

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Plantago ovata*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	L-ARABINOSE	Seed		140000.0	1.0	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
3	XYLOSE	Seed	460000.0	800000.0	1.0	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
3	MUCILAGE	Seed	100000.0	300000.0	0.6463360496314006	--
27	LINOLEIC-ACID	Seed Oil		534000.0	0.5619112798571412	--
6	MYRISTIC-ACID	Seed		1300.0	-0.2789850933065345	--
18	OLEIC-ACID	Seed Oil		254000.0	-0.35106622403308685	--
8	STEARIC-ACID	Seed	1300.0	3450.0	-0.4905367554394443	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
0	LINOLENIC-ACID	Seed	511.0	1500.0	-0.5536758709883314	--
1	BEHENIC-ACID	Seed		1300.0	-0.5564308287176762	--
1	LIGNOCERIC-ACID	Seed		400.0	-0.5742301369933868	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
13	PALMITIC-ACID	Seed	1300.0	5500.0	-0.5861182036028835	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
27	LINOLEIC-ACID	Seed	13000.0	24375.0	-0.7089861957266169	--
18	OLEIC-ACID	Seed	8000.0	19470.0	-0.8190453796719163	--
0	FAT	Seed	50000.0	51000.0	-1.1292561293337569	--
0	(+)-BOSCHNIKINE	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
9	BETA-AMYRIN	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOCTADECANE	Seed Coat				--
14	SUCROSE	Plant				--
0	N-DOTRIACONTANE	Seed Coat				--
0	ISOHEPTADECANE	Seed Coat				--
0	N-TETRACOSANE	Seed Coat				--
2	PHYTOSTEROLS	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
10	ALPHA-AMYRIN	Seed				--
0	DL-VALINE	Plant				--
0	9-OXO-OCTADEC-CIS-12-ENOIC-ACID	Seed Oil				--
0	STEROL	Plant				--
78	LUTEOLIN	Leaf				--
0	L-RHAMNOSE	Seed				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
14	SUCROSE	Seed				--
3	N-HENTRIACONTANE	Seed Coat				--
0	INDICAININE	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	STEARIC-ACID	Seed Coat				--
0	TANNINS	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	DL-NORLEUCINE	Seed				--
1	N-NONACOSANE	Seed Coat				--
27	LINOLEIC-ACID	Seed Coat				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	L-LYSINE	Seed				--
12	GLYCINE	Seed				--
0	ARABINOXYLANS	Seed	170000.0	255000.0		Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
47	BETA-SITOSTEROL	Seed				--
0	D-XYLOSE	Seed				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	DL-ALANINE	Seed				--
0	ISONONACOSANE	Seed Coat				--
0	RHAMNOSE	Seed		70000.0		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ISOHEXADECANE	Seed Coat				--
0	L-CYSTINE	Seed				--
8	GLUTAMIC-ACID	Seed				--
0	ALDOBIURONIC-ACID	Seed				--
0	ISORICINOLEIC-ACID	Seed Oil				--
0	D-XYLOSE	Plant				--
6	MYRISTIC-ACID	Seed Coat				--
0	PLANTEOSE	Seed				--
0	ISOHENTRIACONTANE	Seed Coat				--
0	L-ASPARAGINE	Seed				--
0	FIXED-OIL	Endosperm		88000.0		--
12	STIGMASTEROL	Seed				--
0	PLATAGONINE	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	D-GALACTURONIC-ACID	Seed				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
0	D-GALACTURONIC-ACID	Plant				--
0	LINOLENIC-ACID	Seed Coat				--
0	(-)-L-ASPARAGINE	Seed				--
0	N-EICOSANE	Seed Coat				--
18	OLEIC-ACID	Seed Coat				--
0	N-PENTACOSANE	Seed Coat				--
0	DL-VALINE	Seed				--
0	ISODOTRIACONTANE	Seed Coat				--
0	INDICAMINE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-NONADECANE	Seed Coat				--
0	ISOPENTACOSANE	Seed Coat				--
3	VALINE	Plant				--
20	AUCUBIN	Seed				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
0	INDICAINE	Seed				--
0	N-TRITRIACONTANE	Seed Coat				--
3	MUCILAGE	Seed Coat				--
0	N-DOCOSANE	Seed Coat				--
7	GLUCOSE	Seed				--
13	PALMITIC-ACID	Seed Coat				--
0	URONIC-ACID	Seed				--
0	ALSOBIURONIC-ACID	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-HEXADECANE	Seed Coat				--
0	ANTE-ISOHEXADECANE	Seed Coat				--
0	ISOTRITRIACONTANE	Seed Coat				--
0	ANTE-ISO-OCTADECANE	Seed Coat				--
2	CAMPESTEROL	Seed				--
1	GALACTOSE	Seed				--
8	TYROSINE	Seed				--
0	4-O-METHYL-GLUCURONIC-ACID	Plant				--
0	N-HEPTACOSANE	Seed Coat				--
2	N-HEXACOSANE	Seed Coat				--
0	N-TRICOSANE	Seed Coat				--
0	(+)-BOSCHNIKINIC-ACID	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	AUCUBIN-GLUCOSIDE	Seed				--
8	FRUCTOSE	Seed				--
0	N-OCTADECANE	Seed Coat				--
35	TANNIN	Plant				--
0	N-HENEICOSANE	Seed Coat				--
0	N-HEPTADECANE	Seed Coat				--
27	LINOLEIC-ACID	Se	13000.0	24375.0		--
0	N-TRIACONTANE	Seed Coat				--