

عنوان مقاله:

Composition of essential oil of *Dorema aucheri* Boiss. and *Allium Jesdianum* Boiss. medicinal plants

محل انتشار:

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خلاصه مقاله:

Background: Medicinal plants contain plant materials such as leaf, root, flower and seed using for producing drugs. Essential oils and extracts of various species of edible and medicinal plants, herbs, and spices constitute of very potent natural biologically active agents. *Allium jesdianum* Boiss and *Dorema aucheri* Boiss are an important and endangered medicinal plants that main habitats are located in the Zagros Mountains of Iran. *Allium jesdianum* (Alliaceae family) and *Dorema aucheri* belongs to Umbelliferae family were collected at summer ۲۰۲۰ from Yasouj in Kohgiluyeh and Boyer-ahmad province during to fruiting stage. The main purpose of this study was to evaluate composition of essential oil of *Allium Jesdianum* and *Dorema aucheri* from Kohgiluyeh and Boyer-ahmad province in south west of Iran. Methods: The essential oils of *Allium jesdianum* and *Dorema aucheri* were obtained by hydro distillation using a Clevenger type apparatus and in *Dorema aucheri* was extracted by n-hexane and were analyzed by GC/MS. Results: (E)-Caryophyllene (۱۴.۶۳%), γ -Cadinene (۸.۵۸%), Hexadecanoic acid (۶.۱۱%), Caryophyllene oxide (۵.۱۵%), (E,E)- α -Farnesene (۴.۰۵%), Z-Phytol (۳.۲۲%), δ -Cadinene (۳.۱۸%), Camphor (۳.۰۴%) and γ -Eudesmol (۲.۹۲%) were the most components of *Dorema aucheri*, whereas Hexadecanoic acid (۱۸.۳۴%), Neral (Z-Citral) (۱۳.۷۴%), Dimethyl trisulfide (۱۲.۱۵%), Caryophyllene oxide (۸.۰۵%), Geraninal (E-Citral) (۵.۲۵%), Borneol (۳.۳۱%), Trans-propenyl propyl disulfide (۳.۱۷%), Geranyl acetate (۲.۷۴%), and β -Caryophyllene (۲.۶۵%) were the most constituents in *Allium jesdianum* oil, respectively. Conclusion: Kohgiluyeh and Boyer-Ahmad has good ethnobotanical potential for medicinal plants. This study is the first contribution to the ethnobotany of this region. We have gathered from this province some considerable knowledge about local medicinal plants such as *Allium jesdianum* and *Dorema aucheri* for treating common health problem that is ready to be further investigated in the laboratory.

کلمات کلیدی:

(E)-Caryophyllene, GC/MS, Hexadecanoic acid, Phytochemical)

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