

Thisis Title	Effect of GA ₃ and 1-MCP on Vase Life and Postharvest Quality of Patumma (<i>Curcma alismatifolia</i> Gagnep.) Cut Flower cv 'Chaing mai'.
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Abstract

Effect of GA₃ and 1-MCP on vase life and postharvest quality of Patumma (*Curcma alismatifolia* Gagnep.) Cut Flower cv 'Chaing mai' was studied. The study was divided into 3 experiments. In the first experiment , Patumma Flower holding with GA₃ at a concentration of 0, 50, 100,150 and 200 ppm at 25 °C 75-80 %RH . It was found that GA₃ at a concentration of 100,150 and 200 ppm had the longest vase life of 15 days. GA₃ had increased water uptake , water conductivity , Reducing sugar content and % fresh weight , but lower rate of respiration. In the second experiment , the effect of 1-MCP at a concentration of 0, 10, 100, 500 and 1,000 ppb at 25 °C 75-80 %RH . The results show that 1-MCP at a concentration of 10, 100 and 500 ppb had increased water uptake , water conductivity , % fresh weight and anthocyanidine content. It had longest vase life of 12 days . the third experiment , cut patumma flowers treated in GA₃ 50 ppm with 1-MCP 10, 100 and 500 ppb and GA₃ 150 ppm with 1-MCP 10, 100 and 500 ppb evaluate with GA₃ 150 ppm and 1-MCP 500 ppb at 25 °C 75-80 %RH. The results show that GA₃ 50 ppm with 1-MCP 100 and 500 ppb and GA₃ 150 ppm with 1-MCP 10, 100 and 500 ppb had the longest vase life and remain higher when compare to that control, 1-MCP and GA₃ .