ABSTRAK

PENGARUH KOMBINASI PUPUK GUANO DAN *Trichoderma harzianum* TERHADAP PERTUMBUHAN DAN HASIL TANAMAN SELADA KERITING (*Lactuca sativa* L.)

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Selada keriting (*Lactuca sativa* L.) merupakan salah satu jenis sayuran yang banyak digemari oleh masyarakat Indonesia. Salah satu upaya yang dapat dilakukan untuk meningkatkan pertumbuhan dan hasil tanaman selada keriting yaitu dengan cara pemberian pupuk yang sesuai kebutuhannya. Tujuan dari penelitian ini adalah untuk mengetahui pengaruh kombinasi pupuk guano dan *Trichoderma harzianum* terhadap pertumbuhan dan hasil tanaman selada keriting (*Lactuca sativa* L). Percobaan dilaksanakan di Kampung Sudimampir, Desa Hanum, Kecamatan Dayeuhluhur, Kabupaten Cilacap, pada bulan Juli sampai bulan Agustus 2025. Penelitian menggunakan Rancangan Acak Kelompok (RAK) yang terdiri dari 9 kombinasi perlakuan, A = pupuk guano 0 g/tanaman + *Trichoderma harzianum* 0 g/tanaman, B = pupuk guano 24 g/tanaman + *Trichoderma harzianum* 0 g/tanaman, C = pupuk guano 48 g/tanaman + *Trichoderma harzianum* 0 g/tanaman, D = pupuk guano 0 g/tanaman + *Trichoderma harzianum* 40 g/tanaman, E = pupuk guano 24 g/tanaman + *Trichoderma harzianum* 40 g/tanaman, F = pupuk guano 48 g/tanaman + *Trichoderma harzianum* 40 g/tanaman, G = pupuk guano 0 g/tanaman + *Trichoderma harzianum* 80 g/tanaman, H = pupuk guano 24 g/tanaman + *Trichoderma harzianum* 80 g/tanaman, I = pupuk guano 48 g/tanaman + *Trichoderma harzianum* 80 g/tanaman dan diulang sebanyak 3 kali. Hasil penelitian menunjukkan kombinasi pupuk guano dan *Trichoderma harzianum* berpengaruh terhadap tinggi tanaman, jumlah daun, bobot brangkasan, bobot basah, bobot akar dan nisbah pupus akar. Perlakuan kombinasi pupuk guano 48 g/tanaman + *Trichoderma harzianum* 40 g/tanaman (F) memberikan hasil yang paling baik terhadap pertumbuhan dan hasil tanaman selada keriting.

Kata kunci: Pupuk guano, Selada keriting, *Trichoderma harzianum*

ABSTRACT

THE EFFECT OF THE COMBINATION OF GUANO FERTILIZER AND *Trichoderma harzianum* ON THE GROWTH AND YIELD OF CURLY LETTUCE (*Lactuca sativa* L.)

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Lettuce (*Lactuca sativa* L.) is a popular vegetable in Indonesia. One effort that can be to improve lettuce growth and yield is by applying appropriate fertilizer. The purpose of this study was to determine the effect of a combination of guano and *Trichoderma harzianum* fertilizer on the growth and yield of curly lettuce (*Lactuca sativa* L.). Experimental was conducted in Sudimampir Village, Hanum Sub-district, Dayeuhluhur District, Cilacap Regency, from Juli to Agustus 2025.. The research used a Randomized Block Design (RAK) consisting of 9 treatment combinations, A = guano fertilizer 0 g/plant + *Trichoderma harzianum* 0 g/plant, B = guano fertilizer 24 g/plant + *Trichoderma harzianum* 0 g/plant, C = guano fertilizer 48 g/plant + *Trichoderma harzianum* 0 g/plant, D = guano fertilizer 0 g/plant + *Trichoderma harzianum* 40 g/plant, E = guano fertilizer 24 g/plant + *Trichoderma harzianum* 40 g/plant, F = guano fertilizer 48 g/plant + *Trichoderma harzianum* 40 g/plant, G = guano fertilizer 0 g/plant + *Trichoderma harzianum* 80 g/plant, H = guano fertilizer 24 g/plant + g *Trichoderma harzianum* 80 g/plant, I = guano fertilizer 48 g/plant + *Trichoderma harzianum* 80 g/plant, and repeated three times. The results showed that the combination of guano fertilizer and *Trichoderma harzianum* affected plant height, leaf number, stalk weight, fresh weight, root weight, and root drop ratio. The combination treatment of guano fertilizer 48 g/plant + *Trichoderma harzianum* 40 g/plant (F) provided the best results for curly lettuce growth and yield.

Keywords: Curly lettuce, Guano fertilizer, *Trichoderma harzianum*,