

Title Effect of hydroquinone pulsing treatment on vase life of cut rose
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Abstract

Cut roses cv. American Gala were purchased from a wholesale market of cut flower in Bangkok area. The flowers were selected for uniformity of size, color and free from any defects. After re-cutting the stem under water, the flowers were pulsed with deionized water (DW) or with 5 and 10 mM of hydroquinone for 6 hr. The flowers pulsed with DW were individually placed in vials with 10 ml of DW (control) or 10 ml of vase solution (250 mg L⁻¹ HQS + 4% sucrose). Cut roses pulsed with hydroquinone at both concentrations were individually placed in vials with 10 ml of vase solution (250 mg L⁻¹ HQS + 4% sucrose). All treated flowers stood in the climate controlled room at 20±2°C with 85-90% RH. Pulsing of cut rose with hydroquinone at both concentrations had no effect on the water uptake, weight loss, bud opening and vase life compared with the flowers pulsed with deionized water and placed in vase solution. However, it showed better results when compared with the flowers of control treatment. There was no significant difference in vase life of cut rose placed in vase solution that was about 7 days, while the vase life of the control was 5 days.