ABSTRAK

Tanaman murbei khususnya *Morus alba* (L) memiliki prospek yang sangat bagus di Indonesia karena tanaman ini dapat berbuah sepanjang tahun, serta karena dapat menjadi pakan ulat sutra dan juga obat. Penelitian dilakukan untuk mengethui pengaruh dari jenis dan lama perendaman ZPT alami terhadap pertumbuhan stek tanaman murbei. Penelitan dilakukan dengan Rancangan Acak Lengkap (RAL). Faktor pertama adalah jenis ZPT alami (V) 3 taraf yaitu bawang merah, air kelapa muda, dan lidah buaya dan faktor kedua adalah lama perendaman (Z) 3 taraf yaitu 1 jam, 2 jam, dan 3 jam. Data dianalisis dengan Annova 5% dan 1%, dan jika adap berpengaruh maka dilakukan uji beda DMRT 5%. Data diambil setelah stek diaklimatisasi dan berdaun minimal 8 helai. Hasil penelitian menunjukan stek tanaman murbei berbeda secara signifikan pada perlakuan jenis ZPT air kelapa muda dan lama perendaman 1 jam yang berpengaruh secara siginifikan pada panjang tunas, jumlah akar, dan jumlah daun, Sedangkan terhadap panjang akar, daya tumbuh, serta bibit normal dan abnormal tidak memberikan pengaruh signifikan. Jenis ZPT alami (V) air kelapa muda adalah jenis ZPT alami terbaik dimana perlakuan berpengaruh secara signifikan pada panjang tunas, jumlah akar, jumlah daun,panjang akar, serta bibit normal dan abnormal, Sedangkan terhadap daya tumbuh tidak memberikan pengaruh signifikan. Lama perendaman (Z) 1 jam adalah lama perendaman yang terbaik dimana perlakuan berpengaruh secara signifikan pada panjang tunas, jumlah akar, jumlah daun,panjang akar, serta bibit normal dan abnormal, Sedangkan terhadap daya tumbuh tidak memberikan pengaruh signifikan.

Kata kunci: *Morus alba* L, ZPT alami, Lama Perendaman

ABSTRACT

Mulberry plants, especially *Morus alba* (L), have very good prospects in Indonesia because these plants can bear fruit all year round, and can be used as food for silkworms and also as medicine. This research was conducted to determined the effect of the type and soaking time of natural ZPT on the growth of mulberry plant cuttings. The research have conducted with a Completely Randomized Design (CRD). The first factor was the type of natural ZPT (V) at 3 types, those were shallots, young coconut water, and aloe vera and the second factor is the immersion time (Z) at 3 levels, those are 1 hour, 2 hours and 3 hours. Data were analyzed with 5% and 1% Annova, and if there was an effect, data would be continued with 5% DMRT different test. Data was taken after acclimatization and the cutting have at least 8 leaves. The results showed that mulberry plant cuttings different significantly in treatment of young coconut water ZPT types and 1 hour soaking time which had a significant effect on shoot length, number of roots, and number of leaves. Meanwhile, the root length, growth precentage, normal and abnormal seedlings did not have a significant effect. The natural ZPT type (V) of young coconut water is the best natural ZPT type where the treatment had a significant effect on shoot length, number of roots, number of leaves, root length, and normal and abnormal seedlings, while it had no significant effect on growth precentage. Soaking time (Z) of 1 hour is the best soaking time where the treatment had a significant effect on shoot length, number of roots, number of leaves, root length, and normal and abnormal seedlings, while it has no significant effect on growth precentage.

Keyword : Morus alba L, natural ZPT, immersion time