

The Effectiveness of Types of Liquid Fertilizer Based on Biotechnology and Organik on the Growth of Betel Gading Ornamental Plants (Epipremnum aureum)

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Abstrack

Betel ivory is a leaf ornamental plant that has potential in the ornamental plant market. However, betel ivory often has problems, namely it is difficult to produce large amounts of leaves at the same time. Therefore, to help get a large number of leaves at the same time, biotechnology and organik-based liquid fertilizers are applied. This research was conducted to determine the effectiveness of various types of biotechnology-based and organik liquid fertilizers on the growth of ornamental plants betel ivory (Epipremnum aureum). This research was conducted for 6 months in January-July 2022. The study used a non-factorial randomized block design , namely liquid fertilizer. The types of liquid fertilizers are type a liquid fertilizer containing microrhiza and rhizobium bacteria, type b liquid fertilizer containing growth regulators, and type c liquid fertilizer containing vitamin B1 and anti-fungal. Parameters observed were ivory betel growth in the form of number of leaves, leaf length, leaf width, stem length, root length, root branching. The results showed that the application of liquid fertilizer had a significant effect on the observed parameters. The application of type A liquid fertilizer has a significant effect on root growth. While the application of liquid fertilizer type b gave a significant effect on the growth of stem length.

Keyword: Betel ivory, ornamental plants, growth, liquid fertilizer based on biotechnology and organic.