

Title The effects of different floral preservative solutions on peduncle bending and quality attributes of lisianthus cut flowers

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Abstract

A study was conducted to determine the effects of sucrose (at 0, 20, 40 and 60 g/L), citric acid (at 0 and 160 mg/L), aluminum sulphate, (at 0 and 160 mg/L) and silver nitrate (at 0 and 120 g/L) on vase life and quality attributes of lisianthus cut flowers (cv. Mariachi Blue Fonce). Cut flowers were treated with the above mentioned compounds during 34 days storage at $20 \pm 2^{\circ}\text{C}$ and at the end of shelf life the amount of electrolyte leakage, Relative water content and days to peduncle and petiole bending were determined. 60 g/L sucrose in combination with citric acid was the most effective treatment in increasing the vase life. Flowers treated with 60 g/L sucrose and aluminum sulphate had the highest relative water content. The lowest electrolyte leakage (29.84%) was recorded in flowers treated with 60 g/L sucrose and 120 mg/L silver nitrate. Treatment with the combination of 60 g/L sucrose, citric acid and silver nitrate was the most effective treatment in delaying the peduncle and petiole bending.