

عنوان مقاله:

Study of quality, quantity and antioxidant activity of essential oils of two medicinal species of Artemisia kopetdaghensis Krasch. and A. sieberi Besser

محل انتشار:

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نویسندگان:

يويا آروين - Department of Agriculture, Payame Noor University, Tehran

رعنا فيروزه - Department of Agriculture, Payame Noor University, Tehran

خلاصه مقاله:

Recognition of medicinal plants and their biochemical compounds provides fundamental steps for the optimal use of medicinal combinations and their properties. In this study, the antioxidant activity, quantitative and qualitative of essential oil of Artemisia kopetdaghensis and A. sieberi Besser in Razo Jarglan rangelands located in North Khorasan province were investigated. The antioxidant capacity was evaluated by DPPH free radicals scavenging assays and the compounds present in the essential oil were studied by Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS). The results showed that PF compounds were identified in the essential oils of Artemisia species including Camphor with ۱۵.۸۳%, Pinocarveol with ۱۱.۳۷% and Borneol with ۱۱.۳۲% in A. kopetdaghensis and Davanone with ۱λ.ο1%, 1,λ-Cineol with Υ.λω% and Linalool with Δ.۴۳% in A. sieberi were the main essential oil compounds in these plants respectively. Essential oil yield percentage was o.91% in A. kopetdaghensis and o.11% in A. sieberi. Oxygenated monoterpenes were the most abundant compounds of extracted essential oil which accounted for YI.FA% in A. kopetdaghensis and Fo. 29% in A. sieberi. Regarding the antioxidant properties, A. kopetdaghensis with ٨٣ µg/ml showed more antioxidant capacity than A. sieberi in DPPH free radicals scavenging assays. It seemed that .A. kopetdaghensis had a higher medicinal value due to its essential oil yield and higher antioxidant capacity

كلمات كليدى:

,Antioxidant potential, Artemisia, Free radical, Razo Jarglan, Essential oil یتانسیل آنتی اکسیدانی, درمنه, رادیکال آزاد, رازو جرگلان, محتوای اسانس

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