

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	(+)-BOSCHNIAKINE	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	(+)-BOSCHNIAKINIC-ACID	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	(-)-L-ASPARAGINE	Seed				--
0	4-O-METHYL-GLUCURONIC-ACID	Plant				--
0	9-OXO-OCTADEC-CIS-12-ENOIC-ACID	Seed Oil				--
0	ALDOBIURONIC-ACID	Seed				--
10	ALPHA-AMYRIN	Seed				--
0	ALSOBIURONIC-ACID	Seed				--
0	ANTE-ISO-OCTADECANE	Seed Coat				--
0	ANTE-ISOHEXADECANE	Seed Coat				--
0	ARABINOXYLANS	Seed	170000.0	255000.0		Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
20	AUCUBIN	Seed				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
0	AUCUBIN-GLUCOSIDE	Seed				--
1	BEHENIC-ACID	Seed		1300.0	-0.5564308287176762	--
9	BETA-AMYRIN	Seed				--
47	BETA-SITOSTEROL	Seed				--
2	CAMPESTEROL	Seed				--
0	D-GALACTURONIC-ACID	Plant				--
0	D-GALACTURONIC-ACID	Seed				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	D-XYLOSE	Plant				--
0	DL-ALANINE	Seed				--
0	DL-NORLEUCINE	Seed				--
0	DL-VALINE	Seed				--
0	DL-VALINE	Plant				--
0	FAT	Seed	50000.0	51000.0	-1.1292561293337569	--
0	FIXED-OIL	Endosperm		88000.0		--
8	FRUCTOSE	Seed				--
1	GALACTOSE	Seed				--
7	GLUCOSE	Seed				--
8	GLUTAMIC-ACID	Seed				--
12	GLYCINE	Seed				--
0	INDICAINE	Seed				--
0	INDICAININE	Seed				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	INDICAMINE	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ISODOTRIACONTANE	Seed Coat				--
0	ISOHENTRIACONTANE	Seed Coat				--
0	ISOHEPTADECANE	Seed Coat				--
0	ISOHEXADECANE	Seed Coat				--
0	ISONONACOSANE	Seed Coat				--
0	ISOOCTADECANE	Seed Coat				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ISOPENTACOSANE	Seed Coat				--
0	ISORICINOLEIC-ACID	Seed Oil				--
0	ISOTRITRIACONTANE	Seed Coat				--
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.
0	L-ASPARAGINE	Seed				--
0	L-CYSTINE	Seed				--
0	L-LYSINE	Seed				--
0	L-RHAMNOSE	Seed				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
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.
27	LINOLEIC-ACID	Seed Coat				--
27	LINOLEIC-ACID	Seed	13000.0	24375.0	-0.7089861957266169	--
27	LINOLEIC-ACID	Seed Oil		534000.0	0.5619112798571412	--
27	LINOLEIC-ACID	Se	13000.0	24375.0		--
0	LINOLENIC-ACID	Seed Coat				--
0	LINOLENIC-ACID	Seed	511.0	1500.0	-0.5536758709883314	--
78	LUTEOLIN	Leaf				--
3	MUCILAGE	Seed	100000.0	300000.0	0.6463360496314006	--
3	MUCILAGE	Seed Coat				--
6	MYRISTIC-ACID	Seed Coat				--
6	MYRISTIC-ACID	Seed		1300.0	-0.2789850933065345	--
0	N-DOCOSANE	Seed Coat				--
0	N-DOTRIACONTANE	Seed Coat				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	N-EICOSANE	Seed Coat				--
0	N-HENEICOSANE	Seed Coat				--
3	N-HENTRIACONTANE	Seed Coat				--
0	N-HEPTACOSANE	Seed Coat				--
0	N-HEPTADECANE	Seed Coat				--
2	N-HEXACOSANE	Seed Coat				--
0	N-HEXADECANE	Seed Coat				--
1	N-NONACOSANE	Seed Coat				--
0	N-NONADECANE	Seed Coat				--
0	N-OCTADECANE	Seed Coat				--
0	N-PENTACOSANE	Seed Coat				--
0	N-TETRACOSANE	Seed Coat				--
0	N-TRIACONTANE	Seed Coat				--
0	N-TRICOSANE	Seed Coat				--
0	N-TRITRIACONTANE	Seed Coat				--
18	OLEIC-ACID	Seed	8000.0	19470.0	-0.8190453796719163	--
18	OLEIC-ACID	Seed Coat				--
18	OLEIC-ACID	Seed Oil		254000.0	-0.35106622403308685	--
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.
13	PALMITIC-ACID	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.
0	PLANTEOSE	Seed				--
0	PLATAGONINE	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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.
8	STEARIC-ACID	Seed Coat				--
0	STEROL	Plant				--
12	STIGMASTEROL	Seed				--
14	SUCROSE	Seed				--
14	SUCROSE	Plant				--
35	TANNIN	Plant				--
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.
8	TYROSINE	Seed				--
0	URONIC-ACID	Seed				--
3	VALINE	Plant				--
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.