

عنوان مقاله:

Antibacterial Properties of *Ajuga chamaecistus* Subsp. *Scoparia* and Chemical Composition of its Oils

محل انتشار:

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خلاصه مقاله:

In the present study, we reported the essential oils chemical composition and antibacterial activities of the aerial parts of *Ajuga chamaecistus* Ging. ex Benth. Subsp. *Scoparia* (Boiss.) Rech.f. that were collected during May ۲۰۱۳ and April ۲۰۱۴ and extracted by SDE (simultaneous distillation–extraction) and Clevenger apparatus. GC/MS analysis of the plant essential oils led to the identification of chemical composition of its oils. The main constituents of the essential oils in two SDE (simultaneous distillation–extraction) and Clevenger apparatus were β -Pinene (۲۳.۵%), α -Pinene (۶.۹%), Limonene (۱۰.۸%), Linalool (۸.۳) and Eugenol (۷.۷%). Essential oil was tested for their antibacterial activities using Gram-negative bacteria, Gram-positive bacteria. The plant was screened for its antibacterial activity and showed antibacterial activity against *P. aeruginosa*, *E. coli*, *K. pneumoniae*, *P. vulgaris*, *S. paratyphi*, *B. subtilis*, *S. aureus*, *S. epidermidis* and *S. dysenteriae*.

کلمات کلیدی:

Ajuga chamaecistus Subsp. *Scoparia*, Antibacterial activity, Essential oils, SDE and Clevenger

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