

Title Relationship between electrolyte leakage and vase life of cut *Anthurium* Flowers cv. 'Fire' and 'Midori'

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Abstract

Relationship between electrolyte leakage and vase life of cut *Anthurium* flowers CV. 'Fire' and 'Midori' was investigated. Electrolyte leakage of both the cut *Anthurium* flowers increased during the vase period at $21 \pm 2^{\circ}\text{C}$. It was revealed that 'Fire' flowers had higher increasing rate in percentage of electrolyte leakage than 'Midori' flowers. By means of Least Squares Method, however, its change could be described with the same pattern by one mathematical model. It was found that the maximum value of electrolyte leakage of both cultivars was 167.342 ± 9.251 %. Besides, the change of electrolyte leakage was closely related to the vase life of flowers. Therefore, this model could predict the vase life of cut *Anthurium* flowers cv. 'Fire' and 'Midori' more accurately in which the coefficient of determinations (R^2) were 0.974 and 0.995, respectively.