

## ABSTRAK

**Husen Abdul Rahman Malik.2023. Pengaruh Pemberian Pupuk Organik Cair Urin Sapi Fermentasi Dengan Pupuk Npk (16:16:16) Terhadap Pertumbuhan Bibit Kakao (*Theobroma Cacao* L.) Varietas Sulawesi 1. Di Bawah Bimbingan M Subandi dan Esty Puri Utami**

Kakao (*Theobroma cacao* L.) merupakan salah satu komoditas perkebunan yang peranannya cukup penting bagi perekonomian nasional. Produksi kakao mengalami penurunan salah satunya akibat pemeliharaan tanaman yang relatif rendah dan kurang tersedianya bibit kakao yang bermutu. Untuk menanggulangi hal tersebut, penggunaan pupuk alternatif yang bisa digunakan yaitu POC Urin Sapi dan pupuk NPK (16:16:16). Tujuan penelitian ini yaitu untuk mengetahui pemberian POC Urin Sapi dengan pupuk NPK (16:16:16) terhadap pertumbuhan bibit tanaman kakao (*Theobroma cacao* L.). Penelitian ini dilaksanakan pada bulan september sampai desember yang bertempat di Balai Pengembangan dan Produksi Benih Perkebunan Jawa Barat. Metode yang digunakan yaitu Rancangan Acak Kelompok non faktorial, terdiri atas 12 perlakuan dan 3 ulangan. Perlakuan yang diberikan adalah kombinasi POC Urin Sapi 0, 20, 40, 60 ml/l<sup>-1</sup> dan NPK 0, 4, 8 gram. Hasil penelitian menunjukkan bahwa pemberian POC Urin Sapi dan NPK berpengaruh terhadap diameter batang, panjang akar dan bobot basah. Namun tidak berpengaruh terhadap tinggi tanaman, luas daun, jumlah daun.

**Kata kunci:** Pemupukan, Pertumbuhan, Kakao



## ABSTRACT

**Husen Abdul Rahman Malik.2023. Giving Effect of Fermented Cow Urine with NPK Fertilizer (16:16:16) on the Growth of Cocoa Seeds (*Theobroma Cacao* L.) Sulawesi Variety 1. Supervised by M Subandi and Esty Puri Utami.**

Cocoa (*Theobroma cacao* L.) is a plantation commodity whose role is quite important for the national economy. Cocoa production has decreased, one of which is due to relatively low plant maintenance and the lack of availability of quality cocoa seeds. To overcome this, the use of alternative fertilizers that can be used is Fermented Cow Urine and NPK fertilizer (16:16:16). The purpose of this study was to determine the application of Fermented Cow Urine with NPK fertilizer (16:16:16) on the growth of cocoa plant seedlings (*Theobroma cacao* L.). This research was carried out from September to December at the West Java Plantation Seed Development and Production Center. The method used was a non-factorial Randomized Block Design, consisting of 12 treatments and 3 replications. The treatment given was a combination of Fermented Cow Urine 0, 20, 40, 60 ml/l<sup>-1</sup> and NPK 0, 4, 8 grams. The results of the research showed that the application of Liquid Organic Fertilizer from Cow Urine and NPK had an effect on stem diameter, root length and wet weight. However, it has no effect on plant height, leaf area, or number of leaves.

**Key words:** Fertilization, Growth, Cocoa

