

Aplikasi POC Dan Hormon GA3 Terhadap Pertumbuhan dan Produksi Benih Kacang Hijau (*Vigna radiata L.*) (*Application of POC and GA3 hormone on growth and seed production of mung bean (*Vigna radiata L.*)*)
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ABSTRACT

*One of the efforts to increase the growth and production of mung bean seeds can be done by applying NASA POC and GA3 hormones. This research was conducted to determine the effect of giving NASA Liquid Organic Fertilizer (POC) and giving the hormone Gibberellin (GA3) to increasing growth and seed production of mung bean (*Vigna radiata L.*). This trial was carried out in August-November 2022, at the Jember State Polytechnic agricultural land. The experimental design used in this study was a factorial Randomized Block Design (RBD) consisting of two factors and repeated 3 times. The first factor was the NASA POC concentration (P), consisting of 5 ml/l (P1), 10 ml/l (P2), and 15 ml/l (P3). The second factor was the concentration of Gibberellins (G), consisting of 125 ppm (G1), 150 ppm (G2), and 175 ppm (G3). The results obtained were then analyzed using the F test or ANOVA (Analysis of Variance) and then the DMRT test was carried out. The interaction of the NASA POC application treatment and the GA3 hormone had a significant effect on several observation parameters. The interaction between the application of NASA's POC treatment and the GA3 hormone gave the best results for the parameter of total production per hectare of 73,838.31 kg.*

Key words : Green beans, POC NASA, Hormone GA3, Seed production