

ABSTRACT

Mohammad Teguh Yuda Permana. 2020. The Effect of Application of Mushroom Planting Media Waste on the Growth of Lettuce (*Lactuca Sativa* L.) And the Development of Leaf Spot Disease (*Alternaria Brassicae*). Under the guidance of Ahmad Taofik and Ida Yusidah

Lettuce (*Lactuca sativa* L.) is a type of vegetable favored by Indonesians. Its consumers range from the lower class to the upper class society. Leaf spot disease caused by *Alternaria Brassicae* can reduce yields of lettuce by 23% (Rukmana, 1994). So this study aims to determine how the best application of mushroom growing media waste to the growth and development of leaf spot disease. This research was conducted from February to March 2020 at the green house of Padjajaran University, Jatinangor District, Sumedang Regency, West Java. Using a completely randomized design (CRD), namely control, spraying the waste of mushroom growing media, watering the waste of mushroom growing media, and watering and spraying the waste of mushroom growing media. Based on the results of the research, mushroom growing media waste had a significant effect in increasing plant height, leaf number and suppressing disease intensity. P3 treatment (sprayed and watered) is the best application method for plant growth.

Keywords: *Alternaria Brassicae*, Meranng Mushrooms, Planting Media Waste, Lettuce

