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## List of references supporting the assessment of *Origanum dictamnus* L., herba

Final

**The European Medicines Agency acknowledges that copies of the underlying works used to produce this monograph were provided for research only with exclusion of any commercial purpose.**

Anassis E. Herbs of Greece in therapeutics and Pharmacy. Athens, 1959, 216-217

Baden, C. In: Strid A. and Kit T., editors. Mountain Flora of Greece. Vol. 2. Edinburgh University Press, 1991, 138

Baumann H. Greek wild flowers and plant lore in ancient Greece, The Herbert Press Ltd, London, 1996, 119, 121

Bazaios K. 100 Herbs for 1000 therapies. Athens 1982, 154-157

Berendes J. Des Pedanios Dioskurides aus Anazarbos Arzeinmittellhre in fünf Büchern. Verlag von Enke, Stuttgart, 1902, 284-285. [German] Available at:  
<http://www.archive.org/stream/despedaniosdios00pedagoog#page/n5/mode/1up>

Chatzopoulou A. Karioti A. Gousiadou Ch. Lax Vivancos V. Kyriazopoulos P. Golegou S. Skaltsa H. Depsides and other polar constituents from *Origanum dictamnus* L. and their *in vitro* antimicrobial activity in clinical strains. *J Agric Food Chem* 2010, 58:6064–6068

Chinou I. Liolios C. Moreau D. Roussakis C. Cytotoxic activity of *Origanum dictamnus*. *Fitoterapia* 2007, 78:342-344

Chorianopoulos N. Kalpoutzakis E. Aligiannis N. Mitaku S. Nychas G.J. Haroutounian S.A. Essential oils of *Satureja*, *Origanum* and *Thymus* species: chemical composition and antibacterial activities against foodborne pathogens. *J Agric Food Chem* 2004, 52:8261-8267

Couladis M. Tzakou O. Verykokidou E. Harvala C. Screening of some Greek aromatic plants for antioxidant activity. *Phytother Res* 2003, 17(2):194-195



- CFR 2009. Title 21: Food and Drugs, PART 172 — Food additives permitted for direct addition to food for human consumption, Subpart F—Flavouring Agents and Related Substances. Available at: <http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&rgn=div8&view=text&node=21:3.0.1.1.3.6.1.1&idno=21>
- Daferera D.J. Ziogas B.N. Polissiou M.G. GC-MS Analysis of Essential Oils from Some Greek aromatic plants and their fungitoxicity on *Penicillium digitatum*. *J Agricult Food Chem* 2000, 48(6):2576-2581
- De Vincenzi M. Stamatii A. De Vincenzi A. Silano M. Constituents of aromatic plants: carvacrol. *Fitoterapia* 2004, 75(7-8):801-804
- Diapoulis H.A. Eliniki Chloris (Synopsis Florae Graecae). Vol. 2. Ministère de l'Agriculture. Athens, 1949, 114 [Greek]
- Economakis C.D. Demetzos C. Anastasaki T. Papazoglou V. Gazouli M. Loukis Ar. Thanos C.A. Harvala C. Volatile constituents of bracts and leaves of wild and cultivated *Origanum dictamnus*. *Planta Medica* 1999, 65(2):189-191
- Economakis C.D. Skaltsa H. Demetzos C. Sokovic M. Thanos C.A. Effect of phosphorus concentration of the nutrient solution on the volatile constituents of leaves and bracts of *Origanum dictamnus*. *J Agricult Food Chem* 2002, 50(22):6276-6280
- Economakis C. Karioti A. Skaltsa H. Perdetzoglou D. Demetzos C. Effect of Solution Conductivity on the Volatile Constituents of *Origanum dictamnus* L. in Nutrient Film Culture. *J Agricult Food Chem* 2005, 53:1656-1660
- Fernandes R. Heywood V.H. In: Tutin T.G. Heywood V.H. Burges N.A. Moore D.M. Valentine D.H. Walters S.M. Webb D.A. editors. Flora Europaea. Vol. 3. Cambridge University Press, 1972, 171
- Figueredo G. Cabassu P. Chalchat J.C. Pasquier B. Studies of Mediterranean oregano populations, VII: Chemical composition of essential oils of carvacrol-rich oregano of various origins. *J Ess Oil Res* 2006, 18:224-249
- Fragaki E.K. Contribution to the Plant Local Names. Athens, 1969 [Greek]
- Fournier P. In: Lechevalier P. editor. Le Livre des plantes médicinales et vénéneuses de France. Vol. 2. Paris, 1947, 67–69 [French]
- Gennadios P. In: Paraskeva L. editor. Lexicon Phytologicon. Athens, 1914, 731 [Greek]
- Goun E. Gunningham G. Solodnikov S. Krasnykh O. Miles H. Antithrombin activity of some constituents from *Origanum vulgare*. *Fitoterapia* 2002, 73:692-694
- Greuter W. Burdet H.M. Long G. editors. Med-Checklist. Vol. 3. Édition du conservatoire et jardin botanique de la Ville de Genève, 1986, 305 (477-64-294) [French]
- Hanlidou E. Karousou R. Kleftoyanni V. Kokkini S. The herbal market of Thessaloniki (N-Greece) and its relation to the ethnobotanical tradition. *J Ethnopharmacol* 2004, 91:281–299
- Harvala C. Skaltsa H. Contribution à l'étude chimique d'*Origanum dictamnus* L. – 1<sup>st</sup> Communication. *Plantes méd Phytothér* 1986, 4:300-304 [French]
- Harvala C. Menounos P. Argyriadou N. Essential oil from *Origanum dictamnus*. *Planta Medica* 1987, 53:107-109
- Havakis, I. Plants and Herbs of Crete. Athens, Greece, 1978, 147-149

- Ietswaart J.H. In: Davis P.H editor. Flora of Turkey and the East Aegean Islands 7:312. Edinburg University Press, 1982
- Karanika M.S. Komaitis M. Aggelis G. Effect of aqueous extracts of some plants of Lamiaceae family on the growth of *Yarrowia lipolytica*. *Intern J Food Microbiol* 2001, 64(1-2):175-181
- Kavadas D.S. Illustrated Botanical-Phytological Lexicon. Vol. 1. Pegasus, Athens, 1956, 298-302 [Greek]
- Komaitis M.E. Revinthi-Moraiti K. Evangelatos G. The lipid composition of fresh *Origanum dictamnus* leaves. *Food Chem* 1988, 27(1):25-32
- Kokkini S. Karousou R. Dardioti A. Krigas N. Lanaras T. Autumn essential oils of Greek oregano. *Phytochemistry* 1997, 44(5):883-886
- Kouri G. Tsimogiannis D. Bardouki H. Oreopoulou V. Extraction and analysis of antioxidant components from *Origanum dictamnus*. *Innov Food Sci Emerg Techn* 2007, 8:155-162
- Lam L.K.T. Zheng B. Effects of essential oils on glutathione S-transferase activity in mice. *J Agric Food Chem* 1991, 39(4):660-662
- Lampathianaki-Papadaki E. Folklore of Crete (Laografia of the island of Crete) Vol. 1. Iraklio, Crete, 1982, 245, 249, 260, 277
- Liolios C.C., Gortzi O. Lalas S. Tsaknis J. Chinou I. Liposomal incorporation of carvacrol and thymol isolated from the essential oil of *Origanum dictamnus* L. and *in vitro* antimicrobial activity. *Food Chem* 2009, 112:77-83
- Liolios CC. Graikou K. Skaltsa E. Chinou I. Dittany of Crete: A botanical and ethnopharmacological Review. *J Ethnopharmacol* 2010, 131:229-241
- Lionis C. Faresjo A. Skoula M. Kapsokoufalou M. Faresjo T. Antioxidant effects of herbs in Crete. *Lancet North American Edition* 1998, 352(9145):1987-1988
- Linnean herbarium (S-LINN). *Origanum dictamnus* L. Department of Phanerogamic Botany Swedish Museum of Natural History (S), 2003. Available at: <http://linnaeus.nrm.se/botany/fbo/o/origa/origdic.html.en>
- Møller J.K.S. Madsen H.L. Aaltonen T. Skibsted L.H. Dittany (*Origanum dictamnus*) as a source of water-extractable antioxidants. *Food Chem* 1999, 64(2):215-219
- Paulsen E. Wanat-Krzak M. Dall A. B.H. Andersen K.E. Contact sensitization to dittany of Crete (*Origanum dictamnus*) in a herbal remedy. *Contact Dermatitis* 2012, 67:101-118
- Piozzi F. Paternostro M. Passannanti S. Gacs-Baitz E. Triterpenes from *Amaracus dictamnus*. *Phytochemistry* 1986, 25(2):539-541
- Platakis E. *Origanum dictamnus* L. Dittany of Crete. Iraklio, Crete, 1975, 28-37
- Plimakis A.G. Dictamnus the miraculous herb of Crete. Hania, Greece, 1997 [Greek]
- Polunin O. Flowers of Europe. Oxford University Press, 1969, 67-69
- Proestos C. Sereli D. Komaitis M. Determination of phenolic compounds in aromatic plants by RP-HPLC and GC-MS. *Food Chem* 2006, 95:44-52
- Rechinger K.H. Flora Aegaea-Flora der Inseln und Halbinseln des Ägäischen Meeres. Wien, 1943, 530-531 [German]

- Revinthi-Moraiti K. Komaitis M.E. Evangelatos G. Kapoulas V. Identification and quantitative determination of the lipids of dried *Origanum dictamnus* leaves. *Food Chem* 1985, 16:15-24
- Schaden G. Hesse C. Über das ätherische Öl des Kretischen Dictams. *Monatshefte für Chemie* 1976, 107(4):929-931 [German]
- Sivropoulou A. Papanikolaou E. Nikolao C. Kokkini S. Lanaras T., Arsenakis M. Antimicrobial and cytotoxic activities of *Origanum* essential oils. *J Agricult Food Chem* 1996, 44(5):1202-1205
- Skaltsa H. Harvala C. Contribution à l'étude chimique d'*Origanum dictamnus* L. – 2<sup>nd</sup> Communication (Glucosides des Feuilles). *Plantes méd Phytothér* 1987, 11(1):56-62 [French]
- Skoula M. Gotsiou P. Naxakis G. Johnson B.C. A chemosystematic investigation on the mono- and sesquiterpenoids in the genus *Origanum* (Labiatae). *Phytochemistry* 1999, 52(4):649-657
- Skoula M. Kamenopoulos S. *Origanum dictamnus* L. and *Origanum vulgare* L. subsp. *hirtum*: Traditional uses and production in Greece. In: S. Padulosi editor Oregano. Proceedings of the IPGRI International Workshop on Oregano, 8-12 May 1996, CIHEAM, Valenzano, Bari, Italy, 1997, 26-32
- Skoula M. Harborne J.B. In: Kintzios S.E. Taxonomy and chemistry of *Origanum*. Oregano: the genera *Origanum* and *Lippia*. Medicinal and aromatic plants industrial profiles. CRC Press, 2002, 67-108
- Skrubis B. *Origanum dictamnus* L., a Greek native plant. *J Ethnopharmacol* 1979, 1(4):411-415
- Spyrou L. Medicinal herbs and their therapeutic properties. Athens, 1972, 206-210
- Stamatis G. Kyriazopoulos P. Golegou S. Basayiannis A. Skaltsas S. Skaltsa H. *In vitro* anti-*Helicobacter pylori* activity of Greek herbal medicines. *J Ethnopharmacol* 2003, 88:175-179
- Stammati A. Bonsi P. Zucco F. Moezelaar R. Alakomi H.L. Von Wright A. Toxicity of selected plant volatiles in microbial and mammalian short-term assays. *Food Chem Toxicol* 1999, 37:813-823
- Steinmetz E.F. In *Materia Medica Vegetabilis*, Part 1, Holland, 1954, 504
- Thanos C.A. Aristotle and Theophrastus on plant-animal interactions. In: Arianoutsou M. Groves R.H editors. Plant–animal interactions in Mediterranean-Type ecosystems. Kluwer Academic Publishers: Dordrecht, The Netherlands, 1994, 3-11
- Turland N.J. In: Phitos D. Strid A. Snogerup S. Greuter W. editors. The Red Data Book. World Wide Fund for Nature (WWF). Athens, Greece, 1995, 394-395
- Zaharopoulos I. Modern Phytotherapy (Sixroni pliris therapeftiki me ta votana). Athens, 1980, 120
- Zeytinoglu H. Incesu Z. Baser K.H.C. Inhibition of DNA synthesis by Carvacrol in mouse myoblast cells bearing a human N-RAS oncogene. *Phytomedicine* 2003, 10(4):292-299