

## PENGARUH JENIS MEDIA DAN MIKORIZA TERHADAP KEBERHASILAN AKLIMATISASI STEK PUCUK *Shorea platyclados* di PERSEMAIAN PT. SARI BUMI KUSUMA, KALIMANTAN TENGAH

### INTISARI

Pembiakan vegetatif menjadi faktor penting dalam program penanaman *S. platyclados* (Famili Dipterocarpaceae) karena pembiakan generatif terhambat oleh adanya periodisasi pembunga 4-5 tahun dan bijinya bersifat *recalcitrant*. Namun pembiakan vegetatif *S. platyclados* terkendala oleh persen aklimatisasi yang rendah. Penggunaan media yang baik dan pemanfaatan mikoriza diharapkan dapat meningkatkan keberhasilan pembiakan vegetatif. Penelitian ini bertujuan untuk mengetahui pengaruh jenis media dan penambahan ektomikoriza lokal terhadap proses aklimatisasi dan pertumbuhan stek pucuk *S. platyclados*.

Penelitian menggunakan Rancangan Acak Lengkap (*Completely Randomized Design*) dengan perlakuan yang diujikan adalah 3 jenis media yaitu : (M1) *top soil*; (M2) *top soil*:serbuk kayu lapuk 1:1; dan (M3) *top soil* : serbuk kayu lapuk: kompos 1:1:1 dan perlakuan 3 jenis jamur yaitu J0: Tanpa mikoriza, J1: *Scleroderma* sp., dan J2: *Laccaria* sp.. Penelitian menggunakan 9 kombinasi perlakuan yang diulang sebanyak 5 kali (terdapat 45 semai). Pengamatan dilakukan setiap 2 minggu sekali selama 2,5 bulan terhadap tinggi dan diameter stek pucuk. Pada akhir pengamatan dihitung persen hidup, berat akar dan persentase infeksi mikoriza. Data diolah menggunakan Analisis Varians dengan bantuan *Software* SPSS 16 dan Uji Lanjut *Tukey* untuk mengetahui perlakuan yang berbeda nyata

Penggunaan media campuran *top soil* + serbuk kayu lapuk (M2) secara nyata meningkatkan persen hidup dan pertumbuhan tinggi. Inokulasi jamur *Laccaria* sp. (J2) meningkatkan persen hidup, pertumbuhan tinggi dan diameter yang secara nyata lebih tinggi dari perlakuan yang lain. Interaksi antara media dan jamur mikoriza tidak memberikan pengaruh yang berbeda nyata dalam proses aklimatisasi dan pertumbuhan stek pucuk *S. platyclados*.

Kata kunci : *S. platyclados*, aklimatisasi, media, jamur ektomikoriza

**THE INFLUENCE OF MEDIA AND MYCORRHIZA ON  
ACCLIMATIZATION OF *Shorea platyclados* SHOOT CUTTING IN PT  
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**ABSTRACT**

Vegetative propagation becomes an important factor in the plantation of *S. platyclados* (Family of Dipterocarpaceae), because the generative propagation is impeded by the 4-5 year flowering period and the recalcitrant seed characteristic. However, the vegetative propagation of *S. platyclados* is constrained by low acclimatization percentage. The use of proper media and mycorrhizae may increase the success of vegetative propagation. This research aimed to know the effect of media and local ectomycorrhizal application on the acclimatization process and growth of *S. platyclados* shoot cutting.

This research used Completely Randomized Design with the treatments were 3 types of media which were (M1) top soil, (M2) top soil : wood dust 1: 1 and (M3) top soil : wood dust : compost : 1 : 1: 1 and the treatment of 3 mycorrhizas which were (J0) without mycorrhiza, (J1) *Scleroderma sp.* and (J2) *Laccaria sp.* This research used 9 combinations of treatments with 5 replications (total samples were 45 seedlings). The observation was done once in 2 weeks for 2.5 months. In the final observation the survival percentage, root weight, and percentage of mycorrhizal infection were measured. The data was analyzed by Variance Analysis and Tukey Advanced Test to know the significant difference of treatments with SPSS 16 Software.

The use of top soil and wood dust (M2) increased significantly the survival percentage and the growth of shoot cutting. Inoculation of *Laccaria sp.* (J2) increased significantly the survival percentage and the growth of height as well as diameter of *S. platyclados* shoot cutting. The interaction between growth medium and ectomycorrhizal application had no significant effect on acclimatization process and growth of *S. platyclados* shoot cutting.

**Keywords:** *S. platyclados*, acclimatization, media, ectomycorrhiza