Pengaruh Kosentrasi POC GDM dan Dosis Pupuk SP36 terhadap Produksi dan Mutu Benih Mentimun (*Cucumis sativus* L.). *Effect of GDM POC Concentration and SP36 Fertilizer Dosage on Production and Quality of Cucumber Seeds (Cucumis sativus L.).* Supervised by Ir. Suwardi, M.P

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ABSTRACT

Cucumber plants (Cucumis sativus L.) are a vegetable commodity that is popular with Indonesian people. This plant is a climbing plant and is a seasonal plant. Even though this plant is not native to Indonesia, cucumbers are widely loved by Indonesian people and are also used in the health sector as herbal medicine. Cucumbers have quite good nutritional value because this vegetable contains a source of minerals and vitamins. Efforts are needed to increase cucumber seed production. One of the efforts made to increase cucumber production is by fertilizing. This research aims to determine the effect of GDM POC concentration and SP36 fertilizer dosage on cucumber seed production and quality. The research was carried out from September 2023 to January 2024 on Jl. Tawang Mangu, Ward no. 177, West Krajan, Tegalgede, District. Sumbersari, Kab. Jember. The experimental design used was a factorial Randomized Block Design which was repeated three times. The first factor is GDM POC Concentration which consists of 4 ml/l (G1), 8 ml/l (G2), 12 ml/l (G3). The second factor is the dose of SP36 fertilizer which consists of 100 kg/ha (P1), 150kg/ha, (P2) 200kg/ha (P3). Data were analyzed using ANOVA, if the results showed significant or very significant differences, then further tests were carried out using DMRT at a level of 5% or 1%. The results of the research on the interaction of POC GDM concentration with SP36 fertilizer dosage on the production and quality of cucumber seeds were significantly different in Observations Weight per fruit with results found on the treatment of interaction (G3N1) 297.16 grams.

***Key Word**: Cucumber Seeds , POC GDM, SP36 Fertilizer,*