

عنوان مقاله:

Antioxidant Activity, Total Phenolic Compounds and Anthocyanin Contents in 35 Different Grapevine (*Vitis vinifera* L.) Cultivars Grown in Fars Province

محل انتشار:

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خلاصه مقاله:

Grapes are significant sources of nutritional antioxidants as well as biologically active dietary components. This study was carried out to determine the amount of total phenols, anthocyanins and antioxidant activity of 35 grapevine (*Vitis vinifera* L.) cultivars grown in Fars province (Iran). Ripened bunches were randomly harvested from grapevine collection in Zarghan (Fars province, Iran) Agricultural Research Center, and then were transferred to the laboratory. Berry size (length, diameter, and weight), skin weight, acidity, vitamin C, total soluble solids (TSS), pH, phenols, anthocyanins and antioxidant activity were evaluated. The results showed that total phenols, anthocyanin and antioxidant activity in the berries varied among the investigated cultivars. 'Gandome Uromia' (Red, 64) and 'Rishbaba Uromia' (Red, 75) cultivars had the highest values of antioxidant activity and total phenols. The lowest amount of phenol was obtained from 'Divaneh Kashmar' (White, 135) cultivar. Anthocyanin and antioxidant activity were the lowest in 'Jeshnion Bavanat' (White, 105) cultivar. Antioxidant activity had a positive significant correlation with amount of phenols and anthocyanin. In general, it was found that different cultivars in this study had a vast range of .antioxidant activity from 14.55 to 66.47%

کلمات کلیدی:

grape cultivars, nutritional value, vitamin C

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