

**GROWTH AND YIELD OF EGGPLANT (*Solanum melongena* L.)
RESPONSES TO VARIOUS GROWING MEDIA AND TYPES OF LIQUID
ORGANIC FERTILIZER.**

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ABSTRACT

Eggplant a seasonal vegetable. Productivity of purple eggplant (*Solanum melongena* L.) has not been able to meet the level of consumption per capita of Indonesian society. The aim of the study was to determine the effect of the composition of various growing media and liquid organic fertilizers on the growth and yield of purple eggplant. The research was conducted at the Experimental Garden of the Faculty of Agriculture, Universitas Pembangunan Nasional “Veteran“ Yogyakarta. This study used a completely randomized design factorial pattern. The first factor was the composition of medium, soil, sand and manure, which consisted of 4 types, namely 2:1:1, 1:1:2 and 1:2:1 and 1:2:2. The second factor was the type of liquid organic fertilizer which consisted of 4 types, namely Rabbit Urine, Cow Urine, Rice Washing Water and Liquid Smoke. Data were analyzed using analysis of variance (ANOVA), followed by the Duncan Multiple Range Test (DMRT) at the 5% level to determine significant differences between treatments. The results showed that there was no interaction between treatments on eggplant growth and yield. The composition of Soil : Sand : Manure 1:1:2, 1:2:1, and 1:2:1 showed best growth in the parameters of plant height, number of leaves, stem diameter, leaf width, leaf length and flowering time. Liquid organic fertilizer treatment did not affect the growth and yield of plants.

Keywords: Planting media, liquid organic fertilizer, purple eggplant