

**THE EFFECT OF NATURAL ZPT WATERING
CONCENTRATION ON THE GROWTH OF
VANILI (*Vanilla planifolia* Andrews)**

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ABSTRACT

This study aims to determine the effect of natural ZPT watering concentration and the optimum concentration of natural ZPT watering on the growth of vanilla plant (*Vanilla planifolia* Andrews) seedlings. This research was conducted on Jl. Seriti Gendir, Banjar Sengon Village, Kec. Patrang, Jember from May to August 2020. The method used was a Non-Factorial Randomized Design (RAKNF) consisting of 5 treatments, including 5 levels of concentration of natural growth regulators 0 ml / l (control), 15 ml / l, 30 ml / l, 45 ml / l, 60 ml / l. With top soil and husk as media, each treatment consisted of 5 blocks. Further testing was carried out with the Least Significant Difference (LSD) at 5% level. The results of the study of the application of natural ZPT concentrations to the growth rate of vanilla seedlings had a significant effect on the parameters of plant seed height, and the number of plant leaves, with the optimal concentration, namely the P2 treatment or with a concentration of 30 ml / l while on the other hand, the application of natural ZPT concentrations to the root volume parameters, plant wet weight and plant dry weight had no significant effect.

Keywords: Natural Zpt, *Vanilla Planifolia* Andrews, Vanilla plant seeds