

Title Effects of 1-MCP on postharvest life of cut *Dendrobium* Burana Jade inflorescences
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Citation Book of Abstracts. International Conference on Quality Management in Supply Chains of Ornamentals. 21-24 February, 2012. Golden Tulip Sovereign Hotel, Bangkok, Thailand.
Keywords cut-orchids; *Dendrobium*; 1-MCP; postharvest life

Abstract

Cut *Dendrobium* Burana Jade inflorescences harvested at a commercial maturity stage from orchid nursery nearby Silpakorn University were transported to our laboratory in the morning by car. Stems end were re-cut under tap-water to eliminate air bubble and given uniformity in peduncles length, then treated for 4 h at 25°C with 1-MCP at the concentrations of 0, 250, 500, 1000, 1500 and 2000 nL/L and then placed in sterile distilled water kept at 25°C to determine the vase life. The results shown that 1-MCP at all concentrations had no effect on vase life of cut *Dendrobium* Burana Jade inflorescences but all 1-MCP treatments delayed buds drop and open florets abscission. In control, buds drop and open florets abscised within 7 and 8 days, respectively, while inflorescences treated with 250 nL/L 1-MCP showed buds drop and flowers abscission within 14 and 11 days respectively. Moreover, 1-MCP at the concentrations of 500-2000 nL/L also was able to prevent flowers and buds abscission during vase life.