

**Pengaruh Media Tanam Dan Dosis Pupuk ZA Terhadap Pertumbuhan Bibit  
Pisang Cavendish (*Musa acuminata*) Varietas Grand Naine Pada Tahap  
Aklimatisasi**

*(The Effect Of Planting Media And ZA Fertilizer Dose On The Growth Of  
Cavendish Banana Seedlings (*Musa acuminata*) Grand Naine Variety At  
The Acclimatization Stage)*

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**ABSTRACT**

*This study aims to determine the effect of planting media and ZA fertilizer doses on the growth of Cavendish banana (*Musa acuminata*) seedlings of the Grand Naine variety at the acclimatization stage. The study was conducted at the Green House of the Tissue Culture Laboratory of Jember State Polytechnic in August - November 2025 using a factorial Completely Randomized Design (CRD) with two factors, namely planting media (M), consisting of Bamboo Humus (M1), Compost (M2), and Compost + Bamboo Humus 1: 1 (M3) and ZA fertilizer doses of 0g/plant (Z0) 0.25g/plant (Z1), 0.5g/plant (Z2), 1g/plant (Z3) and 2g/plant (Z4). Observations were made on the components of vegetative growth and plant chlorophyll content. The results obtained were then analyzed using the ANOVA Test (Analysis of Variance) and continued with the LSD Test at a level of 5%. The results showed that the planting media and the dose of ZA fertilizer had a significantly different (\*) to very significantly different (\*\*) effect on several parameters of the vegetative growth of Cavendish banana seedlings. The M1Z2 treatment (Bamboo Humus + 0.5 g/plant) produced the best growth with a plant height of 21.77 cm, a stem diameter of 7.53 mm, a number of leaves of 5, a leaf width of 5.90 cm, a leaf length of 9.76 cm and a leaf chlorophyll content of 47.29 units at the last observation 90 days after planting. The percentage of plant survival reached 86.67%, while dead plants only occurred in the M2Z3 and M2Z4 treatments with a value of 13.33% which indicated that the provision of high doses of ZA in the compost media did not support successful acclimatization.*

**Keywords:** *Cavendish banana, acclimatization, planting media, ZA fertilizer*