

عنوان مقاله:

Ecological Requirement, Ethnopharmacology, Phytochemical and Antioxidant Capacity of *Vaccinium arctostaphylos* (L. in Gilan Province (North of Iran

محل انتشار:

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خلاصه مقاله:

This study is investigate to ecological characters, ethnopharmacology, total phenols (TP), flavonoids (TF), anthocyanins (TA) content and antioxidant capacity in leaves and fruit of *Vaccinium arctostaphylos* L. from two natural habitats from Gilan provinve, which has been used as a heart tonic ,anti diabete and anti tumor. Ecological requirements were obtained in many field observation, ethno pharmacological survey was carried out among the well known indigenous herbal practitioners (۶۰-۷۸ ages) in South west of Gilan. The leaves and fruits of *Vaccinium arctostaphylos* L. were collected from two natural habitats (Khotbe sara, ۱۶۰۰ m and Asalem, ۱۳۰۰ m) during Sep to Oct ۲۰۱۳, respectively. Methanol extracts were obtained by maceration, TP, TF and TA were determined by spectro photometrically, antioxidant capacity were measured by total antioxidant capacity (TAC), reducing power (RP) and ۲,۲-Diphenyl-۱-picrylhydrazyl (DPPH) in compare of BHT and BHA antioxidant standard and Quersetin content was messured by HPLC method. Results were showed that *Vaccinium arctostaphylos* L. is usually wild grow in silty loam soils (۱۳۰۰-۱۶۰۰m) and its fruit was appeared from June to September .In both regions phenolic components had significant variation, ranging from TP content (۲۶۳.۱۷-۴۷۱.۲۶ mg GAEg^{-۱}), TF (۱۸۶.۱۸-۲۸۹.۱۷ mg QUE g^{-۱}) , TA (۷۴.۳-۱۴۵.۲۹ mg CydEg^{-۱}) and quersetin content (۱۳۶.۱۳-۲۱۸.۲ ppm respectively in ۱۳۰۰-۱۶۰۰m. Generally the fruits extract especially in ۱۶۰۰m had more source of phenolic compounds, so was showed better antioxidant capacity (IC₅₀ value ۲.۹۸±۰.۵۱ µg/ml) to will be confirmed the traditional uses of plant in these regions as an good anti-inflammatory and .anti diabetic

کلمات کلیدی:

Antioxidant, Autecology, Ethnopharmacology, TP, TF, TA, Gilan, *Vaccinium arctostaphylos* L

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