Title Effects of GA3 and BA treatments on quality of cut hybrid lilies

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Abstract

This experiment was carried out to investigate the effects of gibberellin and benzyl adenine pre-treatments on postharvest cut flower quality of two lily cultivars; Asiatic hybrid 'Navona' and L.A. hybrid 'Ceb Dazzle'. Lily stems were harvested when the first flower bud showed full color, then treated with growth regulator solutions including GA3 (25, 50 and 100 ppm) and BA (10, 25 and 50 ppm) for 24 hrs at 20°C. After the treatments, flowers were held in water at 20°C. In general, gibberellin treatments increased fresh weight, water absorption and inflorescence longevity. GA3 treatments at 50 and 100 ppm have been shown to be more effective in both cultivars (2.67 and 3.50 days vase life extension in 'Navona' and 2 and 3.66 days in 'Ceb Dazzle' were observed respectively compared to controls). Also BA at 10 ppm, improved vase life 1.67 days in 'Navona' and 1 day in 'Ceb Dazzle' but according to water absorption and fresh weight; there was no significant difference between BA treatments in comparison to controls.