Title Effect of natural chemical floral preservatives on the vase life of *Dendrobium* Hybrid Sonia-17

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Abstract

Orchids belonging to the family orchidaceae are the most fascinating and beautiful of all flowers they are the integral parts of India's natural heritage. They constitute an order of royalty in the world of ornamental plants and they are of immense horticultural importance and play a very useful role to balance the forest ecosystem because of richness of the orchid's flora. The experiment was carried out in laboratory of experiment of horticulture, SHIATS, Allahabad during 2006-2007. The experiment was conducted in completely randomized design (CRD) with ten treatments replicated thrice. The effect of different concentration of chemicals with combination to find out the most suitable natural or chemical combination for prolonging the vase life of cut flower of Dendrobium. The chemicals like sucrose, coconut water, 8-HQC, silver nitrate, silver thiosulpahte, Aluminium sulpahte, potassium permanganate and distilled water. It was observed that maximum vase life (37.33 days), maximum flower diameter (8.14cm), maximum florets open at a time (7.30 number) and longest total blooming period (41.57) was recorded in treatment T_{10} 75 ppm 8-HQC + 75 ppm AgNO3 +2% sucrose. Therefore treatment T_{10} may be recommended as commercial use for enhancing the vase life and quality of cut Dendrobium hybrid Sonia-17.