

**PERTUMBUHAN BIBIT TANAMAN KAKAO (*Theobroma cacao* L.)  
PADA BERBAGAI KOMPOSISI MEDIA TANAM DAN  
DOSIS PUPUK NPK**

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**ABSTRAK**

Pertumbuhan bibit tanaman kakao dipengaruhi oleh ketersediaan unsur hara dan komposisi media tanam. Penelitian bertujuan untuk menentukan komposisi media tanam dan dosis pupuk NPK yang tepat untuk pertumbuhan bibit tanaman kakao. Penelitian ini menggunakan Rancangan Acak Kelompok Lengkap dengan 2 faktor dan 1 kontrol. Faktor pertama adalah komposisi media tanam (tanah : kompos : arang sekam) perbandingan 1 : 1 : 1, 1 : 1 : 2, dan 2 : 1 : 1. Faktor kedua adalah dosis pupuk NPK 5 g/tanaman, 10 g/tanaman, dan 15 g/tanaman. Kontrol dengan media tanam tanah dan pupuk kandang (1 : 1) dengan pemberian pupuk Urea 2 g/tanaman dan pupuk TSP 2 g/tanaman. Hasil penelitian menunjukkan ada interaksi antara perlakuan komposisi media tanam dan dosis pupuk NPK terhadap tinggi tanaman 8 MST dan 12 MST, diameter batang 4 MST, 8 MST, dan 12 MST, serta volume akar. Perlakuan komposisi media tanam perbandingan 1 : 1 : 1 dan perbandingan 1 : 1 : 2 lebih baik pada jumlah daun umur 8 MST dan 12 MST. Perlakuan dosis pupuk NPK 5 dan 10 g/tanaman lebih baik tanaman pada persentase bibit tumbuh. Terdapat perbedaan antara kombinasi perlakuan dengan kontrol terhadap persentase tumbuh bibit dan jumlah daun.

**Kata kunci** : Bibit, Kakao, Media Tanam, Pupuk NPK

**GROWTH OF CACAO PLANT SEEDLINGS (*Theobroma cacao* L.)  
IN VARIOUS PLANTING MEDIA COMPOSITIONS AND  
NPK FERTILIZER DOSES**

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**ABSTRACT**

The growth of cocoa seedlings is influenced by the availability of nutrients and the composition of the planting medium. The study aims to determine the composition of the planting medium and the appropriate dose of NPK fertilizer for the growth of cocoa seedlings. This study used a a Randomized Complete Block Design with 2 factors and 1 control. The first factor is the composition of the planting medium (soil: compost: rice husk charcoal) in the ratio of 1: 1: 1, 1: 1: 2, and 2: 1: 1. The second factor is the dose of NPK fertilizer 5 g/plant, 10 g/plant, and 15 g/plant. Control with soil and manure planting medium (1: 1) with the provision of Urea fertilizer 2 g/plant and TSP fertilizer 2 g/plant. The results showed an interaction between the treatment of planting medium composition and NPK fertilizer dose on plant height 8 and 12 weeks post-planting, stem diameter 4, 8, and 12 weeks post-planting, and root volume. The treatment of planting media composition with a ratio of 1:1:1 and a ratio of 1:1:2 was better in the number of leaves at 8 and 12 weeks post-planting. The treatment of NPK fertilizer doses of 5 and 10 g/plant was better in terms of the percentage of seedling growth. There was a difference between the combination of treatments and the control on the percentage of seedling growth and the number of leaves.

**Keywords :** Seedlings, Cocoa, Planting Media, NPK Fertilizer