

**GROWTH AND YIELD OF OYSTER MUSHROOM  
(*Pleurotus ostreatus* (Jacq.) P. Kumm) WITH THE ADDITION OF  
RICE STRAW (*Oryza sativa* L.) ON PLANTING MEDIUM**

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**ABSTRACT**

White oyster mushrooms (*Pleurotus ostreatus* (Jacq.) P. Kumm) is one of the mushrooms in high demand so they are widely cultivated by farmers in Indonesia. The number of oyster mushroom cultivations can cause a scarcity of *Albizia chinensis* wood sawdust as a growing medium for white oyster mushrooms, so an alternative planting medium is needed. Rice straw has the potential to be an alternative growing medium for mushrooms because it contains the ingredients needed for the growth of oyster mushrooms, namely cellulose, hemicellulose, and lignin. The purpose of this research is to determine the best composition of planting media for the growth and quality of white oyster mushrooms. This research was an experiment in a mushroom house arranged in a Completely Randomized Design (CRD) 1 factor with 7 compositions, namely 0, 15, 30, 45, 60, 75, and 90% straw. The observation data were analyzed using the Analysis of Variance method at a 5% test level and further tested with Duncan's Multiple Range Test (DMRT) at a 5% level. The results of the research show that all treatments of the composition of the sawdust and rice straw planting media did not differ significantly in terms of the growth and quality of the white oyster mushroom yield.

**Keywords:** White oyster mushroom, planting medium, rice straw.