

***THE EFFECT OF COMBINATION OF BAP (BENZYL AMINO PURINE)
AND COCONUT WATER CONCENTRATION ON TOBACCO
NETWORK CULTURE OF PRANCAK VARIETY 95
BY IN VITRO***

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ABSTRACT

This study aims to determine the effect of the concentration combination between ZPT BAP (Benzyl Amino Purine) and coconut water on the In vitro induction of shoots of Prancah 95 varieties of tobacco leaves. The research was carried out from December 2019 to February 2020 at State Polytechnic of Jember on Culture Laboratory. The method used was factorial completely randomized design (RALF) which consisted of 2 factors (BAP and coconut water). The first factor is ZPT BAP which consists of 3 levels concentration (1 ppm; 3 ppm; 5 ppm). The second factor is the addition of coconut water which consists of 2 levels (25 ml; 75 ml). Each treatment consisted of 4 replications, and each replication consisted of 3 bottles. The analysis showed that the combination of BAP ZPT and coconut water had an effect on shoot emergence time and height shoot. The highest shoots were found in the A3N1 treatment (5 ppm BAP; 25 ml coconut water) with an average shoot height of 3,15 cm. And best time to appearance shoot was in the A1N2 treatment (1 ppm BAP; 75 ml coconut water) with an average time of 3,75 days.

Keywords : Shoot induction ; BAP ; water coconut combination; In vitro