

论文

刺人参挥发油成分及其抗真菌活性的研究

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摘要:

关键词: 刺人参 挥发油 抗真菌活性

STUDIES ON CHEMICAL CONSTITUENTS AND ANTIFUNGAL ACTIVITIES OF ESSENTIAL OIL FROM *OPLOPANAX ELATUS* NAKAI

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Abstract:

Oplopanax elatus (Ci Ren Shen, in Chinese), a perennial bush with thorn, wildy grows in Chang Bai Mountain area, northeast China. The essential oil of its root, rhizome and stem was extracted by steam distillation with yields of 0.8~1.2%. By means of GC/MS/DS, 31 chemical constituents were identified as follows: n-hexanal (0.22%), heptaldehydc (0.17%), α-pinene (1.30%), β-pentyl furan(0.27%), n-octanal (2.07%), limonene(0.31%), ocimene(1.62%), δ-3-carene(0.19%), perillen(1.33%), 2,6-dimethyl heptalene(1.07%), borneol(1.27%), α-dodecenal(7.14%), α-copaene(0.54%), tetradcanal(1.17%), iaocaryophyllene (0.58%), β-farnesene(0.92%), α-caryophyllene(0.82%), γ-muurolene(0.73%), longifolene(1.67%), 3, 7, 11-trimethyl-2, 6, 10-dodinene(8.64%), γ-cadinene(2.79%), δ-cadinene (5.03%), nerolidol(14.93%), gualol(4.20%), torreyol(10.0%), cedrol(4.24%), bulnesol(7.79%) and farnesol(1.16%).The antimycotic activities of Ci Ren Shen cssential oil was determined in vitro by serial dilutions on solid nutrient medium. Fungistatic results were visible on 5 species, Microporum gypseum, M. lanosun, Trichophyton gypseum, T. purpureatum and Epidermophyton floccosum. The MIC is 0.0625%.

Keywords: Essential oil Antifungal activity Oplopanax elatus

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