

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Mahonia aquifolium

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	(+)-SYRINGARESINOL	Bark		28.0		Wirth, C., Wagner, H. 1997. Pharmacologically Active Phenolic Compounds from the Bark of Mahonia aquifolium. Phytomedicine, 4(4): 357-358.
0	3-HYDROXY-4-METHOXYPHENYLETHYL-ALCOHOL	Bark		116.0		Wirth, C., Wagner, H. 1997. Pharmacologically Active Phenolic Compounds from the Bark of Mahonia aquifolium. Phytomedicine, 4(4): 357-358.
0	AQUIFOLINE	Root		365.0		Kostalova, D., Uhrin, D., Hrochova, V., Tomko, J. 1987. A new bisbenzylisoquinoline alkaloid from Mahonia aquifolium (Pursh) Nutt. Collect Czech Chem Commun, 52(1): 242-246.
2	AROMOLINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
2	AROMOLINE	Root				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
0	BALUCHISTINE	Root		40.0		Kostalova, D., Uhrin, D., Hrochova, V., Tomko, J. 1987. A new bisbenzylisoquinoline alkaloid from Mahonia aquifolium (Pursh) Nutt. Collect Czech Chem Commun, 52(1): 242-246.
38	BERBAMINE	Wood				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
38	BERBAMINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
38	BERBAMINE	Root				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
38	BERBAMINE	Leaf		31.0		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
38	BERBAMINE	Bark				--
38	BERBAMINE	Shoot				Khusainova, K. S. and Sadykov, Y. D. 1986. Alkaloids from Aerial Parts of Mahonia aquifolium. Izv Akad Nauk Tadzh Ssr Otd Fiz Mat Khim Geol Nauk, 1: 41-46.
130	BERBERINE	Root				--
130	BERBERINE	Wood				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
130	BERBERINE	Leaf		13.0	-1.0	Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
130	BERBERINE	Root Bark				Kukic, P., Nikolic, R., Gorunovic, M. 1972. Comparative Pharmacognostic Study of Berberis (Barberry) vulgaris and Berberis aquifolium. Acta Pharm Jugosl, 22: 19-24.
130	BERBERINE	Shoot				--
130	BERBERINE	Bark				--
130	BERBERINE	Plant				--
1	CANADINE	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	COLUMBAMINE	Bark				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
7	COLUMBAMINE	Root				Kostavolva, D., Brazdovicova, B., Tomko, J. 1981. Isolation of Quaternary Alkaloids from Mahonia aquifolium (Pursh) Nutt. I. Chem Zvesti, 35: 279-283.
7	COLUMBAMINE	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	CORYDINE	Leaf		29.0		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
6	CORYDINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
2	CORYPALMINE	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	CORYTUBERINE	Leaf		4300.0		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
3	CORYTUBERINE	Plant				--
3	CORYTUBERINE	Wood				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
3	CORYTUBERINE	Bark				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
16	HYDRASTINE	Root				--
5	ISOBOLDINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
5	ISOBOLDINE	Leaf		23.0		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
5	ISOCORYDINE	Flower				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
5	ISOCORYDINE	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	ISOCORYDINE	Wood				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	ISOCORYDINE	Bark				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
5	ISOCORYDINE	Leaf		26.0		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
11	ISOTETRANDRINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
11	ISOTETRANDRINE	Shoot				Khusainova, K. S. and Sadykov, Y. D. 1986. Alkaloids from Aerial Parts of Mahonia aquifolium. Izv Akad Nauk Tadzh Ssr Otd Fiz Mat Khim Geol Nauk, 1: 41-46.
13	JATRORRHIZINE	Bark				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
13	JATRORRHIZINE	Shoot				--
13	JATRORRHIZINE	Root				Kostavolva, D., Brazdovicova, B., Tomko, J. 1981. Isolation of Quaternary Alkaloids from Mahonia aquifolium (Pursh) Nutt. I. Chem Zvesti, 35: 279-283.
13	JATRORRHIZINE	Plant				--
11	MAGNOFLORINE	Root				Kostavolva, D., Brazdovicova, B., Tomko, J. 1981. Isolation of Quaternary Alkaloids from Mahonia aquifolium (Pursh) Nutt. I. Chem Zvesti, 35: 279-283.
11	MAGNOFLORINE	Plant				--
11	MAGNOFLORINE	Wood				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	MAGNOFLORINE	Bark				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
11	MAGNOFLORINE	Leaf		1600.0		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
0	MAHONINE	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	N-HEPTACOSAN-1-OL	Leaf Wax				Berg, V. S. 1985. Physical, Chemical and Spectral Properties of Leaf Surfaces of Berberis aquifolium (Pursh.). Plant Cell Environ, 8(9): 631-638.
0	NONACOSAN-19-OL	Leaf Wax				Berg, V. S. 1985. Physical, Chemical and Spectral Properties of Leaf Surfaces of Berberis aquifolium (Pursh.). Plant Cell Environ, 8(9): 631-638.
4	OBAMEGINE	Root				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
4	OBAMEGINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
10	OXYACANTHINE	Root				--
10	OXYACANTHINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
10	OXYACANTHINE	Plant				Galle, K., Muller-Jakic, B., Proebstle, A., Jurcic, K., Bladt, S., Wagner, H. 1994. Analytical and Pharmacological Studies on Mahonia aquifolium. Phytomedicine, 1(1): 59-62.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	OXYACANTHINE	Shoot				Khusainova, K. S. and Sadykov, Y. D. 1986. Alkaloids from Aerial Parts of Mahonia aquifolium. Izv Akad Nauk Tadzh Ssr Otd Fiz Mat Khim Geol Nauk, 1: 41-46.
10	OXYACANTHINE	Bark				Mulelr, K., Ziereis, K., Gawlik, I. 1995. The Antipsoriatic Mahonia aquifolium and its Active Constituents, II. Antiproliferative Activity Against Cell Growth of Human Keratinocytes. Planta Medica, 61(1): 74-75.
0	OXYBERBERINE	Root				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
0	OXYBERBERINE	Plant				Misik, V., Bezakova, L., Malekova, L., Kostalova, D. 1995. Lipoxygenase Inhibition and Antioxidant Properties of Protoberberine and Aporphine Alkaloids Isolated from Mahonia aquifolium. Planta Medica, 61(4): 372-373.
0	OXYBERBERINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
17	PALMATINE	Wood				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
17	PALMATINE	Bark				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
17	PALMATINE	Shoot				--
17	PALMATINE	Root				Kostavolva, D., Brazdovicova, B., Tomko, J. 1981. Isolation of Quaternary Alkaloids from Mahonia aquifolium (Pursh) Nutt. I. Chem Zvesti, 35: 279-283.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
17	PALMATINE	Leaf		13.0		Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
17	PALMATINE	Plant				--
0	RESIN	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	SCOULERINE	Bark				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
35	TANNIN	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
2	TETRAHYDROBERBERINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	TETRAHYDROJATRORRHIZINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.