

**APPLICATION OF LIQUID ORGANIC FERTILIZER TO THE
GROWTH AND YIELD OF CUCUMBER (*Cucumis sativus var. batara*)
WITH VARIETY OF GROWTH MEDIA IN VARIAN COMPOTITION**

By : Muhammad Tirta Adiloka
Supervised by: Endah Budi Irawati. dan Ari Wijayani.

ABSTRACT

This research aimed to determine the interaction between the composition of the growing media and the types of the best liquid organik fertilizer for the growth and yield of cucumber as well as to determine the composition of the growing media and the best liquid organik fertilizer for the growth and yield of cucumber. Research experiment was conducted at Plumbungan RT. 02 Sumbermulyo, Bambanglipuro, Bantul, Yogyakarta in December-February 2022. This research uses the design of split-plot with two factors, namely the composition of the growing media and the type of liquid organik fertilizer. The growing Media used are the soil:chicken manure:sand with the composition of the media 1:2:1, 1:1:2, and 2:1:1 and the application of liquid organik fertilizer of type A (N 5.15%, P₂O₅ 4,25%, K₂O 3,55 %), B (N 4,15%, P₂O₅ 4.45%, K₂O 5,66 %) and C (N 16.49%, P₂O₂ 3.96%, K₂O 1.45%). The results were analyzed using ANOVA followed by the method of DMRT (Duncan Multiple Range Test) at the level of the test 5%. The results showed an interaction on the parameters of the fruit weight. The composition of the treatment of the growing media (soil, chicken manure, sand in the ratio 1:1:2) showed the best results on the parameters of plant height 7 DAP, plant stembdiameter 7 DAP and number of leaves 7 DAP. The application of liquid organik fertilizer of type C (N 16.49%, P₂O₂ 3.96%, K₂O 1.45%) showed the type of liquid organic fertilizer gives the same good results on all parameters.

Keywords: Cucumber, Composition of Growing Media, Liquid Organik Fertilizer

