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oregano-oil-extract

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**Infinity
Supercritical LLC**

Origanum vulgare Extract and Its Major Constituents



This webpage QR code

Structured Data

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Many spices exhibit biologically and pharmacologically beneficial properties. One such herb is Oregano.

PDF Version of the webpage (first pages)

<http://www.infinitysupercritical.com/topics/oregano-oil-extract.html>

Antioxidant, Antibacterial, and Cytotoxic Activities of the Ethanolic *Origanum vulgare* Extract and Its Major Constituents

- 1) Many spices exhibit biologically and pharmacologically beneficial properties. One such herb is Oregano.
- 2) Quote – oregano is a perennial shrub native to... mountainous area of Mediterranean and Euro/Irano-Siberian regions but it is also cultivated for its uses as a herb and therapeutic properties – unquote.
- 3) Previous studies have indicated that Oregano offers, quote – strong antioxidant capacity in both fresh and dry form – unquote.
- 4) Oregano in many forms has been historically used to treat, quote – respiratory disorders, indigestion, and rheumatoid arthritis – unquote.
- 5) The, quote – major components of its essential oil... are carvacrol and thymol – unquote.
- 6) Previous investigations have, quote – attributed ... oregano's antibacterial and antioxidant properties... mainly to carvacrol and thymol – unquote.
- 7) Other studies have shown that that the antioxidant characteristics of common Mediterranean spices were more effective than synthetic antioxidants.
- 8) Antioxidants are believed to reduce the presence of free radicals, which have been, quote – implicated in several pathological conditions, including cancer, cardiovascular diseases, neurodegenerative disorders, and drug toxicity – unquote.
- 9) This study set out to, quote – identify the main components of *Origanum vulgare*... assess the cytotoxic, antioxidant, and antimicrobial properties of the oregano extract – unquote, and determine the impact each constituent had on those effects.
- 10) The Oregano samples for this study were wild grown and collected on the, quote – southern slope of Mt. Parnon in Kynouria Peloponnese – unquote, Greece.
- 11) The Oregano Essential Oil (OEO) for these trials was prepared from ground leaves via ethanolic extraction, which yielded 19 percent dry weight.
- 12) The OEO was analyzed via gas chromatograph which indicated that it was composed of seven primary constituents: p-cumene, γ -terpinene, creosol, thymol, carvacrol, phytol, and 1-Octacosanol. Thymol and carvacrol were the major components, representing 25 percent and 60 percent respectively.
- 13) The first test sought to test the cytotoxicity of the OEO, and thymol and carvacrol individually, at increasing concentrations when applied to cultured A549 human epithelial cells.
- 14) The second test analyzed OEO's antioxidant properties by inoculating A549 human cell cultures with differing concentrations of OEO, thymol, and carvacrol before introducing hydrogen peroxide.
- 15) The third test investigated antibacterial properties of OEO, and thymol and carvacrol individually, using agar plates inoculated with multiple bacterial strains and differing concentrations.
- 16) The fourth test examined the rates of cellular uptake of carvacrol and Thymol when placed in contact with cultured A549 human epithelial cells.

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