

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Mahonia aquifolium

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
0	OXYBERBERINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
130	BERBERINE	Bark				--
0	RESIN	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.
2	AROMOLINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
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.
7	COLUMBAMINE	Plant				--
0	OXYBERBERINE	Root				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
130	BERBERINE	Plant				--
17	PALMATINE	Plant				--
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.
2	AROMOLINE	Root				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
1	CANADINE	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
10	OXYACANTHINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
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.
10	OXYACANTHINE	Root				--
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.
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.
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.
130	BERBERINE	Root				--
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.
38	BERBAMINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
0	MAHONINE	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.
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.
38	BERBAMINE	Root				--
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.
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.
13	JATRORRHIZINE	Shoot				--
11	MAGNOFLORINE	Plant				--
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.
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.
10	OXYACANTHINE	Bark				Muleir, K., Ziείς, 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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
38	BERBAMINE	Bark				--
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				--
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.
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.
4	OBAMEGINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
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.
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
17	PALMATINE	Shoot				--
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.
4	OBAMEGINE	Root				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	CORYPALMINE	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
11	ISOTETRANDRINE	Shoot				Khusainova, K. S. and Sadykov, Y. D. 1986. Alkaloids from Aerial Parts of Mahonia aquifolium. Izv Akad Nauk Tadz Ssr Otd Fiz Mat Khim Geol Nauk, 1: 41-46.
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.
5	ISOBOLDINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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.
11	ISOTETRANDRINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
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.
0	TETRAHYDROJATRORRHIZINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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.
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.
16	HYDRASTINE	Root				--

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.
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.
2	TETRAHYDROBERBERINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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	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.
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.
3	CORYTUBERINE	Plant				--
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.
130	BERBERINE	Shoot				--
35	TANNIN	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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
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.
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.
6	CORYDINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.