

EFFECT OF DIFFERENT FLORAL PRESERVATIVES SOLUTIONS ON POST HARVEST QUALITY OF TUBEROSE (*POLIANTHES TUBEROSA* L.) CV. DOUBLE

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Abstract: The present study was conducted during 2013-14 to prolong the post-harvest life of tuberose using single or combined holding solutions. Twelve holding solutions, viz. T₁: 300ppm Al₂SO₄ T₂: 100ppm CoCl₂ T₃: 5%Sucrose + 300ppm Al₂SO₄ T₄: 5%Sucrose + 250ppm Citric Acid T₅: 5%Sucrose + 25 ppm KMnO₄ T₆: 5%Sucrose +100ppm CoCl₂ T₇: 200ppm Citric Acid T₈: 5%Sucrose +200ppm Citric Acid, T₉: 5%Sucrose + Calcium hypochlorite(Ca(ClO)₂), T₁₀: 5%Sucrose + 200ppm 8HQC, T₁₁: 5%Sucrose + 200ppm 8HQC + GA₃ 100ppm and T₁₂: Control (Deionized water) were used in a completely randomized block design with 3 replications. The results showed that holding solutions in single or in combined form significantly affected the post harvest quality of tuberose. The maximum vase life, floret size, vase life of individual flower, floret opening percentage and solution absorption by spikes were obtained with T₄ (5%Sucrose + 250ppm Citric Acid) while maximum days to opening of basal florets and number of florets open at senescence of basal floret were obtained when spikes were held in containing the solutions (5%Sucrose + 300ppm Al₂SO₄) under the treatment T₃.

Keywords: Pulsing solution, Holding solution, Floral preservatives solutions, Tuberose, Vase life

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