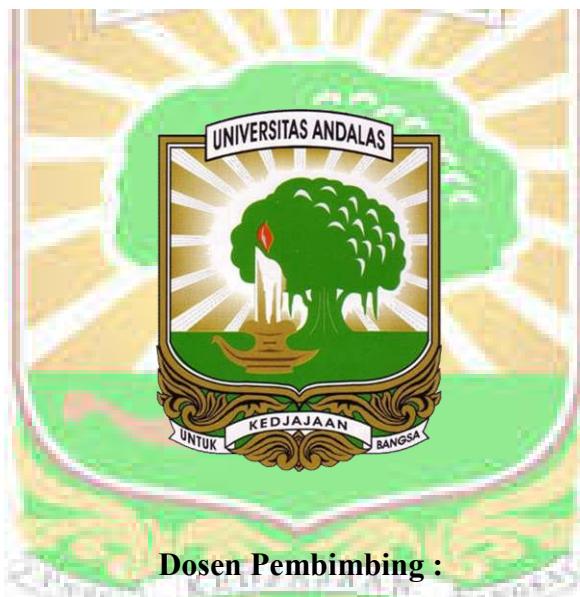


**PENGARUH PEMBERIAN PUPUK ORGANIK CAIR  
BONGGOL PISANG TERHADAP PERTUMBUHAN BIBIT  
GAMBIR (*Uncaria gambir* (Hunter) Roxb) PADA ULTISOL**

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# **PENGARUH PEMBERIAN PUPUK ORGANIK CAIR BONGGOL PISANG TERHADAP PERTUMBUHAN BIBIT GAMBIR (*Uncaria gambir* (Hunter) Roxb) PADA ULTISOL**

Novita Sari Fitri Riando, Yusniwati, Aprizal Zainal

## **ABSTRAK**

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian pupuk organik cair (POC) bonggol pisang terhadap pertumbuhan bibit gambir (*Uncaria gambir* (Hunter) Roxb) pada tanah ultisol yang dikenal memiliki kesuburan yang rendah dan pH yang masam serta menentukan konsentrasi terbaik yang memberikan respon pertumbuhan optimal. Penelitian ini dilakukan di Lareh Nan Panjang Sungai Sariak, Kecamatan VII Koto, Kabupaten Padang Pariaman, Sumatera Barat, dengan menggunakan Rancangan Acak Lengkap (RAL) yang terdiri atas 5 perlakuan (0, 100, 200, 300, dan 400 ml/l) dengan 3 ulangan. Parameter yang diamati meliputi tinggi bibit, jumlah daun, lebar daun, panjang daun, bobot segar dan bobot kering bibit gambir. Hasil penelitian menunjukkan bahwa pemberian POC bonggol pisang berpengaruh nyata terhadap panjang daun, bobot segar, dan bobot kering, namun tidak berpengaruh nyata terhadap tinggi bibit, jumlah daun, dan lebar daun. Perlakuan 300 ml/l memberikan hasil pertumbuhan terbaik secara umum, meskipun tidak berbeda nyata dengan perlakuan 400 ml/l. Pengaruh yang belum optimal diperkirakan karena umur tanaman yang masih muda dan kemampuan penyerapan unsur hara yang belum maksimal. Selain itu, proses pelepasan unsur hara dari pupuk organik berlangsung secara perlahan. Oleh karena itu disarankan agar dilakukan pengamatan dalam jangka waktu yang lebih panjang untuk melihat efektivitas pemberian POC bonggol pisang secara lebih menyeluruh hingga mencapai tahap siap salur.

Kata Kunci : *bonggol pisang, gambir, pupuk organik, ultisol*

# THE EFFECT OF LIQUID ORGANIC FERTILISER MADE FROM BANANA CORM ON THE GROWTH OF GAMBIR (*Uncaria gambir* (Hunter) Roxb) SEEDLINGS IN ULTISOLS

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## ABSTRACT

Gambir (*Uncaria gambir* (Hunter) Roxb) is a plantation crop that produces resin containing catechins and tannins with high economic value. As the leading producer of gambir, the productivity of gambir plants is still relatively low due to limited land availability. In contrast marginal land such as Ultisols has the potential to be utilized. The application of liquid organic fertiliser (LOF) from banana corms is one effort to improve the availability of organic matter in Ultisols. This study aims to determine the effect of liquid organic fertiliser from banana corms on the growth of gambir seedlings in Ultisol soil and to identify the optimal concentration that yields the best growth response. This study was conducted at Lareh Nan Panjang Sungai Sariak, VII Koto District, Padang Pariaman Regency, West Sumatera, using a completely randomised design (CDR) consisting of 5 treatments (0, 100, 200, 300, and 400 ml/l) with 3 replications. The parameters observed included seedling height, number of leaves, leaf width, leaf length, fresh weight, and dry weight of gambir seedlings. Results showed that applying banana corms LOF significantly affected leaf length, fresh weight, and dry weight, but did not significantly affect seedling height, number of leaves, and leaf width. The 300 ml/l treatment yielded the best overall growth results, although it was not significantly different from the 400 ml/l treatment. The suboptimal effect was likely due to the plants being too young to absorb nutrients optimally and the short observation period.

Keywords : *banana corms, gambir, organic fertiliser, ultisols*