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Journal of Essential Oil-Bearing Plants

Volume 10, Issue 4, July 2007, Pages 339-345

Composition, antimycotic and antibacterial activity of Ziziphora clinopodioides Lam. essential oil from Iran

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Abstract

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The essential oil components of Ziziphora clinopodioides Lam. from Iran were isolated via hydrodistillation and analyzed by GC-MS. Twenty seven components were identified in the essential oil of the plant. The main compounds consisted of pulegone (44.5%), terpineol (14.5%) methyl acetate (10.9%), iso-neomenthol (7.1%) and 1,8-cineole (4.1%). Antifungal and antimicrobial activities of different concentrations of the essential oil of Ziziphora clinopodioides Lam. was also evaluated. The antifungal tests were conducted by a poisoned food technique against the filamentous fungi (*Aspergillus niger*, *Tridiophyton rubrum*, *Trichoderma reesei* and *Microsporium gypseum*). Antimicrobial tests were carried out against four Gram negative bacteria (*Escherichia coli*, *Pseudomonas aeruginosa*, *Salmonella typhi* and *Klebsiella pneumonia*) and one Gram positive pathogen (*Staphylococcus aureus*) using a microdilution assay. The essential oil was found to be fungicidal at 1 µ/ml against *T. rubrum* and *M. gypseum*. The minimum inhibitory concentration of the oil against *Escherichia coli*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Salmonella typhi* and *Klebsiella pneumonia* were found to be 0.003, 0.033, 0.033, 0.067 and 0.067% (v/v) respectively.

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Author keywords

Anti-mycotic and antibacterial activities; Chemical composition of essential oil; Ziziphora clinopodioides

Indexed keywords

Species Index: *Aspergillus niger*; *Escherichia coli*; Fungi; *Hypocrea jecorina*; *Klebsiella pneumoniae*; *Microsporium*; Negibacteria; Posibacteria; *Pseudomonas aeruginosa*; *Salmonella typhi*; Ziziphora

ISSN: 0972060X Source Type: Journal Original language: English

Document Type: Article

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