

## **Pengaruh Media dan Pupuk NPK terhadap Pertumbuhan Semai Balsa (*Ochroma bicolor*) Umur 3,5 Bulan**

Oleh:

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### **INTISARI**

Balsa (*Ochroma bicolor*) merupakan tanaman *fast growing species* yang memiliki nilai ekonomi tinggi dan dapat menggantikan sebagian fungsi dari sengon. Informasi budidaya tanaman balsa masih terbatas, oleh karena itu tujuan penelitian ini adalah untuk mengetahui pengaruh media dan dosis pupuk NPK terhadap pertumbuhan semai balsa selama 3,5 bulan di *glasshouse*.

Rancangan penelitian yang digunakan adalah RCBD (*Randomized Complete Block Design*) dengan 3 blok sebagai ulangan. Terdapat dua perlakuan yaitu komposisi media (tanah : arang sekam : kompos: 1:1:1; 2:1:0; 2:1:1) dan dosis pupuk NPK (0; 2.5; 5; 7.5 g/l). Parameter yang diamati, yaitu tinggi dan diameter semai, jumlah daun, dan biomassa semai.

Hasil penelitian menunjukkan bahwa perlakuan komposisi media berbeda nyata terhadap tinggi, diameter, biomassa daun, biomassa batang dan biomassa total namun tidak berbeda nyata terhadap biomassa akar. Perlakuan dosis pupuk NPK berbeda nyata terhadap tinggi, diameter, biomassa daun dan biomassa total namun tidak berbeda nyata terhadap biomassa batang dan biomassa akar. Interaksi kedua perlakuan tidak berbeda nyata terhadap seluruh parameter. Semai pada komposisi media 2:1:1 memiliki nilai pertumbuhan yang tertinggi diduga karena media memiliki kandungan nutrisi yang lebih banyak. Dosis pupuk 5 g NPK/l mengindikasikan dosis pupuk yang optimal untuk pertumbuhan semai balsa sampai umur 3,5 bulan.

Kata kunci: Balsa, media sapih, pupuk NPK, pertumbuhan.

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## **Effects of Media and NPK Fertilizer on the Growth of *Ochroma bicolor* Seedlings At Age 3.5 Months**

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### **ABSTRACT**

Balsa (*Ochroma bicolor*) is a fast-growing tree species that has high economic value and can be replace some of the functions on species sengon (*Falcataria moluccana*). Information on the composition of medium and the dose of NPK fertilizer for growing *O. bicolor* seedlings is still limited. Therefore, this study aimed to determine the effect of the medium and dose of NPK fertilizer on the growth of *O. bicolor* seedlings at age 3,5 months in the glasshouse.

The experiment was applied a randomized complete block design with 3 blocks as replication. Two treatments of experiment were applied consisting of planting media composition (top soil : husk charcoal : compost: 1:1:1; 2:1:0; 2:1:1) and dose of NPK fertilizer (0; 2.5; 5; 7.5 g/l). The parameters observed were seedling height, stem diameter, number of leaves, and the seedling biomass.

The results showed that the media composition of planting had significant differences on the seedling height, stem diameter, leaf stem, and total biomass, but had no differences on the root biomass. The dose of NPK fertilizer had significant differences on the seedling height, stem diameter, leaf and total biomass but had no differences on stem and root biomass. There was no interaction of the treatments were observed on all parameters. The seedlings grown on the composition of planting media 2:1:1 had the highest growth. It is likely that the media containing more nutrient as top soil provides better grow than other media of planting. Addition of 5 g NPK/l indicates the optimum dose of seedling growth at age 3,5 months.

Keyword: *Ochroma bicolor*, media composition, NPK fertilizer, plant growth.

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