Title	Evaluation of tested vase solution compared to commercial vase solution on cut
	Dendrobium hybrids
Author	K. Obsuwan, W. Changpun A. Thongpukdee, K. Chanjirakul and C. Thepsithar
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; post harvest; vase life; vase solution

Abstract

Vase solution for cut orchids has been developed by replacing silver nitrate with other chemicals which is safety product for environment. The result from preliminaries experiment showed that vase solution contained 100 mg.L⁻¹ aluminum sulfate, 200 mg.L⁻¹ 8-hydroxyquinoline sulfate and 1.5 % sucrose can extend vase life of three different cut Dendrobium hybrids when compared with distilled water. This experiment was aimed to evaluate the quality of our vase solution compared with the commercial vase solution (Chrysal, Naarden, The Netherlands). Three cut Dendrobium hybrids namely Dendrobium Kao Sanan, Dendrobium Lovely Pink and Dendrobium Suree Peach were tested. The results showed that Dendrobium Kao Sanan and Dendrobium Lovely Pink have longer vase life in the tested vase solution than commercial vase solution while Dendrobium Suree Peach has shorter vase life in the tested solution than commercial vase solution. In Dendrobium Kao Sanan, Dendrobium Lovely Pink and Dendrobium Suree Peach vase life were extended to 14.8, 16.9 and 13.0 days respectively in tested vase solution. Whereas, cut Dendrobium inflorescences treated with chrysal solution had 13.5, 10.1 and 14.6 days of vase life respectively. However, there was no statistically different of vase life between the tested solution and commercial solution in Dendrobium Kao Sanan and Dendrobium Suree Peach but statistically different of vase life between the tested solution and commercial solution in Dendrobium Lovely Pink. These results suggested that our solution was able to improve quality and extended the vase life of cut Dendrobium as well as commercial solution