

**EFFECT OF ZPT SOATING TIME ON GROWTH OF SEEDS
OF CUTTINGS ONE SECTION OF VANILLA**
(*Vanilla Planifolia* Andrews)

Dibimbing oleh Ir. Lilik Mastuti, MP

Almas Alfatih

Plantation Cultivation Study Program

Department of Agricultural Production, Jember State Polytechnic

ABSTRACT

This study aimed to determine the effect of immersion time of ZPT on the growth of vanilla cuttings of one segment. This research was conducted in June 2022 – September 2022 in Situbondo District, Kapongan District, Kesambirampak Village. This study used a non-factorial Randomized Block Design (RAK), namely the immersion time of giving ZPT Rootone F. With varying immersion time, including A1 (control), A2 (control), A3 2.5 minutes, A4 5 minutes, A5 7.5 minutes, A6 10 minutes. The best treatment is found in the A4 and A5 treatments on each of the parameters obtained. live percentage A4 80%, A5 78% at 14 DAP, finished percentage A4 74%, A5 78% at 30 DAP, shoot length A4 14.41 cm, A5 13.01cm at 8 DAP, shoot diameter A4 6.45 mm, A5 6.76 mm at 8 DST, the number of segments A4 6.32, A5 5.97 at 92 DAP, root length A4 27.19 cm, A5 28.20 cm at 92 DAP. ANOVA test with BNJ further test with a level of 5%. The results showed that ZPT Rootone F concentration of 200 ppm with soaking time of 7.5 minutes and 10 minutes had a very significant effect compared to being rubbed on the percentage of survival 14 DAP, percentage to 30 DAP, shoot length 8 MSTT, shoot diameter 8 MSTT, number of internodes 92 DAP, and root length 92 DAP of one segment vanilla cuttings.

Keywords : *Soaking time for ZPT, Rootone F, one segment cuttings*