

## عنوان مقاله:

Comparison of Essential Oils Compositions of *Boswellia carteri* Birdwood as a Food and Non-food in Different Distillation from Iranian Market

## محل انتشار:

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## خلاصه مقاله:

The genus *Boswellia* is one of the 17 genera belonging to Burseraceae family. In this study resin of *Boswellia carteri* birdwood collected or purchased from Tehram herbal Market as a food and non-food for chemical analysis. The essential oils of the resins of *Boswellia carteri* birdwood obtained by different methods of distillation (water distillation, steam distillation and hydro-steam distillation), the composition of essential oils was analyzed by gas chromatography (GC) and gas chromatography, coupled to mass spectrometry (GC-MS). The major components of the different methods of distillation oils of *Boswellia carteri* birdwood as a non-food by hydro-steam distillation were dihydro citronellol acetate (48%), 2-phenyl ethyl anthranilate (11.5%),  $\alpha$ -santonine (7.7%), and with water distillation were dihydro citronellol acetate (48.2%), borneol (8.6%), methyl decanoate (7.9%), and with steam distillation were dihydro citronellol acetate (60.6%), borneol (9.7%), (Z)- $\beta$ -ocimene (5.3%), respectively. Also the major components of *Boswellia carteri* birdwood as a food by hydro-steam distillation were dihydro citronellol acetate (55.6%),  $\alpha$ -santonine (9%), 2-phenyl ethyl anthranilate (7.3%), and with water distillation were dihydro citronellol acetate (63.7%), borneol (9.1%), 2-phenyl ethyl anthranilate (3%), and with steam distillation were dihydro citronellol acetate (55.9%), (E)-phytol acetate (7.5%), borneol (7.3%), were the predominant major compounds respectively.

## کلمات کلیدی:

*Boswellia carteri* birdwood, Distillation, essential oil, chemical composition

## لینک ثابت مقاله در پایگاه سیویلیکا:

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