

عنوان مقاله:

Determination of Antioxidant Capacity of *Haplophyllum canaliculatum* in Different Habitats of Larestan Region (Fars Province, Iran)

محل انتشار:

بیست و یکمین کنگره ملی و نهمین کنگره بین المللی زیست شناسی ایران (سال: 1399)

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خلاصه مقاله:

The genus *Haplophyllum* (*Haplophyllum*) belongs to the family Rutaceae, has ۷۰ species around the world, of which ۳۰ species grow in Iran and these species are more widespread in the southeastern regions of Iran, *Haplophyllum canaliculatum* Boiss., *Diagn.I.*) is one of the species of the genus *Haplophyllum* *Haplophyllum*, which grows only in Iran and its most important habitats are in the south of Iran, especially in Fars and Hormozgan provinces. This plant is used alone or in combination with other plants in traditional medicine. Due to the fact that limited studies have been done in the field of separation and constituents of wicker plant. In the present experiment, using DDPH and gallic acid as a reference antioxidant, the antioxidant capacity of eleven plant samples collected from four different habitats in Larestan region (southeast of Fars province, Iran) including the 'Nime' region (center of Larestan), 'Dehkuyeh' region (North of Larestan), 'Pardi Mountain' (south of Larestan) and 'Dorz va Saiban' (North-east of Larestan) were studied. The results showed that the mean inhibitory capacity in the collected samples was 79.09 ± 4.84 (IC₅₀ mg / ml), the maximum was ۹۲.۰۵ in sample No.۵ of the 'Nime' region (center of Larestan) and the minimum was ۶۸.۸۱ related to sample No.۱ 'Dehkuyeh' region (North of Larestan). The results showed that environmental conditions in Larestan region had an effect on the antioxidant capacity of the *Haplophyllum* plant and indicate the existence of differences in biochemical compounds related to antioxidants in this plant. It is suggested that more studies be conducted on the effect of environmental conditions on antioxidant properties and biochemical compounds of *Haplophyllum* in its different habitats in Fars province.

کلمات کلیدی:

Antioxidant, Temperatures, Phenolic compounds, *Haplophyllum*

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