

PERBANYAKAN TUNAS VANILI (*Vanilla planifolia*) DENGAN PENAMBAHAN VARIASI KONSENTRASI BAP (Benzyl Amino Purine)

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ABSTRACT

Vanilla development can be pursued through tissue culture techniques with the addition of Benzyl Amino Purine (BAP) to form shoot doubling in one axillary bud explant. The research was carried out from February to June 2021 at the Jember State Polytechnic Network Culture Laboratory. The research method used a single factor Completely Randomized Design (CRD) with variations in the concentration of BAP addition of 0.0; 0.5; 1.0; 1.5; and 2.0 ppm into Murashige-Skoog base medium. The results showed that the average number of vanilla shoots formed was 2.87 - 3.81 shoots/explant when the explants were 56 days after inoculation. These results indicate that the addition of BAP effectively affects the propagation of vanilla culture shoots. However, it is still necessary to study the maximum concentration limit added to MS base media.

Keywords

BAP, concentration, shoots, vanilla

Scientific field

Bioteknologi

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