

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Mahonia aquifolium

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
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				--
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				--
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.
35	TANNIN	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
17	PALMATINE	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.
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.
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.
16	HYDRASTINE	Root				--
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	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.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	MAGNOFLORINE	Plant				--
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.
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	MAGNOFLORINE	Wood				Slavik, J., Bochorakova, J., Kostalova, D., Hrochova, V. 1985. Alkaloids of Mahonia aquifolium (Pursh) Nutt. II. Chem Pap, 39(4): 537-542.
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.
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	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.
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				Muleir, K., Ziweis, 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
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				--
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.
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.
5	ISOBOLDINE	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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.
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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	OBAMEGINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
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	(+)-SYRINGARESINOL	Bark		28.0		Wirth, C., Wagner, H. 1997. Pharmacologically Active Phenolic Compounds from the Bark of Mahonia aquifolium. Phytomedicine, 4(4): 357-358.
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.
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.
2	AROMOLINE	Root				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
2	CORYPALMINE	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.
2	AROMOLINE	Seed				Kostalova, D., Hrochova, V., Tomko, J. 1986. Tertiary Alkaloids of Mahonia aquifolium (Pursh) Nutt. III. Chem Pap, 40(3): 389-394.
1	CANADINE	Plant				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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.
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.
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.
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	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.

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