

# List of All Chemicals

## **P** Mentha sp (Lamiaceae)

### Common name(s)

Mint

### How used

Medicinal

\*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.

Chemical	Part <input type="button" value="All"/>	Low PPM	High PPM	StdDev	*Reference
HESPERIDIN	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<b>Activities (31)</b>					
Analgesic					
Anti-LDL					
AntiDNA					
AntiRNA					
Antiallergenic	Yakugaku Zasshi, 111: 193, 1991.				
Antibradycardic	Economic & Medicinal Plant Research, 5: 366.				
Anticapillary-Fragility					
Antiflu	Economic & Medicinal Plant Research, 5: 197.				
Antihistaminic					
Antiinflammatory IC47=50 mg/kg scu	Da Silva Emim, J.A., Oliveira, A.B. and Lapa, A.J. Pharmacological Evaluation of the Anti-inflammatory Activity of a Citrus Bioflavonoid, Hesperidin, and the Isoflavonoids, Durtin and Claussequinone, in Rats and Mice. J. Pharm. Pharmacol. 46:118-122,1994				
Antiinflammatory IC63=100 mg/kg scu	Da Silva Emim, J.A., Oliveira, A.B. and Lapa, A.J. Pharmacological Evaluation of the Anti-inflammatory Activity of a Citrus Bioflavonoid, Hesperidin, and the Isoflavonoids, Durtin and Claussequinone, in Rats and Mice. J. Pharm. Pharmacol. 46:118-122,1994				
Antileukotriene					
Antioxidant IC50=8 ppm	Phytochemistry, 37: 1463.				
Antiprostaglandin					
Antistomatitic					
Antitriglyceride					
Antiulcer 100-150 mg/kg ipr					
Antivaccinia	Economic & Medicinal Plant Research, 5: 197.				
Antiviral	Vlietinck, A.J. and Dommissie, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart.				
Anxiolytic					
CNS-Depressant 100-150 mg/kg ipr					
Calcium-Antagonist IC50=1.2 uM fbt					
Capillariprotective	Martindale's 29th				
Catabolic					
Choleretic					
Cyclooxygenase-Inhibitor					
Hypolipidemic					
Lipoxygenase-Inhibitor					
Pesticide					
ProHDL					
Vasopressor					
LIMONENE	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

**Activities (60)**

AChE-Inhibitor	Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. &amp; Physiol.</i> , 23, 1985, 383-8.
Acaricide LC100=8 uM	
Allelochemic	
Allergenic 1/20th carene	
Antiacetylcholinesterase IC22-26=1.2 mM	
Antiadenomic	
Antialzheimeran?	Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. &amp; Physiol.</i> , 23, 1985, 383-8.
Antiasthmatic	
Antibacterial	Revista Itiliana Eppos, 12: 5, 1994.
Anticancer	
Antiesophagitic	
Antifeedant	
Antiflu	Economic & Medicinal Plant Research, 5: 195.
Antiinflammatory	
Antilithic	
Antilymphomic	
Antimetastatic (Stomach)	
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiobesity	
Antiseptic	
Antispasmodic ED50=0.197 mg/ml	Fitoterapia No.59-1984.
Antitumor	
Antitumor (Breast)	
Antitumor (Colon)	
Antitumor (Pancreas)	
Antitumor (Prostate)	
Antitumor (Stomach)	
Antiviral	
Apoptotic	
Bronchoprotectant	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidistat	
Chemopreventive	
Cholesterolytic	
Detoxicant	
Enterocontractant	J. Aromatherapy 4: 22.
Expectorant	
FLavor	
Fungiphilic	J. Agric. Food Chem. 43: 2283.
Fungistat	
GST-Inducer	
Herbicide IC50=45 uM	Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp.
Histaminic	
Immunomodulator	
Insecticide 0.37 uM/fly	
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Interleukin-6-Inhibitor	
Irritant	
Lipolytic	
Myorelaxant 50 mg/kg	
NO-Genic	
Nematicide IC=100 ug/ml	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Ornithine-Decarboxylase-Inhibitor ~750 mg/kg (diet)	
Ozone-Scavenger	
P450-Inducer	
Peristaltic	
Pesticide	
Photosensitizer	Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp.
Sedative ED=1-32 mg/kg	Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)
Transdermal	

**Activities (5)**Calcium-Antagonist IC<sub>50</sub>=441 uM gpg (weak activity)

Hepatotoxic Lawrence Review of Natural Products, Jan-92.

Nematicide MLC=1 mg/ml Shoyakugaku Zasshi, 44: 183.

Pesticide

Pulmonotoxic De Smet, P.A.G.M., Keller, K., Hansel, R. and Chandler, R.F., eds. 1993. *Adverse Effects of Herbal Drugs 2.* Springer-Verlag, Berlin. 348pp.**Activities (63)**

Allergenic Martindale's 29th

Analgesic Martindale's 28th

Anesthetic 2,000 ppm Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. *J. Pharm. Pharmacol.* 46: 14-18, 1994.Antiacetylcholinesterase IC<sub>50</sub>=2.0 mMAntiaggregant IC<sub>50</sub>=750Antiallergic *J. Food Hyg. Soc. Jap.* 33(6): 569.Antiasthmatic Mills, Simon and Bone, Kerry. 2000. *Phytotherapy.* Churchill Livingstone, Edinburgh.

Antibacillus MIC=1.25 mg/ml

Antibacterial MIC=0.625-2.5

Antibronchitic Martindale's 28th

Antidandruff A.L.L. Hunting. *Encyclopedia of Shampoo Ingredients.* Micelle Press, Cranford NJ. 467 pp.

Antiescherichic MIC=1.25 mg/ml

Antihalitosis *American Health*, 12(4): 17, 1993.Antihistaminic *J. Food Hyg. Soc. Jap.* 33(6): 569.

Antiinflammatory Martindale's 28th

Antilisteria MIC=0.625 mg/ml

Antineuralgic

Antiodontalgic Martindale's 28th

Antipruritic Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. *J. Pharm. Pharmacol.* 46: 14-18, 1994.

Antipyretic

Antirheumatic Martindale's 28th

Antisalmonella MIC=0.625 mg/ml

Antiseptic 4 x phenol Wagner & Wolff, eds. 1977. *New Natural Products (RS164. I56. 176)*

Antisinusitic Martindale's 28th

Antispasmodic ED<sub>50</sub>=0.01 mg/ml *Fitoterapia* No.59-1984.

Antistaphylococcic MIC=0.625 mg/ml

Antistreptococcic MIC=0.4 mg/ml

Antitartar

Antivaginitic

Antivulvitic

Bradycardic 65 mg/3 x day/woman Martindale's 28th

Bronchomucolytic *Advance in Chinese Medicinal Materials Research.* 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 200.Bronchomucotropic Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. *J. Pharm. Pharmacol.* 46: 14-18, 1994.Bronchorrhheic *Advance in Chinese Medicinal Materials Research.* 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 200.

CNS-Depressant

CNS-Stimulant Huang, K. C. 1993. *The Pharmacology of Chinese Herbs.* CRC Press, Boca Raton, FL 388 pp.

Calcium-Antagonist

Candidicide MIC=0.625 mg/ml

Carminative Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. *J. Pharm. Pharmacol.* 46: 14-18, 1994.

Choleretic

Ciliotoxic Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. *J. Pharm. Pharmacol.* 46: 14-18, 1994.

Congestant	Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994.
Convulsant	R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. <i>Tips</i> 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. <i>The Risk of Herbal Preparations. Anns. Intern. Med.</i> 117(2):165-6; Huxtable, R.
Counterirritant	
Decongestant? 11 mg/man	Eccles, R., et al. 1989. The effects of oral administration of (-)-menthol on nasal resistance to airflow and nasal sensation of airflow in subjects suffering from nasal congestion associated with the common cold. <i>J. Pharm. Pharmacol.</i> 42: 652-654, 1990.
Dermatitogenic	
Diaphoretic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs.</i> CRC Press, Boca Raton, FL 388 pp.
Enterorelaxant	<i>J. Aromatherapy</i> 4: 22.
Expectorant	Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994.
Gastroedative	Merck 11th Edition
Irritant	Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994.
Myorelaxant	Martindale's 29th
Nematicide MLC=1 mg/ml	Shoyakugaku Zasshi, 44: 183.
Neurodepressant	Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994.
Neuropathogenic 40-100 mg/day/rat	Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994.
Nociceptive	Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994.
Perfumery	Merck 11th Edition
Pesticide	
Refrigerant	Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994.
Rubefacient	
Termiticide	Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Transdermal	
Vibriocide	

MENTHONE      Plant      --      --      Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

**Activities (30)**

Acaricide				
Allelopathic				
Analgesic				
Antiacetylcholinesterase IC50=1.4 mM				
Antiaggregant IC50=750				
Antiallergic	J. Food Hyg. Soc. Jap. 33(6): 569.			
Antibacillary MIC=1.25 mg/ml				
Antibacterial MIC=0.625-5 mg/ml				
Antiescherichic MIC=5 mg/ml				
Antihistaminic	J. Food Hyg. Soc. Jap. 33(6): 569.			
Antilisteria MIC=1.25 mg/ml				
Antisalmonella MIC=5 mg/ml				
Antiseptic 2.25 x phenol	Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)			
Antispasmodic ED50=0.044 mg/ml	Fitoterapia No.59-1984.			
Antistaphylococcic MIC=0.625-2.5 mg/ml				
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.			
Candidicide MIC=2.5 mg/ml				
Cerebrotoxic orl man	J. Aromatherapy 4: 24.			
Culicide LC50=156-194 mg/l				
FLavor FEMA 5-50	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry			
Fungicide				
Insecticide LC50=156- 194 mg/l				
Larvicide LC50=156-194 mg/l				
Mutagenic				
Nematicide MLC=1 mg/ml	Shoyakugaku Zasshi, 44: 183.			
Perfumery	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Pesticide				
Psychoactive				
Sedative	Ortiz de Urbina, A.V., Martin*, M.L., Montero, M.J., Moran, A., and San Roman, L. 1988. Sedating and Antipyretic Activity of the Essential Oil of Calamintha sylvatica subsp. Ascendens. Journal of Ethnopharmacology, 25: 165-171, 1989.			
Trichomonicide LD100=600 ug/ml				

MENTHYL- ACETATE	Plant	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
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**Activities (2)**

Antispasmodic ED50=0.105 mg/ml	Fitoterapia No.59-1984.
Perfumery	Merck 11th Edition

ROTUNDIFOLINE	Plant	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
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