Pengaruh Pemberian Variasi Dosis Legin dan Pupuk SP-36 Terhadap Hasil Produksi serta Mutu Benih Kacang Hijau (*Vigna radiata* L.)

(*The Effect of Varying Dosages of Legin and SP-36 Fertilizer on Seed Production and Quality of Mung Bean* (*Vigna radiata* L.))

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ABSTRACT

Mung beans (Vigna radiata L.) are one of the legume crop commodities that are widely consumed by Indonesian people. This research aims to determine the effect of the application of legin and SP-36 in increasing the production and quality of Mung bean seeds. This research was carried out in September-November 2023, on land located on Jalan Kaliurang, Sumbersari Village, Sumbersari District, Jember Regency. The experimental design used in this research was a Randomized Block Factorial Design which consisted of 2 factors and was repeated 3 times. The first factor is the application of Legin (L) which consists of a legin dose of 15 g/Kg Seed (L1), 20 g/Kg Seed (L2), and 25 g/Kg Seed (L3). The second factor is the application of SP-36 (P) which consists of SP-36 doses of 50 Kg/Ha (P1), 75 Kg/Ha (P2), and 25 Kg/Ha (P3). The data obtained was then analyzed using ANOVA then further tested using DMRT with a level of 5%. The results of this research show that the application of Legin 25 g/Kg Seed (L3) seeds gave the best results at a plant height of 40.31 cm, planting seed weight of 18.09 gr, seed weight per plot 356 grams, seed production per hectare 2.10 tonnes , number of root nodules 9.16. The application of SP-36 100 Kg/Ha (P3) gave the best results at flowering age of 31.66 DAP, harvest age of 56 DAP and seed production per hectare. L3P2 treatment (legin dose 25 g/Kg seeds and SP-36 dose 75 Kg/Ha.

Key Words : Mung Bean, Legin, SP-36