

**Respon Pertumbuhan Dan Produksi Kacang Panjang (*Vigna sinensis* L) Oleh Pemberian Pupuk NPK Dan Pupuk Organik Cair BIO-M. *Growth Response and Vigna sinensis* (L) Productions with Additional of NPK Fertilizer and BIO-M Liquid Organic Fertilizer. Advisor: Ir. Nantil Bambang Eko Sulistyono, M.Si, and Dr. Ir. Rahmat Ali Syaban, M.Si**

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**ABSTRACT**

*The objective of this study was to know the interaction between NPK mutiara fertilizer and BIO-M liquid organic fertilizer to the Vigna sinensis L growth. The research was carried out for 3 month from November 2015 until January 2016. All research was in Politeknik Negeri Jember field and laboratorium of teknik produksi Benih, The research was using randomized block design with two factor's. The first factor used 3 levels of addition the NPK fertilizer and the second factor used 3 level's of addition the BIO-M liquid organic fertilizer, and have 9 combinations which 3 replications. Total have 27 unit, factor (B) 10 ml/l, 20 ml/l 30 ml/l, and factor (N) 40 kg/ha, 50 kg/ha, 60 kg/ha. The data analised used Anova with duncan multiple range test 1%. The result of this study showed the additional of NPK fertilizer and BIO-M liquid organic fertilizer is not significant to the sevaral parameter's.*

**Keywords :** *NPK fertilizer, BIO-M liquid organic fertilizer, Vigna sinensis L.*