

### عنوان مقاله:

The Effects of Gum Arabic and Warm Water Application on Physicochemical and Qualitative Parameters of Table Grape Fruits During the Postharvest Period

## محل انتشار:

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#### خلاصه مقاله:

Table grape is a non-climacteric fruit; however, it has a short shelf-life. Thus, some treatments that can prolong shelflife and maintain the quality of table grape fruits are required. This study was carried out as a factorial based on a completely randomized design with two factors: the first factor was the storage period and the second factor was the combination of warm water treatments and gum arabic (GA). Fruits were stored at Δ °C and Λο % relative humidity in permanent darkness. On days o, Yo, Fo, and Fo, seven berries from each replicate were randomly sampled and analyzed for physicochemical and qualitative parameters. Although storage time had a negative effect on the measured traits of 'Bidaneh Ghermez' table grape fruits, this effect was lessened by the application of warm water treatments and GA coating, especially FΔ °C+GA Δ%. Compared to the uncoated controls, fruits that received FΔ °C+GA &%, showed more levels of vitamin C (۳۰.۴۳–۱۶۰.۰۰%), TSS/TA (total soluble solids/titratable acidity) (19.۷۶– Y1. \( \Damps Y1. \( \Damps Y1. \Damps Y1. \Damps Y1. \Damps Y2. \Damps Y2. \Damps Y2. \Damps Y3. \ attributes (۶۶.۶۶–۲۴۸.۵۰%), but lower levels of weight loss (۵۳.۲۷–۴۵.۴۸%), HYOY (hydrogen peroxide) (۹.۹۰–۲۶.۵۵%), and MDA (malondialdehyde) (A.AF-YY.9Y%) during storage. Therefore, the application of warm water treatments and GA coating, particularly F\u00e4 \u20arC+GA \u00e4\u0000, in the shelf-life extension of fruits has revealed remarkable promising potential. .The advantages of warm water and GA include their low cost

# کلمات کلیدی:

Antioxidant activity, Edible coating, HYOY, MDA, total phenol

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