

**THE EFFECT OF VARIOUS PLANTING MEDIA COMPOSITIONS AND PROVIDINGS NATURAL GROWTH REGULATOR SUBSTANCES ON THE GROWTH OF VANILLA PLANT CUTTINGS**  
*(Vanilla planifolia Andrews)*

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**ABSTRACT**

Vanilla can be propagated by cuttings. To support vanilla plants so they can grow and produce optimally, this can be done by using a combination of planting media and natural growth regulators. This research aims to obtain the best combination of planting media and natural growth regulators types for growing vanilla plant cuttings. The research method that will be used is a field experiment arranged in a Split Plot Design, using a Completely Randomized Design consisting of two factors. The main plot is the composition of the planting media and the sub plots are the types of natural growth regulators. The data were analyzed for diversity using Analysis of Variance at the 5% level and continued with the Duncan's Multiple Range Test (DMRT) at the 5% level. The results showed that there was an interaction between the combination of planting media soil : goat manure: husk charcoal (1:2:2) with natural growth regulator of shallot extract on leaf number parameters of 60, 90, 120, and 150 DAP. The planting media composition soil : goat manure: husk charcoal (1:2:2) gave the best growth in the parameters of shoot height at 150 DAP. Natural growth regulator with red onion extract provided the best growth in the parameters of root length.

Keywords: Vanilla, cuttings, planting media, natural growth regulator