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Effect of Nano - silver on quality and vase life of Lilium cv. Tresor

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An experiment was conducted on the effect of Nano - silver on quality and vase life of Lilium cv. Tresor under Completely Randomized Design at the Department of Floriculture and Landscaping, Tamil Nadu Agricultural University, Coimbatore during the year 2011-12. Nano - silver (NS) particles are used in various applications as a potential antimicrobial agent. The objective of this study was to investigate the suitability of NS particles on post harvest vase life and quality of Asiatic hybrid Lilium cv. Tresor. Different concentrations of NS in the holding solutions along with deionized water as check were used for the experiment. The levels of NS concentrations used were at 25, 50 & 75 ppm alone and in combination with 2% Sucrose. The results indicated that 50 ppm NS + 2% Sucrose in the holding solution could increase bud opening and delayed the wilting (or) drooping of florets after treatment which was found superior than control treatment with deionized water. Moreover, 50 ppm NS + 2% Sucrose in the holding solution could significantly prolong the vase life of Lilium to 17.83 days, compared to control treatment (8.30 days). Thus 50 ppm of NS can be effectively used along with 2% Sucrose to prolong the post harvest life of Lilium cut flowers.

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