

List of Plants

BERBERINE

Chemid

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Dosage

LD50=27.5 mg/kg man

LD50=24 mg/kg (ipr mus)

LD50=329 (orl mus)

LD50=100 mg/kg

LD50=>1,000 mg/kg (orl rat)

LD50=8.2 mg/kg (ivn mus) Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.

LD50=26.4 mg/kg (ipr mus) Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.

LD50=10-20 (ivn dog)

LD50=13.2 mg/kg (scu mus) Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	*Reference
Adonis vernalis	Plant	--	--		*
Andira inermis	Bark	--	--		*
Argemone mexicana	Plant	--	410.0		*
Berberis vulgaris	Stem	1600.0	28900.0		Jim Duke's personal files.
Berberis vulgaris	Root Bark	25000.0	80000.0		*
Berberis vulgaris	Flower	--	6600.0		Jim Duke's personal files.
Berberis vulgaris	Bark	--	45000.0	1.0	Jim Duke's personal files.
Berberis vulgaris	Leaf	--	3000.0	1.0	Jim Duke's personal files.
Berberis vulgaris	Stem Bark	20000.0	25000.0	1.0	Jim Duke's personal files.
Berberis vulgaris	Root	4000.0	64800.0	1.07	*
Berberis vulgaris	Plant	--	--		Jim Duke's personal files.
Caulophyllum thalictroides	Plant	--	--		Jim Duke's personal files.
Chelidonium majus	Plant	--	--		*
Coptis chinensis	Rhizome	40000.0	90000.0	0.9	*
Coptis spp	Rhizome	40000.0	90000.0	0.9	*

<i>Coptis japonica</i>	Rhizome	40000.0	70000.0	-0.3	*
<i>Corydalis</i> spp	Plant	--	--		*
<i>Eschscholzia californica</i>	Shoot	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Hydrastis canadensis</i>	Plant	--	--		*
<i>Hydrastis canadensis</i>	Shoot	--	--		*
<i>Hydrastis canadensis</i>	Root	1385.0	60000.0	0.9	*
<i>Hydrastis canadensis</i>	Rhizome	--	50000.0	-1.51	*
<i>Macleaya cordata</i>	Plant	--	--		*
<i>Mahonia siamensis</i>	Stem Bark	--	2000.0	-1.0	Ruangrungsi, N., De-Eknamkul, W., Lange, G. L. 1984. Studies on Thai Medicinal Plant. Part I. <i>Planta Medica</i> , 50(5): 432-433.
<i>Mahonia japonica</i>	Sprout Seedling	--	--		Ikuta, A. and Itokawa, H. 1982. Studies on the Alkaloids from Tissue Culture of <i>Nandina domestica</i> . <i>Plant Tissue Cult Proc Int Congr Plant Tissue Cell Cult 5th</i> : 315316.
<i>Mahonia fortunei</i>	Leaf	--	--		Willaman, J. J., Li, H. L. 1970. Alkaloid-Bearing Plants and their Contained Alkaloids, 1957-1968. <i>Lloydia</i> , 33: 1-286.
<i>Mahonia fargesii</i>	Root	--	--		Liu, M. I., Feng, H. L. 1991. The Alkaloids Content of the Different Parts in <i>Dayecihuangbai</i> (<i>Mahonia fargesii</i>) by HPLC. <i>Chung Ts'ao Yao</i> , 22(7): 308-309.
<i>Mahonia aquifolium</i>	Root Bark	--	--		Kukic, P., Nikolic, R., Gorunovic, M. 1972. Comparative Pharmacognostic Study of <i>Berberis</i> (<i>Barberry</i>) <i>vulgaris</i> and <i>Berberis aquifolium</i> . <i>Acta Pharm Jugosl</i> , 22: 19-24.
<i>Mahonia aquifolium</i>	Plant	--	--		*
<i>Mahonia philipinensis</i>	Root	--	--		Willaman, J. J., Li, H. L. 1970. Alkaloid-Bearing Plants and their Contained Alkaloids, 1957-1968. <i>Lloydia</i> , 33: 1-286.
<i>Mahonia japonica</i>	Stem	--	--		Battersby, A. R., Francis, R. J., Hirst, M., Ruveda, E. A., Staunton, J. 1975. Biosynthesis. Part XXI. Investigations on the Biosynthesis of Stylophine in <i>Chelidonium Majus</i> . <i>J Chem Soc Perkin Trans I</i> : 1140.
<i>Mahonia fargesii</i>	Bark	--	--		Liu, M. I., Feng, H. L. 1991. The Alkaloids Content of the Different Parts in <i>Dayecihuangbai</i> (<i>Mahonia fargesii</i>) by HPLC. <i>Chung Ts'ao Yao</i> , 22(7): 308-309.
<i>Mahonia aquifolium</i>	Wood	--	--		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. <i>Chem Pap</i> , 39(4): 537-542.
<i>Mahonia aquifolium</i>	Shoot	--	--		*
<i>Mahonia repens</i>	Stem	--	--		Suess, T. R. and Stermitz, F. R. 1981. The Constituents of <i>Castilleja rhexifolia</i> , <i>Mahonia repens</i> and <i>Oncidium cebolleta</i> . <i>Dissertation Abstract Int B</i> , 42: 1025-1026.
<i>Mahonia aquifolium</i>	Root	--	--		*
<i>Mahonia nervosa</i>	Rhizome	--	--		Willaman, J. J., Li, H. L. 1970. Alkaloid-Bearing Plants and their Contained Alkaloids, 1957-1968. <i>Lloydia</i> , 33: 1-286.
<i>Mahonia gracilipes</i>	Root	--	--		Lu, G. H., Chen, J. M., Wang, L. W., Xiao, P. G. 1995. Chemical Constituents of <i>Mahonia gracilipes</i> (Oliv.) Fedde. <i>Huaxi Yaoxue Zazhi</i> , 10(4): 202-204.
<i>Mahonia fargesii</i>	Stem	--	--		Liu, M. I., Feng, H. L. 1991. The Alkaloids Content of the Different Parts in <i>Dayecihuangbai</i> (<i>Mahonia fargesii</i>) by HPLC. <i>Chung Ts'ao Yao</i> , 22(7): 308-309.
<i>Mahonia aquifolium</i>	Leaf	--	13.0	-1.0	Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of <i>Mahonia aquifolium</i> (Pursh) Nutt. II. <i>Chem Pap</i> , 39(4): 537-542.
<i>Mahonia repens</i>	Root	--	1417.0	-1.19	*
<i>Mahonia aquifolium</i>	Bark	--	--		*
<i>Menispermum canadense</i>	Plant	--	--		*
<i>Nandina domestica</i>	Plant	--	--		*

Papaver somniferum	Plant	--	--		Father Nature's Farmacy: The aggregate of all these three-letter citations.
Phellodendron amurense	Bark	8300.0	10000.0	-1.0	*
Podophyllum peltatum	Plant	--	--		*
Podophyllum hexandrum	Rhizome	--	--		*
Sanguinaria canadensis	Root	--	--		*
Xanthorhiza simplicissima	Root	12000.0	13000.0	-0.78	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Zanthoxylum alatum	Bark	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Zanthoxylum clava-herculis	Bark	--	--		*
Zanthoxylum americanum	Plant	--	--		*
Zanthoxylum clava-herculis	Plant	--	--		*