

SITI AL IMAMAH NRP. 14.03.1.1.1.00087. Pengaruh Perlakuan Panjang Stek dan Lama Perendaman Air Kelapa (ZPT) terhadap Pertumbuhan Tanaman Binahong (*Anredera cordifolia* (Tenore) Steenis). Dibawah bimbingan **Dr. Ir. R. A. Sidqi Zaed ZM, MS.** dan **Dr. Achmad Amzeri, SP., MP.**

ABSTRAK

Tanaman binahong merupakan salah satu jenis tanaman dalam family *Bacellaceae*. Manfaat binahong sangat besar dalam dunia pengobatan, yaitu dapat menyembuhkan luka bakar, luka setelah operasi, rematik, asam urat, pembengkakan jantung, tifus, stroke, dan lain-lain. Salah satu kandungan yang terdapat pada daun binahong adalah senyawa flavonoid. Penelitian ini bertujuan untuk mengetahui pengaruh perbedaan panjang stek dan lama perendaman ZPT air kelapa serta interaksi antara kedua perlakuan terhadap pertumbuhan tanaman binahong. Metode penelitian yang digunakan adalah Rancangan Acak Kelompok (RAK) Faktorial. Pengelompokan berdasarkan asal stek, yaitu K1= pangkal, K2= tengah, dan K3= ujung. Adapun faktor perlakuan ada 2, yaitu: 1) P= panjang stek, meliputi: P1= panjang 10 cm, P2= 15 cm, dan P3= 20 cm, 2) R= lama perendaman, meliputi: R1= tanpa perendaman, R2= direndam 3 jam, dan R3= direndam 4 jam. Uji lanjut yang digunakan adalah Beda Jarak Nyata Duncan (BJND) taraf 5%. Berdasarkan hasil analisis sidik ragam dapat diketahui bahwa perlakuan panjang stek memberikan pengaruh nyata pada parameter tinggi tanaman, jumlah daun, jumlah cabang, dan berat kering dan tidak berbeda nyata pada parameter waktu muncul tunas dan berat basah tanaman binahong. Sedangkan perlakuan lama perendaman stek pada ZPT air kelapa berpengaruh nyata pada semua parameter pengamatan pertumbuhan tanaman binahong kecuali waktu muncul tunas. Interaksi antara kedua perlakuan berpengaruh nyata pada parameter tinggi tanaman, jumlah daun, jumlah cabang, dan berat kering tanaman binahong serta kombinasi P1R1 dan P2R1 cenderung menghasilkan rerata tertinggi.

Kata Kunci: Binahong, Stek, ZPT.

SITI AL IMAMAH NRP. 14.03.1.1.1.00087. The Effect of Treatment The Length of Stem Cuttings and The Length of The Submersion Plant Growth Regulator (ZPT) of Coconut Water for The Growth of Binahong (*Anredera cordifolia* (Tenore) Steenis). Advisor: **Dr. Ir. R. A. Sidqi Zaed ZM, MS.** and **Dr. Achmad Amzeri, SP., MP.**

ABSTRACT

Binahong is a kind of plant in a family Bacellaceae. The benefit of binahong is very big in the world of medical treatment, those are can cure the burn injuries, the injury after operation, rheumatism. Uric acid, cardiomyopathy, typhus, stroke, and etc. the one of the containing of binahong is compound of flavonoid. The aim of this research is to know the influence of differences between the length of stem cuttings and the length of the submersion plant growth regulator (ZPT) of coconut water and also the interaction both of the treatment for the growth of binahong. The research methodology is random group design (RGD) factorial. The group based on the beginning of the cuttings. Those are K1= Base, K2= middle, and K3= tip. There are 2 treatment factors, is: 1) P= the length of cuttings, covered: P1= long 10 cm, P2= 15 cm, and P3= 20 cm, 2) R= the length of the submersion, covered: R1= without submersion, R2= submerged for 3 hours, and R3= submerged for 4 hours. The next experiment that used is Difference of Real Distance Duncan (BJND) 5% level. Based on the result of analysis investigation manner can be known that the treatment of the length of cuttings give the real effect to the parameter of high plant, sum leaves, sum branches, and heavy dry and also is not real difference for parameter when bud appeared and heavy wet of binahong. While the treatment of the length of the submersion plant growth regulator (ZPT) of coconut water is real influence to all monitoring binahong parameters except when bud appeared. The interaction both of the treatments influence really to the parameter of high plant, sum leaves, sum branches, and heavy dry of binahong and the combination P1R1 and P2R1 inclined produce the high average to the large part of monitoring parameter.

Keyword: Binahong, Cuttings, ZPT.