACID	Pericarp	--	--		
0	FERULOYL-CAMPESTEROL	Seed	--	--		
0	FERULOYL-STIGMASTEROL	Seed	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
15	FIBER	Seed	2900	170000	0.27811243148773734	
15	FIBER	Plant	--	279000	0.41545981993088654	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

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0	GERMANIUM	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
6	IRON	Seed	29	68	-0.3846821236271991	
0	KILOCALORIES	Seed	1480	4280	-0.45298053633039254	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
27	LINOLEIC-ACID	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	LYSOPHOSPHATIDYLCHOLINE	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
65	MAGNESIUM	Seed	--	1490	-0.5752971021114678	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
14	MANGANESE	Seed	--	26	-0.3428264091146499	Suziki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
2	MAYTENOLIDE	Pericarp	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	MONOGALACTOSYL-DIGLYCERIDES	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
6	MYRISTIC-ACID	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
39	NIACIN	Seed	13	48	0.1530815697418368	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
13	PALMITIC-ACID	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	PHOSPHATIDYL-CHOLINE	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
0	PHOSPHATIDYL-ETHANOLAMINE	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
0	PHOSPHATIDYL-INOSITOL	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.

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0	PHOSPHATIDYL-SERINE	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
0	PHOSPHOLIPIDS	Seed	--	18300	0.6216419226853153	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	PHOSPHORUS	Seed	500	5000	-0.09337683501314556	
0	PHYTIN	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
14	POTASSIUM	Seed	--	2360	-0.897907987680729	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
0	PROTEIN	Plant	--	85000	-0.7249690892271701	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Seed	81000	262000	0.2508885855702684	
15	RIBOFLAVIN	Seed	0.6	2.1	-0.5458370829209624	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	SAPONIN	Seed	--	--		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	Seed	--	4	-0.7093667361710226	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
5	STARCH	Seed	500000	790000	1.9430732029759523	
8	STEARIC-ACID	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	STERYL-GLYCOSIDES	Seed	--	--		Hutchings, A, Scott, AH, Lewis, G, and Cunningham, A. 1996. Zulu Medicinal Plants. An inventory. University of Natal Press, Pietermaritzburg. 450 pp.
0	STIGMASTANOL	Plant	--	--		
12	STIGMASTEROL	Seed	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
1	SYRINGARESINOL	Pericarp	--	--		
6	SYRINGIC-ACID	Pericarp	--	--		
31	THIAMIN	Seed	2.8	3.2	-0.8074004182040649	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	WATER	Seed	89000	113000	-0.43979524613550786	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Seed	--	20	-0.7135039207289134	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.