

Uyung Mahardika Mukti Winahyu 180311100095. Pengaruh Konsentrasi POC (Pupuk Organik Cair) Berbasis Daun Kirinyu-Daun Gamal terhadap Pertumbuhan dan Hasil Kacang Hijau (*Vigna radiata* L.). **Pembimbing Ir. Amin Zuchri, M.P dan Ir. Achmad Djunaedy, M.P.**

ABSTRAK

Penelitian ini bertujuan untuk menganalisis pengaruh konsentrasi POC berbasis daun kirinyu-daun gamal terhadap pertumbuhan dan hasil kacang hijau (*Vigna radiata* L.). Penelitian dilaksanakan di Kebun Hortikultura Socah, Kabupaten Bangkalan, jenis tanah mediteran, ketinggian $\pm 4,2$ mdpl, dari bulan Desember 2021 - Maret 2022. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) dengan 3 ulangan dan 5 perlakuan yaitu kontrol / tanpa POC (A1), 50 ml POC/L air (A2), 100 ml POC/L air (A3), 150 ml POC/L air (A4), 200 ml POC/L air (A5). Hasil penelitian menunjukkan bahwa POC berbasis daun kirinyu-daun gamal berpengaruh nyata terhadap parameter tinggi tanaman pada umur 42 HST, jumlah daun pada umur 28, 35, 42, dan 49 HST, luas daun, umur berbunga, jumlah cabang produktif dan semua parameter komponen hasil tanaman kacang hijau. Secara umum perlakuan konsentrasi 200 ml POC/L air menjadi perlakuan paling efektif untuk memacu pertumbuhan dan hasil kacang hijau.

Kata Kunci : pupuk organik cair, kirinyu, gamal, kacang hijau (*Vigna radiata* L.).

Uyung Mahardika Mukti Winahyu 180311100095. Effect of POC (Liquid Organic Fertilizer) from the Mixture of Kirinyu and Gamal on Growth and Yield of Mung Beans (*Vigna radiata* L.). **Supervisor Ir. Amin Zuchri, M.P and Ir. Achmad Djunaedy, M.P.**

ABSTRACT

This study aimed to investigate the effect of POC based on kirinyuh-gamal leaves on the growth and yield of mung bean (*Vigna radiata* L.). The research was conducted in Socah Horticultural Garden, Bangkalan Regency with a land area of 7 x 4.5 m. Mediterranean soil type with an altitude of $\pm$ 4.2 masl, from December 2021 to March 2022. This study used a Randomized Block Design (RBD) with 3 replications and 5 treatments, namely control / without POC (A1), 50 ml POC/L water (A2), 100 ml POC/L water (A3), 150 ml POC/L water (A4), 200 ml POC/L water (A5). The results showed that the application of POC based on kirinyuh-gamal leaves had a significant effect on plant height parameters at 42 days after planting (DAP), number of leaves at 28, 35, 42, and 49 DAP, leaf area, flowering time, number of productive branches and all parameters of mung bean yield components. In general, treatment with a concentration of 200 ml POC/L water was the most effective treatment to stimulate growth and yield of green beans.

Keywords : liquid organic fertilizer, kirinyu, gamal, growth, mung beans (*Vigna radiata* L.).