

ABSTRACT

Eggplant is one of the most widely cultivated horticultural crops in Indonesia to fulfill nutritional needs and has a fairly affordable price. This research was conducted in the experimental garden of Universitas Malikussaleh from March 2024 to June 2024. Using Randomized Block Design (RBD) with two factors and three replications. The first factor is vermicompost fertilizer which consists of 3 levels, namely (K0) 0 kg/ha, (K1) 4 tons/ha, (K2) 6 tons/ha. The second factor is lamtoro leaf liquid organic fertilizer which consists of 3 levels, namely (L0) 0 ml, (L1) 200 ml/L, (L2) 300 ml/L. The results showed that the treatment of cassava fertilizer had a significant effect on the growth and yield of purple eggplant plants. This can be seen in the variables of fruit diameter per plant, fruit length per plant and number of fruits per plant. The best treatment was obtained in the treatment of 6 tons/ha dosage of vermicompost fertilizer. Lamtoro leaf POC treatment affects the growth and yield of purple eggplant plants. This can be seen in the variables of fruit diameter per plant, fruit length per plant and number of fruits per plant. The best treatment was obtained in the 200 ml/L dose treatment.

Keywords: Dosage, growth, production, and organic fertilizer