

## ABSTRACT

Ali Mahrus. 2014. **The influence of Molase Addition for Media F3 to the growth of Auriculairia Mushroom (*Auriculairia polytrica*)**. Thesis. Biology Department Science and Technology Faculty Maulana Malik Ibrahim State Islamic University. Supervisor: Dr. H. Eko Budi Minarno, M.Pd and Umayatus Syarifah, M.A.

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Mushroom is one of farming commodity that has high economic values with expensive enough sale prize in market. It is because of its taste is delicious, and has high vitamin and a plenty of advantages. One of mushroom that has many advantages very expensive (*Auricularia polytrica*). The problem that the preservers mostly have is low productivity caused by the planting media. Molase is assumed that can accelerate the growth of Auriculairia mushroom. The purpose of this research is to know the influence of molase addition and best concentration affects the growth of Auricularia mushroom.

This research is an experimental research and use RAL (complete random design) with 5 concentration and 5 times repetition, that is M0 (0% Molase), M1 (2% Molase), M3 (6 % Molase), and M4 (8% Molase). Each 1 kg standard media with provision in 100 kg of standard media added 1 litre of molase. This research was done from March-July 2014 in Mushroom Karya Agro Jaya on Terusan Mergan Lori street Sukun Malang East Java. The analysis used in this research is analysis of variance based on experiment F of level 1% and 5% and if it is found a significant difference it is continued with experiment of Duncan distance (UJD) in the level 5%.

Based on the result of this research, it is known that the different concentration affects to the growth of Auriculairia mushroom. The Molase addition with concentration 4% can accelerate miselium growth and the time of pin head emergence is quicker with averade 33,2 HIS (day after innoculation) and 4.8 HSPB (day after opening baglog). While molase addition with concentration 2% can increase the fresh weight, number of bodies, diameter and harvest interval of Auricularia mushroom with average of each 28,2 gram, 18,2 fruits, 10,3 cm and 4,4 days