

ABSTRACT

Merang mushroom is one of the most popular horticultural commodities because of its delicious and healthy taste. Efforts to increase the yield of merang mushrooms can be done by increasing the availability of nutrients in the media for growing merang mushrooms either by adding ingredients that can enrich nutrients. One of the ingredients that can increase the availability of nutrients is eco-enzyme. In addition to eco-enzyme, media thickness can also affect the growth and yield of merang mushroom cultivation. This research was conducted in merang mushroom barn, Faculty of Agriculture, Malikussaleh University in December 2024/January 2025. This study used a completely randomized design (CRD) with two factors and three replications. The first factor is eco-enzyme which consists of E0 (0 ml), E1 (20 ml) and E2 (30 ml). The second factor is the thickness of the media consisting of K1 (13 cm), K2 (18 cm). The observed variables were first pinhead appeared, first harvest time, diameter of mushroom fruiting body, length of the mushroom fruiting body, number of mushroom fruiting bodies, average weight of the fruiting body and total mushroom harvest. The results showed that the best eco-enzyme was E0 (0 ml). Media thickness treatment influenced the observation parameter of fruiting body diameter. The best media thickness was 18 cm (K2). There was no interaction between eco-enzyme and media thickness on the growth and yield of merang mushroom.

Keywords: nutrition, straw rice, pinhead