

## RINGKASAN

Krisan merupakan salah satu jenis tanaman hias bunga yang telah lama dikenal dan banyak disukai masyarakat serta mempunyai nilai ekonomi yang tinggi. *Pulsing* merupakan perlakuan pengawetan bunga segera setelah panen untuk memberi bekal sumber nutrisi pada bunga dan melindungi tangkai bunga dari serangan mikroorganisme penyebab penyumbatan pembuluh pada tangkai bunga. Penelitian ini bertujuan 1). Mengetahui pengaruh komposisi larutan *pulsing* yang tepat terhadap kesegaran bunga potong krisan, 2). Mengetahui pengaruh lamanya waktu perendaman *pulsing* yang tepat untuk memperpanjang kesegaran bunga potong krisan, 3). Mendapatkan komposisi larutan *pulsing* dan lamanya waktu perendaman terbaik dalam upaya memperpanjang masa kesegaran bunga potong krisan.

Penelitian dilaksanakan di Laboratorium Agronomi Fakultas Pertanian, Universitas Jenderal Soedirman pada bulan Juni sampai Juli 2015. Rancangan percobaan yang digunakan adalah rancangan acak lengkap (RAL) dengan 3 ulangan. Faktor pertama yaitu komposisi larutan *pulsing* yaitu air 300 ml (tanpa penambahan bahan kimia); gula pasir 10 % + Asam sitrat 150 ppm + 2 ml NaOCl 5,25 % + air sampai 300 ml; gula pasir 15 % + Asam sitrat 150 ppm + 2 ml NaOCl 5,25 % air sampai 300 ml; gula pasir 20 % + Asam sitrat 150 ppm + 2 ml NaOCl 5,25 % + air sampai 300 ml. Faktor kedua yaitu lama waktu perendaman larutan *pulsing* terdiri dari 4 taraf yaitu: waktu perendaman 2 jam, 4 jam, 6 jam dan 8 jam. Variabel yang diamati adalah masa kesegaran, total larutan terserap, diameter bunga, warna bunga, saat bunga layu, dan persentase bunga layu.

Hasil penelitian menunjukkan komposisi larutan *pulsing* dengan penambahan larutan gula 10% + asam sitrat 150 ppm + 2 ml NaOCl 5,25 % merupakan penggunaan gula yang efisien dan mampu memperpanjang masa kesegaran bunga potong krisan sampai 29,75 hari, perlakuan waktu perendaman 8 jam dengan larutan *pulsing* memberikan pengaruh nyata terhadap masa kesegaran bunga potong yaitu mencapai 30 hari, perlakuan interaksi komposisi larutan *pulsing* dan waktu perendaman tidak memberikan pengaruh nyata terhadap semua variabel.

Kata kunci : bunga krisan, *pulsing*, masa kesegaran

## SUMMARY

*Chrysanthemum is one type of ornamental plants flower has long been known and much appreciated by the public and has a high economic value. Pulsing is preservation treatment immediately after harvest to give the provision a source of nutrients to the flowers and protect against microorganisms that cause blockage of veins in the flower stalk. The research purposes are 1). To know the best effect of exact pulsing composition to freshness of cut chrysanthemum flowers 2). To know the best effect of soaking duration of the pulsing extract to freshness of cut chrysanthemum flowers, 3). To get the best composition and soaking duration of pulsing to prolong the freshness of cut chrysanthemum flowers.*

*The research was conducted at the Laboratory of Agronomy, Faculty of Agriculture, University of Jenderal Soedirman from June to July 2015. The experimental used was a completely randomized design (CRD) with three replications. The first factor is the composition of pulsing solutions 300 ml water (without addition of chemicals); sugar 10% + 150 ppm citric acid + 2 ml NaOCl 5.25% + water up to 300 ml; 15% sugar + 150 ppm citric acid + 2 ml NaOCl 5.25% + water up to 300 ml; 20% sugar + 150 ppm citric acid + 2 ml NaOCl 5.25% + water up to 300 ml. The second factor is the soaking duration of pulsing solution which consists of 4 levels, namely: soaking time 2 hours, 4 hours, 6 hours and 8 hours. The variables measured were the freshness period, total solution absorbed, flower diameter, flower color, when flowers wilt, and wilted flowers percentage.*

*The results showed composition of pulsing solutions with the addition of sugar solution 10% + 150 ppm citric acid + 2 ml NaOCl 5.25% is an efficient use of sugar and capable to prolong the vase life of chrysanthemum cut flower until 29.75 days, 8 hours soaking time treatment with a pulsing solution shows the effect to vase life of chrysanthemum cut flowers until 30 days. Treatment interaction composition pulsing extract and soaking time does not show the effect of all the variables*

*Keyword: chrysanthemum, pulsing, vase life*