
Effect of different antimicrobial on vase life of cut carnation (*Dianthus caryophyllus*)

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Abstract Carnation is a very important cut flower. One of the most important problem in cut carnation is bacterial sensitivity and stem end blockage that caused to decreasing the vase life. In order to study on effect of NaOCl (100, 200 and 400 mg L⁻¹), Ephedra extract (10, 20 and 40% (, essential oil of Artemisia (1, 2 and 4% (and control (distilled water), a study carried out with 10 treatments, 3 replications and 30 plots. Traits such as: water uptake, loss of fresh weight, percent of dry matter, total chlorophyll, a and b chlorophyll, leaf protein content, petal carotenoid content, lipid peroxidation, SOD and POD activity and bacterial population in vase solution and stem end, were measured. Results showed that 100 mg L⁻¹ NaOCl and 10% essential oil of Ephedra caused to increase of vase life, water uptake, percent of dry matter, fresh weight, leaf chlorophyll content, enzymes activity and decreasing of bacterial population.

Keywords : Keywords: Ephedra extrac, Sodium hypochlorite, Essential oil of Artemisia, Vase life, Carnation.

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