

***APPLICATION OF NATURAL GROWTH REGULATORS FOR VANILI  
PLANT ACCLIMATIZATION  
(Vanilla planifolia A.)***

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***ABSTRACT***

This study aims to determine the effect of good natural growth regulators for the growth of vanilla plants (*Vanilla planifolia* A) by acclimatization and optimal concentration of natural growth regulators for the growth of vanilla plants (*Vanilla planifolia* A) by acclimatization. This study was carried out at the Green House Culture Laboratory Plant Network, State Polytechnic of Jember from September to December 2019. The method used was a Non Factorial Randomized Block Design (RAKNF) consisting of 9 treatments including 9 levels of concentration of natural growth regulating agents 0 ml / l (control), 25 ml / l, 50 ml / l, 75 ml / l, 100 ml / l, 125 ml / l, 150 ml / l, 175 ml / l, 200 ml / l. With cocopeat growing media, each treatment consisted of 3 blocks. Further testing is done by the 5% Honestly Significant Difference test. Research results show that the use of natural growth regulators gives a significantly different effect on the growth of stem height, number of leaves and gives a significantly different effect on root length, while the optimal use of natural growth regulators is at a concentration of 25 ml/l in the parameters of stem height, number of leaves and root length.

***Keywords*** : *Natural growth, Vanilla Planivolia A, Acclimatization*