

The effect of thyme essential oil and ethanol on vase life of cut alstroemeria (Alstroemeria spp.)

milad ghorbanali nazarpour*,

Abstract The this study the effect of thyme essential oil and ethanol in delaying aging Alstroemeria cut flowers were evaluated in a factorial design. Thyme essential oil at concentrations of 50, 100 and 200 mg of ethanol in concentrations of 10, 20 and 40 cc was used. Traits such as: vase life solution uptake, reduce the degree of °Brix, the flower opening index loss of fresh weight, dry weight, the population of bacteria in stems and vase solution, carotenoids and chlorophyll a, b and total, were measured. In this study, treatment with 200 mg of thyme essential oil and ethanol, most in vase life and have water absorption and dry matter and the opening goal in a relatively acceptable conditions. Without thyme essential oil 40 ml ethanol and 50 mg of thyme essential oil 20 ml ethanol had the least amount of weight. In terms of chlorophyll best treatment for the treatment of essential oil of thyme 200 mg of ethanol and 10 cc which had the most amount of goals in the opening 50 mg treatment thyme essential oil and ethanol had the highest amount of carotenoids. **Key words:** Alstroemeria, Vase life, thyme essential oil, ethanol.

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