

**Pengaruh Humic Acid Super Phosphate (HSP) dan Kaptan Super Phosphate (KSP) Terhadap Pertumbuhan Tanaman dan Mutu Benih Dasar Tomat Varietas THEO 48, Effect of Humic Acid Super Phosphate (HSP) and Kaptan Super Phosphate (KSP) on Plant growth and Quality of Basic Tomato plant Variety THEO 48.** Supervisor: Ir. M. Bintoro, MP.

## **ABSTRACT**

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*The tomato plant is a plant that belongs to the vegetable group. The market demand for tomatoes continues to increase, this cannot be separated from the role of tomatoes as one of the most important horticultural commodities, especially as a vegetable crop. Every year the production of tomato plants increases, so as not to experience fluctuations it is necessary to increase tomato production every year. Availability of quality seeds is very influential on efforts to increase tomato crop production. This study aims to determine the effect of the interaction between HSP and KSP on the production and quality of basic tomato seeds. This study used a factorial randomized block design (RBD). The first factor was Humic Acid Super Phosphate (HSP) (A) with 3 treatment levels and the second factor was Kaptan Super Phosphate (KSP) (P) with 3 treatment levels. Each treatment was repeated 3 times, so there were 27 experimental units. The results showed that the HSP treatment had a very significant effect on the observed parameters of fruit diameter (5.26 cm), fruit weight (79.73 g), plant height (47.17 cm) with an HSP dose of 100 kg/ha (A2) and no significant effect on all parameters of the observation of the quality test of tomato plant seeds (*Solanum lycopersicum* L.). The KSP treatment had a very significant effect on the observed parameter of fruit weight (73.37 g), plant height (43.45 cm) and had no significant effect on fruit diameter and all parameters of the observation of the quality test of tomato plant seeds (*Solanum lycopersicum* L.). The interaction between HSP and KSP on tomato plants (*Solanum lycopersicum* L.) had no significant effect on all observed parameters.*

*Keywords : tomato plant, plant growth, Humic acid super phosphate, kaptan super phosphate, Humic acid*