Interaction Effect of Salicylic Acid and Putrescine on Vase life of Cut Narcissus Flowers

The effects of salicylic acid (SA) and Putrescine (Put), on cut Narcissus was studied. SA (0.1, 0.2 and 0.3 mg l⁻¹) and Put (0.5, 1.0 and 3.0 mg l⁻¹), their combinations were tested as preservative mixture. This study was conducted in a factorial experiment with complete randomized design on 108 Narcissus cut flowers in horticulture laboratory of agriculture faculty of Islamic Azad University, Jiroft branch. The recorded traits included Vase life, Microbial Count, Fresh weight changes and Solution uptake. the results shown using SA and PUT as a preservative significantly increased the vase life, Fresh weight changes, Microbial Count and Solution uptake (P≤0%). The results showed that salicylic acid and Putrescine treatments increased cut flower vase life, while decreased the Microbial Count with total delay of senescence. Maximum flower vase life was recorded in SA 0.1 mg l⁻¹ + PU 0.1 mg l⁻¹ treatments. A direct relationship between vase life and, increasing of Fresh weight changes and water uptake was observed as well.

کلمات کلیدی:
Cut flowers, Fresh weight changes, Narcissus, Vase life.

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