

Title The effects of different floral preservative solutions on keeping quality of cut lisianthus (*Eustoma grandiflorum*)

Author Maryam kia-Mohammadi, Ahmad Golchin and Davood Hashem-Abadi

Citation Abstracts Book, 6th International Postharvest symposium, 8-12 April 2009, Antalya, Turkey. 256 pages.

Keyword Lisianthus; preservative solution; quality

Abstract

To extend the vase life of cut lisianthus cv.mariachi bleu fonce different floral preservative solutions were prepared using factorial combinations of different levels of sucrose, citric acid and aluminium sulfate. Sucrose concentrations were 0, 20, 40 and 60 gL⁻¹ and citric acid and aluminium sulfate each used at 0 and 160 mgL⁻¹. The results showed that the vase life of water control was about 14 days whereas the vase life was about 27 days for cut flowers supplied with sucrose at 60 gL⁻¹. Application of citric acid decreased the vase life of cut lisianthus compared with water control and aluminum sulfate had no significant effect on this trait. The relative water content of cut flowers treated with sucrose was higher than that of water control during vase period. Indicating that sucrose treated cut flowers had lower water loss than the water control. Addition of citric acid reduced the relative water content of cut flowers but aluminum sulfate had no significant effect on the trait. The fresh weight of cut lisianthus decreased during vase treatment and the decrease was lower for sucrose treated cut flower than water control. The color of petal that were in sucrose solution sustained during their life time also.