

# *Pistacia lentiscus*

## Mastic-Lentisk

Essential oil (From aerial parts)



### Activities / Targeted biological properties

- Hypertension treatment
- Stimulant and diuretic properties
- Antifungal and Antibacterial properties
- Insecticidal activity
- Anti-inflammatory activity
- Antioxidant activity
- ...



### Fields of application

- Pharmaceutical
- Food
- Feed
- Perfumery



### Recent scientific resources

- 1: Zaraa I, Ben Taazayet S, Trojjet S, El Euch D, Chelly I, Haouet S, Mokni M, Ben Osman A. Acute generalized exanthematous pustulosis induced by the essential oil of *Pistacia lentiscus*. *Clin Exp Dermatol*. 2012 Jun;37(4):361-3. doi: 10.1111/j.1365-2230.2011.04232.x. PubMed PMID: 22582909.
- 2: Quartu M, Serra MP, Boi M, Pillolla G, Melis T, Poddighe L, Del Fiacco M, Falconieri D, Carta G, Murru E, Cordeddu L, Piras A, Collu M, Banni S. Effect of acute administration of *Pistacia lentiscus* L. essential oil on rat cerebral cortex following transient bilateral common carotid artery occlusion. *Lipids Health Dis*. 2012 Jan 12;11:8. doi: 10.1186/1476-511X-11-8. PubMed PMID: 22239952; PubMed Central PMCID: PMC3315412.
- 3: Maxia A, Sanna C, Frau MA, Piras A, Karchuli MS, Kasture V. Anti-inflammatory activity of *Pistacia lentiscus* essential oil: involvement of IL-6 and TNF-alpha. *Nat Prod Commun*. 2011 Oct;6(10):1543-4. PubMed PMID: 22164803.
- 4: Mharti FZ, Lyoussi B, Abdellaoui A. Antibacterial activity of the essential oils of *Pistacia lentiscus* used in Moroccan folkloric medicine. *Nat Prod Commun*. 2011 Oct;6(10):1505-6. PubMed PMID: 22164794.
- 5: Barra A, Coroneo V, Dessi S, Cabras P, Angioni A. Characterization of the volatile constituents in the essential oil of *Pistacia lentiscus* L. from different origins and its antifungal and antioxidant activity. *J Agric Food Chem*. 2007 Aug 22;55(17):7093-8. Epub 2007 Jul 21. PubMed PMID: 17658828.
- 6: Yadav RK, Karamanolis K, Vokou D. Bacterial colonization of the phyllosphere of mediterranean perennial species as influenced by leaf structural and chemical features. *Microb Ecol*. 2005 Aug;50(2):185-96. Epub 2005 Oct 13. PubMed PMID: 16215646.
- 7: Koutsoudaki C, Krsek M, Rodger A. Chemical composition and antibacterial activity of the essential oil and the gum of *Pistacia lentiscus* Var. chia. *J Agric Food Chem*. 2005 Oct 5;53(20):7681-5. PubMed PMID: 16190616.
- 8: Traboulsi AF, Taoubi K, el-Haj S, Bessiere JM, Rammal S. Insecticidal properties of essential plant oils against the mosquito *Culex pipiens molestus* (Diptera: Culicidae). *Pest Manag Sci*. 2002 May;58(5):491-5. PubMed PMID: 11997977.
- 9: Magiatis P, Melliou E, Skaltsounis AL, Chinou IB, Mitaku S. Chemical composition and antimicrobial activity of the essential oils of *Pistacia lentiscus* var. chia. *Planta Med*. 1999 Dec;65(8):749-52. PubMed PMID: 10630120.