

**Aplikasi ZPT Giberelin (GA<sub>3</sub>) dan Konsentrasi Pupuk KNO<sub>3</sub> Terhadap Produksi dan Mutu Benih Mentimun (*Cucumis sativus* L) Varietas B25,**  
*Application of ZPT Gibberellins (GA<sub>3</sub>) and Concentration of KNO<sub>3</sub> Fertilizer on Production and Quality of Cucumber Seed (*Cucumis sativus* L) Varieties B25, : Dr. Netty Ermawaty, SP. And Rezqi Lukman Azis, S. Tr.P*

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### **ABSTRACK**

*To meet the demand for cucumbers whose production is decreasing, efforts can be made to increase cucumber production by improving cultivation techniques, increasing the quality of cucumbers, using quality and certified seeds. Optimizing cucumber plants can be through gibberellins hormones and KNO<sub>3</sub> fertilizer. The purpose of this study was to determine the effect of the interaction between the application of the hormone gibberellins and the concentration of KNO<sub>3</sub> fertilizer on the production and quality of cucumber seeds. This research was conducted at PT. Wira Argo Nusantara Sejahtera Kediri with a factorial Completely Randomized Design (RAK). The first factor is the concentration of the hormone gibberellin (G) with 3 levels, namely the concentration of 0 ppm (G<sub>0</sub>), 50 ppm (G<sub>1</sub>), and 100 ppm (G<sub>2</sub>). while the second factor is the concentration of KNO<sub>3</sub> (K) fertilizer with 3 levels of 0 g/l (K<sub>0</sub>), 2 g/l (K<sub>1</sub>) and 5 g/l (K<sub>2</sub>). The data were analyzed by Duncan's Multiple Range Test with a significance level of 5%. The results showed that the concentration of gibberellins with 100 ppm treatment had a very significant effect on leaf length (13,26 cm), fruit length (9,6 cm), fruit diameter (3,87 cm), fruit weight per plant (414,4 g), weight of seed per plant (12,85), production per ha (400,58 kg) and weight of 100 seeds (2,17). The KNO<sub>3</sub> concentration treatment gave a very significant effect on leaf length (13,33 cm), fruit length (9,6 cm), fruit diameter (3,88 cm), fruit weight (182 g), and weight of 100 seeds (2,16 g). The interaction of the two treatments had a very significant effect on fruit length (10 cm), fruit diameter (3,96 cm), and weight of 100 seeds (2,21 g), and significantly different to leaf length (13,87 cm).*

**Key words :** *cucumber seed, hormon gibberellins, KNO<sub>3</sub> fertilizer*