

RINGKASAN

Penanganan pasca panen bunga potong sangat perlu diperhatikan untuk memperpanjang kesegaran bunga potong. Penambahan sukrosa akan membuat bunga segar lebih lama namun kelemahannya akan merangsang pertumbuhan bakteri. Oleh sebab itu, dengan ditambah asam sitrat dapat menghambat pertumbuhan mikroba pembusuk dan patogen dan sebagai penurun pH untuk memudahkan larutan diserap oleh tangkai bunga. Penelitian bertujuan untuk mengetahui pengaruh konsentrasi larutan, lama perendaman larutan serta interaksi konsentrasi larutan dan lama perendaman terhadap masa kesegaran bunga potong mawar.

Penelitian dilaksanakan di Laboratorium Agronomi dan Hortikultura, Fakultas Pertanian, Universitas Jenderal Soedirman mulai 23 Februari sampai 10 Maret 2017. Penelitian ini menggunakan RAKL (Rancangan Acak Kelompok Lengkap) yang memiliki 16 kombinasi perlakuan dan 3 kali ulangan. Faktor pertama variasi larutan *pulsing* dengan 4 taraf yaitu kontrol (direndam dalam air); larutan 3% sukrosa + 300 ppm asam sitrat + air; larutan 6% sukrosa + 300 ppm asam sitrat + air; larutan 9% sukrosa + 300 ppm asam sitrat + air. Faktor kedua yaitu lama perendaman larutan *pulsing* terdiri dari 4 taraf yaitu: (lama perendaman 2 jam, 4 jam, 6 jam dan 8 jam). Variabel yang diamati adalah masa kesegaran bunga, volume larutan terserap, perubahan warna bunga, persentase kemekaran bunga, persentase bunga layu, dan saat bunga.

Hasil penelitian menunjukkan pemberian konsentrasi larutan 6% sukrosa + 300 ppm asam sitrat + air dapat meningkatkan masa kesegaran bunga hingga 10,125 hari, meningkatkan persentase kemekaran bunga sebesar 54,716%, meminimalisir persentase bunga layu sebesar 11,9%, dan menghambat saat bunga layu yaitu 8 hari. Lama perendama bunga selama 4 jam mampu meningkatkan persentase kemekaran bunga sebesar 53,06%. Konsentrasi larutan 6% sukrosa + 300 ppm asam sitrat + air dengan lama perendaman selama 4 jam dapat meningkatkan masa kesegaran bunga sebesar 12,667 hari. Konsentrasi larutan 6% sukrosa + 300 ppm asam sitrat + air dengan lama perendaman 8 jam dapat meningkatkan persentase kemekaran bunga sebesar 57,16% dan menghambat saat bunga layu sebesar 9,667 hari.

SUMMARY

Post-harvest handling of cut flowers is worth noting to extend the freshness of cut flowers. The addition of sucrose will make fresh flowers longer but its weakness will stimulate bacterial growth. Therefore, with citric acid plus can inhibit the growth of spoilage and pathogenic microbes and as a pH-lowering to facilitate the solution absorbed by the flower stalk. The aim of this research is to know the effect of solution concentration, the duration of soaking of solution as well as the interaction of the concentration of the solution and the duration of immersion to the freshness of the rose cut flowers.

The research was conducted at Agronomy and Horticulture Laboratory, Faculty of Agriculture, General Soedirman University from 23 February to 10 March 2017. This study uses completely randomized block design which has 16 treatment combinations and 3 replications. The first factor was variation of pulsing solution with 4 levels ie control (soaked in water); Solution of 3% sucrose + 300 ppm citric acid + water; Solution 6% sucrose + 300 ppm citric acid + water; Solution of 9% sucrose + 300 ppm citric acid + water. The second factor is the length of submersion pulsing solution consists of 4 levels, namely: (immersion time 2 hours, 4 hours, 6 hours and 8 hours). The observed variables were the period of freshness of interest, the volume of absorbed solution, the flower color change, the percentage of flowers flower, the percentage of the withered flowers, and when the flower withered.

The results showed that the concentration of solution of 6% sucrose + 300 ppm citric acid + water can increase the freshness of the flower until 10,125 days, increase the percentage of interest flower by 54,716%, minimize the percentage of wilting interest by 11,9%, and hinder the flower 8 day. The duration of flower for 4 hours can increase the percentage of interest flower by 53.06%. Concentration of solution of 6% sucrose + 300 ppm citric acid + water with soaking time for 4 hours can increase the freshness of interest by 12,667 days. Concentration of solution of 6% sucrose + 300 ppm citric acid + water with soaking period of 8 hours can increase the percentage of flowers flower by 57,16% and hinder when flower 9,667 day.