

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
(+)-ASARININ	0	Seed Oil	not available	not available	not available	Duke, 1992 *
(+)-EPISESAMIN	0	Seed	not available	1.5	not available	Duke, 1992 *
(+)-EPISESAMINONE	0	Seed	not available	0.8	not available	Duke, 1992 *
(+)-KOBUSIN	0	Seed	not available	1.1	not available	Duke, 1992 *
(+)-PINORESINOL	1	Seed	not available	18.0	not available	Duke, 1992 *
(+)-PINORESINOL-4'-O-BETA-D-GLUCOPYRANOSYL(1,2)-O-(BETA-D-GLUCOPYRANOSYL(1,6)-BETA-D-GLUCOPYRANOSIDE	0	Seed	not available	52.0	not available	Duke, 1992 *
(+)-PIPERITOL	0	Seed	not available	1.5	not available	Duke, 1992 *
(+)-SESAMIN	0	Root	not available	not available	not available	Duke, 1992 *
(+)-SESAMIN	0	Seed	not available	419.0	not available	Duke, 1992 *
(+)-SESAMIN	0	Seed Oil	1700.0	25000.0	not available	Duke, 1992 *
(+)-SESAMOLIN	0	Seed	not available	218.0	not available	Duke, 1992 *
(+)-SESAMOLINOL	0	Seed	not available	2.0	not available	Duke, 1992 *
2-(4-METHYL-PENT-3-ENYL)-ANTHRAQUINONE	0	Tissue Culture	not available	29.0	not available	Duke, 1992 *
2-(4-METHYL-PENTA-1,3-DIENYL)-ANTHRAQUINONE	0	Tissue Culture	not available	18.0	not available	Duke, 1992 *
2-ACETYL-3-METHYL-FURAN	0	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2-ACETYL-FURAN	0	Seed	not available	not available	not available	Duke, 1992 *
2-ACETYL-PYRROLE	0	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2-HEPTANAL	0	Seed	not available	not available	not available	Duke, 1992 *
2-ISOPROPENYL-NAPHTHAZARIN-2,3-EPOXIDE	0	Tissue Culture	not available	550.0	not available	Duke, 1992 *
2-METHOXY-4-ETHYLPHENOL	0	Seed	not available	not available	not available	Jim Duke's personal files.
2-METHOXY-4-VINYL-PHENOL	2	Seed	not available	not available	not available	Duke, 1992 *
24-METHYLENE-CYCLOARTANOL	5	Seed Oil	not available	not available	not available	Duke, 1992 *
24-METHYLENE-CYCLOARTENOL	0	Seed	not available	not available	not available	Duke, 1992 *
24-METHYLENE-CYCLOARTENOL	0	Seed Oil	not available	not available	not available	Duke, 1992 *
3-BETA-(CIS-P-COUMAROYL-OXY)-2-ALPHA-23-DIHYDROXYURS-12-EN-28-OIC-ACID	0	Tissue Culture	not available	not available	not available	Duke, 1992 *
3-BETA-(TRANS-P-COUMAROYL-OXY)-2-ALPHA-23-DIHYDROXYURS-12-EN-28-OIC-ACID	0	Tissue Culture	not available	not available	not available	Duke, 1992 *
5-DEHYDRO-AVENASTEROL	0	Seed Oil	not available	not available	not available	Duke, 1992 *
5-METHYLFURAN	0	Seed	not available	not available	not available	Duke, 1992 *
7-DEHYDRO-AVENASTEROL	0	Seed Oil	not available	not available	not available	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<a href="#">ACETYL-PYRAZINE</a>	0	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">AGMATINE</a>	0	Leaf	not available	not available	not available	List, P.H. and Horhammer, L. Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<a href="#">AGMATINE</a>	0	Seed	not available	not available	not available	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<a href="#">ALANINE</a>	3	Seed	5510.0	14802.0	0.99	Duke, 1992 *
<a href="#">ALPHA-AMYRIN</a>	10	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">ALPHA-AMYRIN</a>	10	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">ALPHA-FORMYL-PYRROLE</a>	0	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">ALPHA-GLOBULIN</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">ALPHA-LINOLENIC-ACID</a>	15	Seed	3760.0	3945.0	-0.25	USDA's Ag Handbook 8 and sequelae)
<a href="#">ALPHA-TOCOPHEROL</a>	32	Seed	22.0	24.0	-0.65	USDA's Ag Handbook 8 and sequelae)
<a href="#">ALPHA-TOCOPHEROL</a>	32	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">ARACHIDIC-ACID</a>	0	Seed	1312.0	6910.0	0.02	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">ARACHIDONIC-ACID</a>	12	Seed Oil	not available	10000.0	-1.00	Duke, 1992 *
<a href="#">ARGININE</a>	14	Seed	15800.0	39000.0	0.61	Duke, 1992 *
<a href="#">ASARININ</a>	6	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">ASH</a>	0	Leaf	not available	124000.0	0.09	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<a href="#">ASH</a>	0	Seed	42270.0	65000.0	0.51	Duke, 1992 *
<a href="#">ASPARTIC-ACID</a>	3	Seed	9890.0	23795.0	0.11	Duke, 1992 *
<a href="#">AVENASTEROL</a>	0	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">BEHENIC-ACID</a>	1	Seed Oil	not available	5000.0	-0.99	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
BETA-AMYRIN	9	Seed Oil	not available	not available	not available	Duke, 1992 *
BETA-CAROTENE	53	Seed	not available	not available	not available	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
BETA-SITOSTEROL	47	Seed	4000.0	4430.0	1.07	Duke, 1992 *
BETA-SITOSTEROL	47	Seed Oil	not available	not available	not available	Duke, 1992 *
BETA-TOCOPHEROL	0	Seed Oil	not available	not available	not available	Duke, 1992 *
BIOTIN	4	Seed	not available	0.1	-0.53	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
BORON	4	Seed	4.0	13.0	-0.53	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).
CAFFEIC-ACID	102	Fruit	not available	not available	not available	Duke, 1992 *
CAFFEIC-ACID	102	Leaf	not available	not available	not available	Duke, 1992 *
CALCIUM	28	Seed	800.0	12638.0	1.56	Duke, 1992 *
CAMPESTEROL	2	Seed	not available	910.0	1.26	Duke, 1992 *
CAMPESTEROL	2	Seed Oil	not available	not available	not available	Duke, 1992 *
CAMPNEOSIDE-I	0	Plant	not available	331.0	not available	Duke, 1992 *
CAMPNEOSIDE-II	0	Plant	not available	50.0	not available	Duke, 1992 *
CARBOHYDRATE	0	Leaf	not available	593000.0	-0.70	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
CARBOHYDRATE	0	Seed	93900.0	245990.0	-1.15	Duke, 1992 *
CARBOHYDRATES	0	Leaf	not available	593000.0	-0.15	Duke, 1992 *
CARBOHYDRATES	0	Seed	93900.0	245990.0	-1.10	Duke, 1992 *
CEPHALIN	1	Seed	133168.0	233856.0	1.41	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
CHLOROGENIC-ACID	77	Leaf	not available	not available	not available	Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp.
CHOLESTEROL	1	Seed Oil	not available	not available	not available	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<a href="#">CHOLINE</a>	20	Seed	not available	1320.0	-0.33	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">CHROMIUM</a>	24	Seed	not available	1.4	-0.48	Duke, 1992 *
<a href="#">CISTANOSIDE-F</a>	0	Plant	not available	217.0	not available	Duke, 1992 *
<a href="#">CITROSTADIENOL</a>	1	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">CITRULLIN</a>	0	Leaf	not available	not available	not available	Duke, 1992 *
<a href="#">COBALT</a>	2	Seed	not available	0.3	-0.19	Duke, 1992 *
<a href="#">COPPER</a>	12	Plant	14.0	56.0	4.65	Duke, 1992 *
<a href="#">CYCLOARTENOL</a>	7	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">CYCLOARTENOL</a>	7	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">CYCLOEUCALENOL</a>	3	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">CYSTINE</a>	2	Seed	2380.0	5494.0	1.63	Duke, 1992 *
<a href="#">DECAFFEOYL-VERBASCOSIDE</a>	0	Plant	not available	201.0	not available	Duke, 1992 *
<a href="#">DELTA-AVENASTEROL</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">DELTA-TOCOPHEROL</a>	4	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">DIACETYL</a>	2	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">EPIASARININ</a>	0	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">EPISESAMIN</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">EPISESAMINOL</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">ESCULENTIC-ACID</a>	0	Tissue Culture	not available	not available	not available	Duke, 1992 *
<a href="#">FAT</a>	0	Leaf	not available	48000.0	-0.17	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<a href="#">FAT</a>	0	Seed	328000.0	576321.0	1.64	Duke, 1992 *
<a href="#">FATTY-ACIDS</a>	0	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">FERULIC-ACID</a>	61	Fruit	not available	not available	not available	Duke, 1992 *
<a href="#">FERULIC-ACID</a>	61	Leaf	not available	not available	not available	Duke, 1992 *
<a href="#">FIBER</a>	15	Leaf	not available	166000.0	0.06	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<a href="#">FIBER</a>	15	Seed	27100.0	67000.0	-0.54	Duke, 1992 *
<a href="#">FOLACIN</a>	15	Seed	1.0	1.0	-0.66	USDA's Ag Handbook 8 and sequelae)

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<a href="#">FOLIC-ACID</a>	23	Seed	not available	0.2	-0.36	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">FURFURLY-ALCOHOL</a>	1	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">GADOLEIC-ACID</a>	0	Seed	700.0	734.0	-0.62	USDA's Ag Handbook 8 and sequelae)
<a href="#">GADOLEIC-ACID</a>	0	Seed Oil	not available	5000.0	not available	Duke, 1992 *
<a href="#">GALACTOSE</a>	1	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">GAMMA-TOCOPHEROL</a>	14	Seed Oil	60.0	70.0	not available	Duke, 1992 *
<a href="#">GENTISIC-ACID</a>	8	Leaf	not available	not available	not available	Duke, 1992 *
<a href="#">GLUCOSE</a>	7	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">GLUTAMIC-ACID</a>	8	Seed	24670.0	51927.0	0.43	Duke, 1992 *
<a href="#">GLYCINE</a>	12	Seed	5890.0	19918.0	1.30	Duke, 1992 *
<a href="#">GLYOXAL</a>	0	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">GRAMISTEROL</a>	0	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">GUAIACOL</a>	18	Seed	not available	not available	not available	Jim Duke's personal files.
<a href="#">HEPTANAL</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">HEXADECENOIC-ACID</a>	0	Seed	0.0	2880.0	-0.03	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">HEXANAL</a>	5	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">HEXENAL</a>	4	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">HISTIDINE</a>	7	Seed	3050.0	7112.0	0.26	Duke, 1992 *
<a href="#">INOSITOL</a>	8	Seed	not available	740.0	-0.99	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">IODINE</a>	12	Seed	not available	0.0	-0.28	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
IRON	6	Seed	20.0	169.0	0.08	Duke, 1992 *
ISOLEUCINE	3	Seed	7630.0	13541.0	0.39	USDA's Ag Handbook 8 and sequelae)
KILOCALORIES	0	Plant	not available	6700.0	3.13	Duke, 1992 *
L-CITRULLINE	0	Leaf	not available	not available	not available	Duke, 1992 *
LECITHIN	20	Seed	58.0	395.0	-0.73	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
LEUCINE	2	Seed	4430.0	22586.0	0.53	Duke, 1992 *
LIGNOCERIC-ACID	1	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
LINOLEIC-ACID	27	Seed	123656.0	278784.0	1.47	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
LINOLEIC-ACID	27	Seed Oil	not available	500000.0	0.43	Duke, 1992 *
LINOENIC-ACID	0	Seed Oil	not available	10000.0	-0.96	Duke, 1992 *
LYCHNOSE	0	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
LYSINE	4	Seed	2890.0	8729.0	-0.46	Duke, 1992 *
M-METHOXYPHENOL	0	Seed	not available	not available	not available	Jim Duke's personal files.
MAGNESIUM	65	Seed	3052.0	4082.0	0.45	USDA's Ag Handbook 8 and sequelae)
MANGANESE	14	Seed	not available	14.0	-0.49	USDA's Ag Handbook 8 and sequelae)
METHIONINE	15	Seed	3120.0	9413.0	1.32	Duke, 1992 *
METHYL-GLYOXAL	0	Seed Oil	not available	not available	not available	Duke, 1992 *
MYRISTIC-ACID	6	Seed	328.0	1728.0	-0.27	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
MYRISTIC-ACID	6	Seed Oil	not available	not available	not available	Duke, 1992 *
N-CARBAMYLPUTRESCINE	0	Leaf	not available	not available	not available	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
NEPETIN	4	Leaf	not available	not available	not available	Duke, 1992 *
NIACIN	39	Seed	36.0	57.0	0.42	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<a href="#">NICKEL</a>	3	Seed	not available	1.2	-0.68	Duke, 1992 *
<a href="#">NONANAL</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">O-COUMARIC-ACID</a>	4	Fruit	not available	not available	not available	Duke, 1992 *
<a href="#">O-COUMARIC-ACID</a>	4	Leaf	not available	not available	not available	Duke, 1992 *
<a href="#">OBTUSIFOLIOL</a>	0	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">OCTANAL</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">OLEIC-ACID</a>	18	Seed	114800.0	284544.0	1.36	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">OLEIC-ACID</a>	18	Seed Oil	not available	500000.0	0.93	Duke, 1992 *
<a href="#">OXALIC-ACID</a>	9	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">P-COUMARIC-ACID</a>	25	Fruit	not available	not available	not available	Duke, 1992 *
<a href="#">P-COUMARIC-ACID</a>	25	Leaf	not available	not available	not available	Duke, 1992 *
<a href="#">P-METHOXY-PHENOL</a>	1	Seed	not available	not available	not available	Jim Duke's personal files.
<a href="#">PABA</a>	10	Seed	not available	0.7	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">PALMITIC-ACID</a>	13	Seed	25584.0	54144.0	0.42	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">PALMITIC-ACID</a>	13	Seed Oil	not available	120000.0	-0.41	Duke, 1992 *
<a href="#">PALMITOLEIC-ACID</a>	2	Seed	1490.0	1563.0	-0.26	USDA's Ag Handbook 8 and sequelae)
<a href="#">PALMITOLEIC-ACID</a>	2	Seed Oil	not available	5000.0	1.41	Duke, 1992 *
<a href="#">PANTOTHENIC-ACID</a>	11	Seed	0.5	10.0	-0.71	Duke, 1992 *
<a href="#">PEDALIN</a>	0	Leaf	not available	not available	not available	Chemical Constituents of Oriental Herbs (3 diff. books)
<a href="#">PEDALIN</a>	0	Seed	not available	5000.0	not available	Duke, 1992 *
<a href="#">PEDALIN</a>	0	Leaf	not available	3000.0	not available	Duke, 1992 *
<a href="#">PENTANAL</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">PHENOL</a>	26	Seed	not available	not available	not available	Jim Duke's personal files.
<a href="#">PHENYLALANINE</a>	7	Seed	5710.0	9863.0	-0.20	Duke, 1992 *
<a href="#">PHOSPHOLIPIDS</a>	0	Seed	111.0	760.0	-0.88	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

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<a href="#">PHOSPHORUS</a>	4	Leaf	not available	14000.0	1.66	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<a href="#">PHOSPHORUS</a>	4	Seed	5000.0	8898.0	0.94	Duke, 1992 *
<a href="#">PHYTATE</a>	0	Seed	16160.0	17240.0	0.61	Duke, 1992 *
<a href="#">PHYTOSTEROLS</a>	2	Seed	7140.0	7490.0	1.41	Duke, 1992 *
<a href="#">PINORESINOL</a>	2	Seed	not available	163.0	not available	Duke, 1992 *
<a href="#">PINORESINOL-4'-O-BETA-D-GLUCOPYRANOSYL(1,2)-BETA-D-GLUCOPYRANOSIDE</a>	0	Seed	not available	42.0	not available	Duke, 1992 *
<a href="#">PINORESINOL-4'-O-BETA-D-GLUCOPYRANOSYL(1,6)-BETA-D-GLUCOPYRANOSIDE</a>	0	Seed	not available	21.0	not available	Duke, 1992 *
<a href="#">PINORESINOL-GLYCOSIDE</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">PLANETOSE</a>	0	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">POTASSIUM</a>	14	Seed	3489.0	7664.0	-0.43	Duke, 1992 *
<a href="#">PROLINE</a>	0	Seed	8100.0	14277.0	0.58	Duke, 1992 *
<a href="#">PROTEIN</a>	0	Leaf	not available	234000.0	0.22	Duke, 1992 *
<a href="#">PROTEIN</a>	0	Seed	141000.0	295000.0	0.54	Duke, 1992 *
<a href="#">PROTOPHLOMERIC ACID</a>	43	Fruit	not available	not available	not available	Duke, 1992 *
<a href="#">PROTOPHLOMERIC ACID</a>	43	Leaf	not available	not available	not available	Duke, 1992 *
<a href="#">PUTRESCINE</a>	0	Leaf	not available	not available	not available	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<a href="#">PYRIDOXINE</a>	43	Seed	1.0	8.0	0.49	USDA's Ag Handbook 8 and sequelae)
<a href="#">RAFFINOSE</a>	1	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">RIBOFLAVIN</a>	15	Leaf	not available	21.0	-0.08	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<a href="#">RIBOFLAVIN</a>	15	Seed	0.6	3.0	-0.20	Duke, 1992 *
<a href="#">SALICYLATES</a>	7	Seed	2.0	4.0	-0.32	Duke, 1992 *
<a href="#">SAPONINS</a>	5	Seed	not available	3000.0	-0.46	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press, Boca Raton, FL. 233 pp.)
<a href="#">SERINE</a>	1	Seed	6150.0	13751.0	0.61	Duke, 1992 *
<a href="#">SESAMIN</a>	15	Seed	100.0	1000.0	not available	Duke, 1992 *
<a href="#">SESAMIN</a>	15	Seed Oil	not available	11000.0	not available	Duke, 1992 *
<a href="#">SESAMIN</a>	15	Sprout Seedling	not available	not available	not available	Duke, 1992 *
<a href="#">SESAMINOL</a>	2	Plant	not available	not available	not available	J.S. Glasby Dict. Pls Containing 2ndary Metabolite. 1991.
<a href="#">SESAMINOL</a>	2	Seed	not available	84.0	not available	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<a href="#">SESAMINOL-2'-O-BETA-D-GLUCOPYRANOSIDE</a>	0	Seed	not available	111.0	not available	Duke, 1992 *
<a href="#">SESAMINOL-2'-O-BETA-D-GLUCOPYRANOSYL(1,2)-O-BETA-D-GLUCOPYRANOSIDE</a>	0	Seed	not available	1423.0	not available	Duke, 1992 *
<a href="#">SESAMINOL-2'-O-BETA-D-GLUCOPYRANOSYL(1,2)-O-BETA-D-GLUCOPYRANOSYL(1,6)-BETA-D-GLUCOPYRANOSIDE</a>	0	Seed	not available	238.0	not available	Duke, 1992 *
<a href="#">SESAMINOL-DIGLUCOSIDE</a>	0	Sprout Seedling	not available	not available	not available	Duke, 1992 *
<a href="#">SESAMOL</a>	6	Seed	10.0	1000.0	not available	Duke, 1992 *
<a href="#">SESAMOL</a>	6	Seed Oil	not available	1.5	not available	Duke, 1992 *
<a href="#">SESAMOLIN</a>	3	Seed	100.0	3800.0	not available	Duke, 1992 *
<a href="#">SESAMOLIN</a>	3	Seed Oil	1500.0	6000.0	not available	Duke, 1992 *
<a href="#">SESAMOLIN</a>	3	Sprout Seedling	not available	not available	not available	Duke, 1992 *
<a href="#">SESAMOLINOL</a>	1	Seed	not available	151.0	not available	Duke, 1992 *
<a href="#">SESAMOSE</a>	0	Seed	not available	not available	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">SESANOL</a>	0	Plant	not available	not available	not available	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<a href="#">SIMPLEXOSIDE-AGLYCONE</a>	0	Seed	16.0	86.0	not available	Duke, 1992 *
<a href="#">SODIUM</a>	1	Seed	46.0	634.0	0.29	Duke, 1992 *
<a href="#">SQUALENE</a>	10	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">STARCH</a>	5	Seed	150000.0	200000.0	-0.45	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<a href="#">STEARIC-ACID</a>	8	Seed	11808.0	32832.0	0.15	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">STEARIC-ACID</a>	8	Seed Oil	not available	60000.0	-0.45	Duke, 1992 *
<a href="#">STEROLS</a>	0	Seed	656.0	3110.0	not available	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">STIGMAST-7-EN-3-BETA-OL</a>	0	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">STIGMASTEROL</a>	12	Seed	not available	780.0	0.46	Duke, 1992 *
<a href="#">STIGMASTEROL</a>	12	Seed Oil	not available	not available	not available	Duke, 1992 *
<a href="#">SUCROSE</a>	14	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">TANNIC-ACID</a>	41	Seed	not available	not available	not available	Duke, 1992 *
<a href="#">THIAMIN</a>	31	Seed	5.0	10.0	0.81	USDA's Ag Handbook 8 and sequelae)
<a href="#">THREONINE</a>	4	Seed	7360.0	12396.0	0.95	Duke, 1992 *

Chemical Name	Activity Count	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<a href="#">TOCOPHEROLS</a>	0	Seed	150.0	250.0	-0.53	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<a href="#">TRANS-FERULIC-ACID</a>	2	Seed	5.0	40.0	-0.92	Duke, 1992 *
<a href="#">TRYPTOPHAN</a>	29	Seed	2010.0	4969.0	0.56	Duke, 1992 *
<a href="#">TYROSINE</a>	8	Seed	4220.0	11818.0	0.94	Duke, 1992 *
<a href="#">VALINE</a>	3	Seed	5490.0	15527.0	0.43	Duke, 1992 *
<a href="#">VANILIC-ACID</a>	24	Leaf	not available	not available	not available	Duke, 1992 *
<a href="#">VERBASCOSIDE</a>	20	Plant	not available	388.0	not available	Duke, 1992 *
<a href="#">WATER</a>	0	Seed	45100.0	50820.0	-0.68	USDA's Ag Handbook 8 and sequelae)
<a href="#">ZINC</a>	77	Seed	24.0	102.0	1.61	Duke, 1992 *