

Effects of Paclobutrazol Treatments on Inflorescences Length of *Phalaenopsis*¹

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Abstract

Effect of spraying paclobutrazol with various concentrations before or after spiking on inflorescence length of *Phalaenopsis* was studied. Results indicated that the inflorescence length of *Phal.* Nobby's Amy was only 28.8 cm after applied 1.0 mL · L⁻¹ paclobutrazol twice before and after spiking, and 19.5 cm less (decreased 40%) than that of the control plants. Whereas inflorescence were almost not present inhibited when 0.25 mL · L⁻¹ paclobutrazol was applied after spiking, its only 0.3 cm shorter than that of the control plants (48.3 cm). Regardless of application concentrations, plants treated with paclobutrazol before spiking got average 51.8% flowering rate. It's only plants had paclobutrazol applied after spiking could present 100% flowering. The applicants could 100% flowering when treated with 1.0 mL · L⁻¹ paclobutrazol after spiking, the inflorescence length of these plants is 36.5 cm, and therefore have better proportion on the appearance of pot flower. In addition, flower size, flower number, and stalk numbers were not affected by treatments.

Key words: growth retardant, plant growth regulator, pot flower, PP₃₃₃, spike.

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