

## **ABSTRAK**

### **PENGARUH JENIS PERENDAMAN TERHADAP PERKECAMBAHAN BENIH BALSA (*Ochroma bicolor* Rowlee).**

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Balsa merupakan salah satu jenis tanaman penghasil kayu produktif sehingga dapat untuk dibudidayakan. Pada saat perbanyakan tanaman balsa mengalami suatu kendala yaitu benih balsa termasuk yang sulit berkecambah disebabkan bukan oleh faktor bawaan dari induknya melainkan oleh faktor eksternal. Penelitian ini bertujuan untuk mengetahui pengaruh jenis perendaman terhadap perkecambahan benih balsa dan mendapatkan jenis perendaman yang berpengaruh paling baik terhadap perkecambahan benih balsa. Percobaan penelitian ini dilaksanakan di *Screen house* pada bulan Juni hingga Agustus 2022. Menggunakan Rancangan Acak Kelompok (RAK) dengan 10 perlakuan yaitu perendaman benih dalam suhu air 40°C, 60°C, 80°C. Perendaman benih dalam larutan Asam giberelin (GA3) 60 ppm, 80 ppm, 100 ppm. Perendaman benih dalam larutan *Trichoderma harzianum* 1,5 g/L, 3 g/L, 4,5 g/L. Tiap perlakuan diulang sebanyak 3 kali dengan menggunakan analisis sidik ragam dan dilanjutkan dengan menggunakan uji Duncan taraf 5%. Hasil penelitian menunjukkan bahwa perendaman berpengaruh terhadap daya kecambah dan kecepatan berkecambah, sedangkan untuk panjang akar, panjang plumula, dan nisbah pupus akar tidak berpengaruh nyata untuk perendaman benih dalam suhu air awal 60°C memberikan pengaruh paling baik terhadap perkecambahan benih balsa (*Ochroma bicolor* Rowlee).

Kata kunci: Asam giberelin, Benih balsa, Air, *Trichoderma harzianum*.

## **ABSTRACT**

### **THE INFLUENCE OF TYPE OF SOKING ON BALSA SEED GROWTH (*Ochroma bicolor* Rowlee).**

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Balsa is a productive wood-producing plant that can be cultivated. At the time of propagation, balsa plants experienced an obstacle, namely balsa seeds, including those that were difficult to germinate, were caused not by intrinsic factors from the parents but by external factors. This study aims to determine the effect of the type of soaking on balsa seed germination and get the type of immersion that has the best effect on the germination of balsa seeds. This research experiment was carried out in *Screen house* from June to August 2022. It was using a Randomized Block Design (RBD) with 10 treatments, namely soaking the seeds in water temperatures 40°C, 60°C, 80°C. Soaking the seeds in a solution of gibberellins (GA3) 60 ppm, 80 ppm, 100 ppm. Soaking the seeds in the solution *Trichoderma harzianum* 1.5g/L, 3g/L, 4.5g/L. Each treatment was repeated 3 times using analysis of variance and continued using Duncan's test at 5%. The results showed that immersion had an effect on germination rate and germination rate, whereas for root length, plumule length, and root decay ratio it had no significant effect for seed immersion in an initial water temperature of 60°C giving the best effect on balsa seed germination (*Ochroma bicolor* Rowlee).

Keywords: Balsa seed, Gibberellin acid, *Trichoderma harzianum*, Water.