

**RESPONSE TO ADDITIONAL NATURAL GROWTH
REGULATORY SUBSTANCES TO GROWTH OF PEPPER
PLANTS (*Piper nigrum* L.) BY STECK**
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ABSTRACT

*This study aims to determine the effectiveness of natural PGR on the growth of pepper (*Piper nigrum* L.) plants. This research was conducted at PDP Sumber Wadung, Silo Jember District from April - June 2021. This study used a Group Pickled Design (RAK) with 7 treatments and 3 replications. The concentrations carried out were K1 (control), K2 (10 ml/L), K3 (20 ml/L), K4 (30 ml/L), K5 (40 ml/L), K6 (50 ml/L), K7 (60 ml/L). Parameters observed were live percentage, number of shoots, stem diameter, root length, number of leaves, and root weight. Data were analyzed by ANNOVA. If it shows a significant difference, then it is continued with a further test of BNT (Least Significant Difference) at 5% level. The addition of natural ZPT treatment to the growth of pepper plants (*Piper nigrum* L.) resulted in significantly different results at the shoot length parameter 4 WAP and significantly different at the internode number parameter 4 WAP. Then for other parameters the results are not significantly different. The concentration of natural PGR that gave the best growth response was observed in the parameters of shoot length 4 WAP and the number of segments 4 WAP, namely at a concentration of K5 (40 ml/L)*

Keywords: Pepper cuttings, Natural PGR, Concentration of Natural PGR