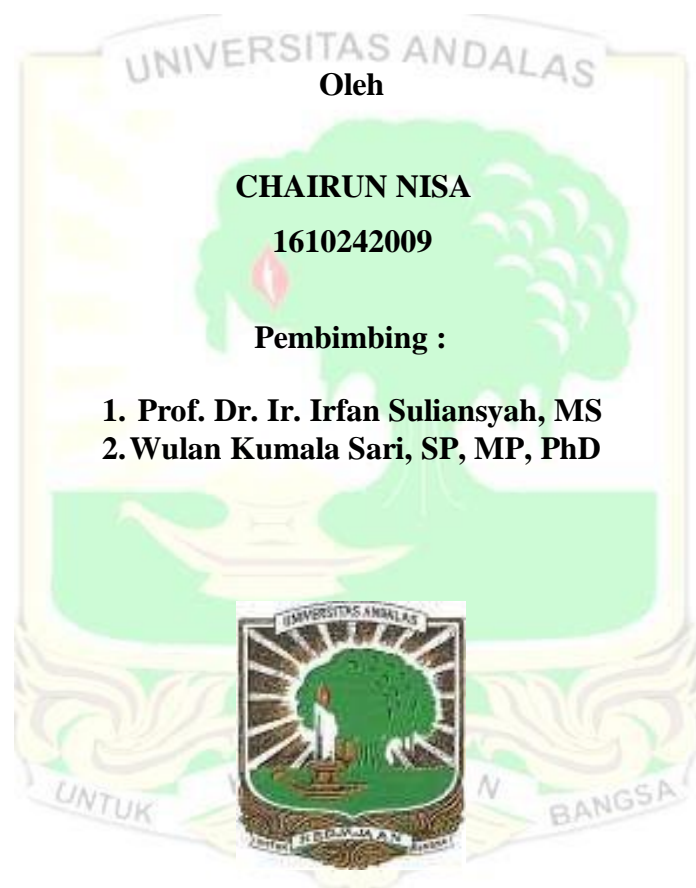


**PENGARUH PEMBERIAN KOMPOS AMPAS KEMPAAN DAUN
GAMBIR DENGAN BIOAKTIVATOR *Trichoderma harzianum*
TERHADAP PERTUMBUHAN BIBIT TANAMAN KAKAO
(*Theobroma cacao* L.)**

SKRIPSI



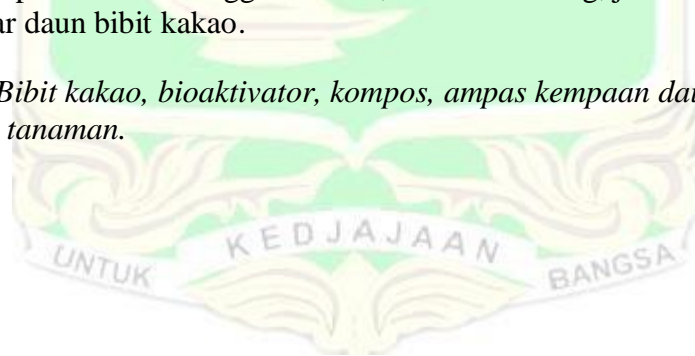
**FAKULTAS PERTANIAN
UNIVERSITAS ANDALAS
DHARMASRAYA
2021**

PENGARUH PEMBERIAN KOMPOS AMPAS KEMPAAN DAUN GAMBIR DENGAN BIOAKTIVATOR *Trichoderma harzianum* TERHADAP PERTUMBUHAN BIBIT TANAMAN KAKAO (*Theobroma cacao* L.)

Abstrak

Media tanam merupakan komponen utama pada pembibitan, di samping itu ketersediaan tanah marginal di lapangan mulai digunakan sebagai media tanam sehingga perlu dilakukan usaha perbaikan sifat kimia dan peningkatan kandungan unsur hara tanah agar tanaman dapat tumbuh secara optimal. Tujuan penelitian ini yaitu untuk mengetahui pengaruh pupuk kompos ampas kempaan daun gambir dengan bioaktivator *Trichoderma harzianum* dan dosis terbaiknya terhadap pertumbuhan bibit tanaman kakao (*Theobroma cacao* L.). Percobaan disusun menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan dan 5 ulangan sehingga diperoleh 25 unit percobaan, setiap unit percobaan terdiri dari 2 tanaman sehingga jumlah tanaman seluruhnya adalah 50 tanaman. Dosis kompos yang digunakan yaitu 0 gram, 100 gram, 200 gram, 300 gram, dan 400 gram per polybag. Variabel yang diamati yaitu tinggi tanaman, diameter batang, jumlah daun, panjang daun, lebar daun, ratio tajuk akar, analisis tanah sebelum dan setelah diberi perlakuan, serta analisis hara kompos. Data hasil pengamatan dianalisis dengan uji F dan dilanjutkan dengan uji *Duncan's New Multiple Range Test* (DNMRT) pada taraf 5%. Hasil penelitian menunjukkan kompos ampas kempaan daun gambir dengan bioaktivator *T. harzianum* memberikan pengaruh berbeda nyata terhadap pertumbuhan bibit kakao dengan dosis terbaik yaitu 400 g/polybag yang mampu meningkatkan pertumbuhan tinggi tanaman, diameter batang, jumlah daun, panjang daun dan lebar daun bibit kakao.

Kata kunci : Bibit kakao, bioaktivator, kompos, ampas kempaan daun gambir, pertumbuhan tanaman.



THE EFFECT OF GAMBIER LEAVES PRESSED DREGS COMPOST BY *Trichoderma harzianum* BIOACTIVATOR ON THE GROWTH OF CACAO (*Theobroma cacao L.*) SEEDLINGS.

Abstrak

Planting medium is the main component in plant nursery, besides the availability of marginal soil in the field has begun to be used as a planting medium therefore it is necessary to improve the soil chemical properties and increase the soil nutrients content so that crops can grow optimally. The objectives of this study were to determine the effect of compost from gambier leaves pressed dregs by *Trichoderma harzianum* bioactivator and to obtain its best dose on the growth of cacao (*Theobroma cacao L.*) seedlings. An experiment was design by completely randomized design (CRD) consisted of 5 treatments and 5 replications so that obtained 25 expermental units, each of it consisted of 2 plants so that the total were 50 plants. The compost doses used were 0 gram, 100 gram, 200 gram, 300 gram, and 400 gram per polybag. The observed variables were plant height, stem diameter, number of leaves, leaf length, leaf width, shoot root ratio, soil analysis before and after treatment, and the analysis of compost nutrient content. Observation data were analyzed by the F test and followed by Duncan's New Multiple Range Test (DNMRT) at the 5% level. The results showed that the compost of the gambier leaves pressed dregs by *T. harzianum* bioactivator gives a significant effect on the growth of cacao seedlings with the best dose of 400 g / polybag which was able to increase the growth of plant height, stem diameter, number of leaves, leaf length and leaf width of cacao seedlings.

Key words: Cacao seedlings, bioactivator , compost, gambier leaves pressed dregs, plant growth

