

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in Citrullus lanatus

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(+)-VALINE	Plant	--	--		
0	2,4-METHYLENE-CHOLESTEROL	Seed	--	--		
0	2-(CIS-2-NONENYL-OXY)-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-(CIS-CIS-3,6-NONADIENYL-OXY)-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-(ON-CIS-3-ENYL-OXY)-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-BENZYL-OXY-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-ETHOXY-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-HEXYL-OXY-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-HYDROXY-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-NONYL-OXY-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-OCTYL-OXY-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-PENTYL-FURAN	Fruit Juice	--	--		
0	2-PENTYL-OXY-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	2-PHENETHYL-OXY-5-PENTYL-TETRAHYDROFURAN	Fruit Juice	--	--		
0	22-DIHYDRO-SPINASTEROL	Seed	--	--		
0	22-DIHYDROBRASSICASTEROL	Seed	--	--		
0	24-BETA-ETHYL-25(27)-DEHYDROLATHOSTEROL	Seed	--	--		
0	24-BETA-ETHYL-25-(27)-DEHYDROLOPHENOL	Seed	--	3		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	24-BETA-ETHYL-LOPHENOL	Seed	--	--		
0	24-METHYL-LATHOSTEROL	Seed	--	--		
0	25(27)-DEHYDRO-CHONDRILLASTEROL	Seed	--	--		
0	25(27)-DEHYDRO-FUNGISTEROL	Seed	--	--		
0	25(27)-DEHYDRO-PORIFERASTEROL	Seed	--	--		
0	3-METHYL-BUTAN-1-OL	Fruit Juice	--	--		
0	4-OXO-NONAN-1-AL	Fruit Juice	--	--		
0	6-METHYL-HEPT-5-EN-2-ONE	Fruit Juice	--	--		
0	7-DEHYDRO-AVENASTEROL	Seed Oil	--	--		
6	ACETOPHENONE	Fruit Juice	--	--		
3	ALANINE	Fruit	2000	2000	-0.6710955118570772	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
3	ALANINE	Seed	15000	15000	1.029690020598315	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
12	ALLANTOIN	Seed	--	450	1	
0	ALPHA-AMINO-BETA-(1-IMIDAZOYL)-PROPIONIC-ACID	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ALPHA-SPINASTEROL	Seed Oil	--	--		
0	AMINO-ACIDS	Seed	--	--		
14	ARGININE	Fruit	6949	6949	0.7039836472964519	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
14	ARGININE	Seed	46600	46600	0.929850467927722	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
112	ASCORBIC-ACID	Fruit	--	94	-0.27864436815713767	
0	ASH	Seed	62000	62000	0.4246927171829582	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ASH	Fruit	30600	30600	-0.674930125714854	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ASPARTIC-ACID	Fruit	4594	4594	-0.7310504308235704	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
3	ASPARTIC-ACID	Seed	25500	25500	0.2584277890834008	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	AVENASTEROL	Seed	--	--		
24	BENZALDEHYDE	Fruit Juice	--	--		
9	BENZYL-ALCOHOL	Fruit Juice	--	--		
53	BETA-CAROTENE	Fruit	2	48	-0.05801749395743059	
13	BETA-IONONE	Fruit	--	--		
13	BETA-IONONE	Fruit Juice	--	--		
0	BETA-IONONE-EPOXIDE	Fruit Juice	--	--		
47	BETA-SITOSTEROL	Fruit	--	10	-0.7811022213118411	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	BORON	Fruit	1	4	-0.7233703732714263	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
3	BRYONOLIC-ACID	Tissue Culture	--	--		
3	BRYONOLIC-ACID	Plant	--	--		
0	BUTAN-1-OL	Fruit Juice	--	--		
0	BUTAN-4-OLIDE	Fruit Juice	--	--		
102	CAFFEIC-ACID	Seed	--	--		
28	CALCIUM	Fruit	100	3400	-0.10529282176440947	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
28	CALCIUM	Seed	1294	1300	-0.5227673999999125	
2	CAMPESTEROL	Seed Oil	--	--		
2	CAMPESTEROL	Seed	--	--		
2	CAMPESTEROL	Fruit	--	--		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	CAPRIC-ACID	Seed	2200	4840	-0.30943296733156234	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
5	CAPRYLIC-ACID	Seed	400	880	-0.5843771702554066	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	CARBOHYDRATES	Fruit	3800	859000	0.4070437865584783	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CARBOHYDRATES	Seed	44000	48000	-1.8893447311177833	
0	CINEOL	Seed	--	--		
6	CINNAMYL-ALCOHOL	Fruit Juice	--	--		
0	CIS,CIS-3,6-NONADIEN-1-OL	Fruit	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
0	CITRULLIC-ACID	Plant	--	--		
5	CITRULLINE	Fruit	1627	3705	1.7302359496972917	
0	CITRULLOL	Fruit	--	--		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
0	CLEROSTEROL	Seed	--	--		
0	CODISTEROL	Seed	--	--		
12	COPPER	Fruit	4	4	-0.6863742487163819	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	CUCURBITACIN-B	Fruit	--	--		
6	CUCURBITACIN-E	Fruit	--	--		
6	CUCURBITACIN-E	Leaf	--	--		
0	CUCURBITACIN-E-GLUCOSIDE	Fruit	--	--		
0	CUCURBITACIN-E-GLYCOSIDE	Fruit	--	--		
0	CUCURBITACIN-II	Fruit	--	--		
1	CUCURBITOCITRIN	Seed	--	--		
3	CYCLOEUCALENOL	Seed	--	--		
13	CYSTEINE	Seed	5742	5742	0.19782577765447393	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	CYSTEINE	Fruit	236	236	-1	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	DAPHNETIN	Seed	--	--		
0	DEC-TRANS-2-ENAL	Fruit	--	--		
0	DECA-TRANS-2,TRANS-4-DIEN-1-AL	Fruit Juice	--	--		
0	DECA-TRANS-2-CIS-4-DIEN-1-AL	Fruit Juice	--	--		
0	DODECAN-1-OL	Fruit Juice	--	--		
24	ETHANOL	Fruit Juice	--	--		
0	FARNESYL-ACETONE	Fruit Juice	--	--		
0	FAT	Fruit	200	89000	0.03852275132214275	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FAT	Seed	200000	571000	1.6097698742458455	
0	FATTY-ACIDS	Seed	--	--		
15	FIBER	Fruit	35300	257000	1.088249102567049	
15	FIBER	Seed	67000	316000	1.430953367088329	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FOLACIN	Fruit	--	0.259	-0.7306474642603418	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	FOLIC-ACID	Fruit	--	0.259	-0.9781598366401939	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FRAXIDIN	Seed	--	--		
13	GERANIAL	Fruit	--	--		
13	GERANIAL	Fruit Juice	--	--		
35	GERANIOL	Fruit Juice	--	--		
2	GERANYL-ACETONE	Fruit Juice	--	--		
0	GLOBULIN	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
8	GLUTAMIC-ACID	Seed	53000	53000	0.4761995241133043	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	GLUTAMIC-ACID	Fruit	7420	7420	-0.45273980737780517	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GLUTELIN	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
12	GLYCINE	Fruit	1178	1178	-0.9386946705890442	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	GRAMISTEROL	Seed	--	--		
0	HENTRIACONTANE	Fruit	--	--		
0	HEPT-TRANS-2-EN-1-AL	Fruit Juice	--	--		
0	HEPT-TRANS-2-ENAL	Fruit	--	--		
0	HEPTA-TRANS-2-CIS-4-DIEN-1-AL	Fruit Juice	--	--		
0	HEPTA-TRANS-2-TRANS-4-DIEN-1-AL	Fruit Juice	--	--		
0	HEPTAN-2-ONE	Fruit Juice	--	--		
0	HEX-CIS-EN-1-OL	Fruit Juice	--	--		
0	HEX-TRANS-2-EN-1-AL	Fruit Juice	--	--		
0	HEX-TRANS-2-ENAL	Fruit	--	--		
0	HEX-TRANS-3-EN-1-OL	Fruit Juice	--	--		
0	HEXAN-1-AL	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HEXAN-1-AL	Fruit Juice	--	--		
0	HEXAN-1-OL	Fruit Juice	--	--		
7	HISTIDINE	Seed	7018	7018	0.23764592476267077	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
7	HISTIDINE	Fruit	707	707	-0.7050530351595478	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	HYDROXYPROLINE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
6	IRON	Fruit	2	143	0.039754275898127606	
6	IRON	Seed	75	75	-0.35215797906396656	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	ISOFRAXIDIN	Seed	--	--		
0	ISOFUCOSTEROL	Seed	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ISOLEUCINE	Seed	12100	12100	0.20524005689676544	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
3	ISOLEUCINE	Fruit	2238	2238	-0.4204244192171918	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	KILOCALORIES	Fruit	3513	3513	-0.22410600170435108	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	KILOCALORIES	Seed	6500	6500	1.2844790550738516	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	L-(+)-ISOLEUCINE	Plant	--	--		
0	L-(-)-PHENYLALANINE	Plant	--	--		
0	L-(-)-THREONINE	Plant	--	--		
0	L-(-)-TYROSINE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	L-BETA-(PYRAZOL-1-YL)-ALANINE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	L-BETA-(PYRAZOL-1-YL)-ALANINE	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	L-GLUTAMIC-ACID	Seed	--	--		
7	LAURIC-ACID	Seed	1600	3250	-0.4831852350597927	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	LEUCINE	Fruit	2120	2120	-0.6337573482739223	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
2	LEUCINE	Seed	21100	21100	0.3846508332663674	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
27	LINOLEIC-ACID	Cotyledon	--	486700	0.16004066347331836	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
27	LINOLEIC-ACID	Seed	52000	210280	0.8838663006203578	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LUPINIC-ACID	Sprout Seedling	--	--		
15	LUTEIN	Fruit	0.14	3	-0.575590894746515	
16	LYCOPENE	Fruit	45	900	1.8766429320601818	
4	LYSINE	Fruit	7303	7303	0.8258091084664485	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	LYSINE	Seed	8932	8932	-0.4289343609472212	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
65	MAGNESIUM	Fruit	1081	1500	-0.2916047454654987	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	MANGANESE	Fruit	4	4	-0.37716201175428304	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
15	METHIONINE	Fruit	707	707	-0.30972946336439705	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
15	METHIONINE	Seed	5742	5742	0.36853071981172086	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
6	MYRISTIC-ACID	Seed	400	800	-0.2855305257263749	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	N-ACETYL-SERINE	Fruit	--	--		
0	N-HENEICOSANE	Fruit Juice	--	--		
0	N-HEXADECANE	Fruit Juice	--	--		
0	N-NONADECANE	Fruit Juice	--	--		
0	N-OCTACOSANOL	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-OCTADECANE	Fruit Juice	--	--		
0	N-PENTADECANE	Fruit Juice	--	--		
0	NEOLYCOPENE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	NERAL	Fruit Juice	--	--		
0	NEUROSPORIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
39	NIACIN	Fruit	15	27	-0.45048529250390834	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	NON-CIS-3-EN-1-AL	Fruit Juice	--	--		
0	NON-CIS-3-EN-1-OL	Fruit	--	--		
0	NON-CIS-3-EN-1-OL	Fruit Juice	--	--		
0	NON-CIS-6-EN-1-OL	Fruit Juice	--	--		
0	NON-CIS-6-EN-1-OL	Fruit	--	--		
0	NON-TRANS-2-EN-1-OL	Fruit	--	--		
0	NON-TRANS-2-EN-AL	Fruit	--	--		
0	NONA-CIS-3,6-CIS-DIEN-1-AL	Fruit Juice	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	NONA-CIS-3,CIS-6-DIEN-1-OL	Fruit	--	--		
0	NONA-CIS-3-CIS-6-DIEN-10-OL	Fruit Juice	--	--		
0	NONA-TRANS-2,CIS-6-DIEN-1-AL	Fruit Juice	--	--		
0	NONA-TRANS-2,CIS-6-DIEN-1-OL	Fruit	--	--		
0	NONA-TRANS-2-CIS-6-DIENAL	Fruit	--	--		
0	NONAN-1-AL	Fruit	--	--		
0	NONAN-1-AL	Fruit Juice	--	--		
0	NONAN-1-OL	Fruit	--	--		
0	NONAN-1-OL	Fruit Juice	--	--		
0	NONAN-2-ONE	Fruit Juice	--	--		
0	NONAN-4-OLIDE	Fruit Juice	--	--		
0	O-ACETYL-SERINE	Fruit	--	--		
0	OBTUSIFOLIOL	Seed	--	--		
0	OCT-1-EN-3-OL	Fruit Juice	--	--		
0	OCT-1-EN-3-ONE	Fruit Juice	--	--		
0	OCT-TRANS-2-EN-1-AL	Fruit Juice	--	--		
0	OCT-TRANS-2-EN-1-OL	Fruit Juice	--	--		
0	OCT-TRANS-2-ENAL	Fruit	--	--		
0	OCTAN-1-AL	Fruit Juice	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	OCTAN-1-OL	Fruit Juice	--	--		
18	OLEIC-ACID	Cotyledon	--	241000	0.9197508532724963	
18	OLEIC-ACID	Seed	71000	189000	0.5745907593403166	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	OXYSILVINE	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	PALMITIC-ACID	Seed	15200	55000	0.4352274100182752	
13	PALMITIC-ACID	Cotyledon	--	206300	-1.727557853929548	
11	PANTOTHENIC-ACID	Fruit	25	25	0.4398424963040165	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
24	PECTIN	Fruit	--	--		
0	PENT-1-EN-3-OL	Fruit Juice	--	--		
0	PENT-CIS-2-EN-1-OL	Fruit Juice	--	--		
0	PENT-TRANS-2-EN-1-AL	Fruit Juice	--	--		
0	PENTADEC-1-ENE	Fruit Juice	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PENTAN-1-AL	Fruit Juice	--	--		
0	PENTAN-1-OL	Fruit Juice	--	--		
6	PHENETHYL-ALCOHOL	Fruit Juice	--	--		
7	PHENYLALANINE	Fruit	1767	1767	-0.5405989656840343	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
7	PHENYLALANINE	Seed	16600	16600	0.6042024770392214	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	PHOSPHORUS	Fruit	1	2900	-0.09598014885507253	
4	PHOSPHORUS	Seed	8300	14600	2.443509731398302	
5	PHYLLOQUINONE	Fruit	--	0.003	-0.2325377501021479	
0	PHYSETOLIC-ACID	Plant	--	--		
0	PHYTOFLUIN	Fruit	--	--		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
0	PHYTOIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	PHYTOSTEROLS	Fruit	20	236	-0.9138748529599334	
12	PINENE	Seed	--	--		
0	POLY-CIS-LYCOPENE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
14	POTASSIUM	Fruit	13514	18000	0.0073869157433379936	
0	PRO-BETA-CAROTENE	Fruit	--	--		
0	PROLINE	Seed	11800	11800	0.09118447788174708	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PROLINE	Fruit	2827	2827	-0.3240363604117524	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	PRONEUROSPORIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROTEIN	Fruit	1000	100000	-0.12733205905952616	
0	PROTEIN	Seed	198000	600000	3.2575736283478713	
0	PROTEIN-CVTI-I	Seed	--	--		
15	RIBOFLAVIN	Seed	1	1	-0.9674166926890354	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Fruit	2	8	0.6405083179917069	
87	RUTIN	Seed	15000	16500	1.606098941923909	
1	SERINE	Fruit	1885	1885	-0.6206649689838999	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	SERINE	Seed	13700	13700	0.5990405458975957	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	SODIUM	Fruit	135	236	-0.1615711715033237	
0	SPINASTEROL	Seed	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	STEARIC-ACID	Cotyledon	--	59100	-0.5870403836004546	
8	STEARIC-ACID	Seed	12200	66000	0.8665858434484109	
0	STIGMAST-7-EN-3BETA-OL-BETA-D-GLUCOPYRANOSIDE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	STIGMASTA-7,25-DIEN-3-BETA-OL	Seed Oil	--	--		
0	STIGMASTA-7-22-25-TRIEN-3-BETA-OL	Seed Oil	--	--		
12	STIGMASTEROL	Seed Oil	--	--		
12	STIGMASTEROL	Seed	--	--		
31	THIAMIN	Fruit	4	9	0.46943256721187576	
4	THREONINE	Fruit	3180	3180	0.06746781297128561	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	THREONINE	Seed	15300	15300	1.6022227898473942	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
4	TRYPTAMINE	Fruit	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
29	TRYPTOPHAN	Fruit	825	825	-0.03571324596706864	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	TYROSINE	Seed	10200	10200	0.5695893587686409	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	TYROSINE	Fruit	1413	1413	-0.4167463140410469	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	UNDEC-TRANS-2-ENAL	Fruit	--	--		
0	UREASE	Seed	--	10000		
3	VALINE	Fruit	1885	1885	-0.5298493040680791	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	VALINE	Seed	10200	10200	-0.22310841653412938	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	WATER	Seed	71000	81000	-0.5625925943807273	
0	WATER	Fruit	915100	957000	0.8105901474331062	
77	ZINC	Fruit	8	8	-0.6709616277275268	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.