عنوان مقاله:

Gamma radiation processing under modified atmosphere packaging effects on microbial quality and antioxidant activity of fresh leafy vegetables during storage

محل انتشار:

مجله تحقیقات و کاربردهای هسته ای, دوره 2, شماره 2 (سال: 1401)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

Fresh leafy vegetables are great source of vital nutrients, to promote health and prevent diseases but they can transmit pathogenic microorganisms to human beings. Shelf life of these products is very limited post harvest and after three days at refrigeration temperature, they will spoil. Radiation processing combined with modified atmosphere packaging and refrigeration temperature is a practical treatment to ensure safety and enhance vegetables shelf life even to be used in international trades. The effects of irradiation doses at o, o.Y\Delta, o.\Delta and 1 kGy on fresh leafy vegetables packed under air, NY and vacuum atmospheres up to1o days of storage at F °C were studied. According to the results of microbial tests, and antioxidant activity of DPPHo, gamma radiation at dose of o.\Delta kGy under NY packing atmosphere are recommended as optimal storage conditions up to 1o days at F °C for fresh garlic chives, basil, mint and parsley

كلمات كليدى:

Gamma, Modified atmosphere packaging (MAP), Fresh leafy vegetables, Microbial safety, Antioxidant

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