

*PORANG (Amorphophallus muelleri Blume) MADIUN I IN VITRO
MULTIPLICATION AT VARIOUS CONCENTRATIONS OF BENZYL AMINO
PURINE (BAP) AND GIBBERELIC ACID (GA3)*

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Abstract

This study conducted to learn about the combination of Benzyl Amino Purine (BAP) and Gibberellic Acid (GA3) using Murashige and Skoog (MS) media for porang in vitro culture. The experiment was carried out from March to June 2023, using Completely Randomized Design with 2 factors. The first factor, namely the concentration of BAP (0 ppm, 2 ppm, 4 ppm, and 6 ppm), and the second factor GA3 (0 ppm, 2 ppm, 4 ppm, and 6 ppm) with three replicates. Data were analyzed using analysis of variance (ANOVA) and Duncan's Multiple Range Test (DMRT) at 5%. The research showed that the combination B0G0 produces the largest shoot length (1,05 cm). The best combination for the number of tillers was B6G4 with 6,75. The best combination for shape and explants color were B6G4 and B2G0 because they produced green cluster form of tillers.

Keywords: Benzyl Amino Purine, Gibberellic Acid, In Vitro, Plant Growth Regulator, Porang, Propagation.