



 **Current Issue**

 **Browse Issues**


 **Search**



 **About this Journal**

 **Instruction to Authors**

 **Online Submission**

 **Subscription**

 **Contact Us**



 **RSS Feed**

Acta Medica Iranica

2009;47(4) : 100-104

"Chemical composition and antimicrobial activity of the essential oil of *Ferulago Bernardii* Tomk. and M. Pimen"

"Farahnaz Khalighi-Sigaroodi, Abbas Hadjiakhoondi, Ahmad Reza Shahverdi, Vali-Allah Mozaffarian, Abbas Shafiee"

Abstract:

The chemical composition of the essential oil of the aerial parts of *Ferulago Bernardii* from Iran was analysed by GC and GC/MS. Sixty constituents were found representing 87.9% of the oil. The main constituents of the essential oil were 2,4,5-trimethyl-benzaldehyde (21.2%), α -pinene (17.0%), spathulenol (5.0%), cis-chrysanthenyl acetate (4.4%) and caryophyllene oxide (3.2%). Antimicrobial activity of the essential oil of *Ferulago Bernardii* by the broth dilution method in comparison with Gentamycin and Fluconazole as standard showed weak activity against *Staphylococcus aureus*, *Bacillus subtilis*, *Escherichia coli*, *Candida albicans* and *Aspergillus niger*. The essential oil did not show any activity against *Pseudomonas aeruginosa*.

Keywords:

"*Ferulago Bernardii* , 2,4,5-trimethyl-benzaldehyde , Antimicrobial activity"

TUMS ID: 1665

Full Text HTML  Full Text PDF  183 kB

top ▲

[Home](#) - [About](#) - [Contact Us](#)

TUMS E. Journals 2004-2009
Central Library & Documents Center
Tehran University of Medical Sciences

Best view with Internet Explorer 6 or Later at 1024*768 Resolutions