

عنوان مقاله:

(Effect of UV-C Irradiation on Phenolic Composition of 'Rishbaba' Table Grape (Vitis vinifera cv. Rishbaba

محل انتشار:

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خلاصه مقاله:

The effect of postharvest UV-C irradiation on phenolic compounds accumulation was investigated in berries of 'Rishbaba' table grape (Vitis vinifera cv. Rishbaba). Grape clusters were harvested at mature stage and irradiated with UV-C using fluorescent germicidal lamp (۳۰ W, ۹۰ cm) with a peak emission at ۲۵۴ nm for ۰ (control), ۵ and ۱۰ min. UV-C treatment had significant effect on individual phenolic compounds. Catechin, epicatechin, procyanidin B<sub>2</sub>, quercetin ۳-galactoside, quercetin ۳-rhamnoside, chlorogenic acid and total polyphenols increased with UV-C dosage, but procyanidin B<sub>1</sub> and cyanidin ۳-galactoside decreased. Positive correlation was observed between UV-C treatment and individual phenolics except procyanidin B<sub>1</sub> and cyanidin ۳-galactoside. In conclusion, UV-C irradiation increased phenolic compounds of 'Rishbaba' table grape and its nutritional value

کلمات کلیدی:

Phenolic Compounds, Postharvest, 'Rishbaba' table grape, UV

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