Growth and Yield of Ciplukan (*Physalis angulata* L.) Plants with Various Types of Organic Materials and *Trichoderma* sp. Doses.

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ABSTRACT

Ciplukan is a plant used for health, and its growth and yield can be optimized with adding organic materials and *Trichoderma* sp. This study aims to determine the best types of organic materials and doses of *Trichoderma* sp. The research used a field experiment with polybags in a Completely Randomized Design (CRD) with two factors. The first factor is type of organic material and the second factor is *Trichoderma* sp. dose. Data were analyzed using ANOVA and DMRT at a 5% significance level. The results showed an interaction between organic materials and *Trichoderma* sp. dose on plant height at 21 DAP, fruit number, and total fruit weight. Soil treatment + cow dung fertilizer gave the best results on the parameters of plant height at 14 and 28 DAP, stem diameter at 14 DAP, number of leaves at 7 and 14 DAP, number of branches, and fruit weight per plant. Treatment dose of *Trichoderma* sp. 40 g/plant gave the best growth and results in the parameters of stem diameter at 14 DAP, number of leaves at 21 and 28 DAP, and number of branches at 7 and 21 DAP.

Kata Kunci: Ciplukan, Organic materials, *Trichoderma* sp.