

**Title** Response of various cut Lisianthus cultivars to silver thiosulfate treatment

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### **Abstract**

The effects of postharvest silver thiosulfate (STS) treatments on physicochemical characteristics of four cut lisianthus (*Eustoma grandiflorum*) cultivars were investigated. Cut lisianthus flowers were pulse-treated with Silver Thiosulfate at 0, 0.5, 1 and 2 mM and for 24 hrs at  $22 \pm 2$  °C. Experiment was conducted in completely randomized designs with factorial arrangement and seven replications. The results of experiment revealed that STS at all concentrations applied significantly ( $P > 0.05$ ) extended vase life of all cut lisianthus cultivars compared to control. No significant were found between STS concentrations in C1, C2 and C4 cultivars. However, in C3 cultivar, STS at 1 and 2 mM significantly increased vase life of flowers compared to 0.5 mM (Table 1). There were significant differences between cultivars in response to STS concentrations too. STS treated flowers at all concentrations maintained a higher relative fresh weight (RFW) in all cultivars. Solution uptake of STS treated flowers was more than control during whole experiment.