

Title Effects of gibberellic acid on the vase life of cut patumma (*Curcuma alismatifolia* Gagnep.)
'Chaing Mai' flowers

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Abstract

Cutflowers of Patumma (*Curcuma alismatifolia* Gagnep.) 'Chaing Mai' were held in 50-200 ppm gibberellic acid (GA₃) or distilled water (control) at 25°C with 75-80% relative humidity. GA₃ at 100 ppm increased vase life by four days compared to the control (10 days). Increasing the concentration to 150-200 ppm did not correspondingly extend vase life despite improvement in weight retention, absorption capacity and water conductivity of stem tissues. The vase life of the flower held in 150-200 ppm GA₃ was similar to that with 100 ppm GA₃. GA₃ did not generally affect respiration rate but significantly reduced ethylene production. At lower concentration of 50 ppm GA₃, responses of the flowers were comparable to the control.