عنوان مقاله:

Volatile constituents of areal parts of Datura stramonium from Iran

محل انتشار:

ششمین کنگره بین المللی توسعه کشاورزی، منابع طبیعی، محیط زیست و گردشگری ایران (سال: 1401)

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خلاصه مقاله:

Datura stramonium is an annual medicinal plant which belongs to the Solanaceae family. There are some evidences in Iranian traditional medicine about the anti-inflammatory, analgesic, antidiarrheals, larvicidal, pesticidal toxicity, antifungal, and anticonvulsant properties of D. stramonium. In the current study, the collected seeds from Ardabil were planted in grow bags and placed for three months in a greenhouse in the College of Agriculture, Tarbiat Modares University, Tehran; average air temperature was ۲۵ C. Air-dried of areal part was sampled and its essential oil (EO) was isolated by hydrodistillation for ۳ h in a Clevenger apparatus. EOs content and the composition were examined with gas chromatography techniques. The EO yield of D. stramonium was ۰.۰۳% (v/w). Its major compounds were Camphor (۲۹.۹%), Selin-۱۱-en-۴alpha-ol (۱۳.۰%), and Borneol (۱۰.۴%). Other important components identified in the essential oil were dihydrocitronellol, n-dodecane, isobornyl acetate, germacrene D, and n-tetradecane. In general, the areal parts essential oils of D. stramonium showed oxygenated monoterpenes.

کلمات کلیدی:

Essential oils, D. stramonium, Gas chromatography, Camphor

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