

## ABSTRACT

### ANTIFUNGAL ACTIVITY *Auricularia nigricans* EXTRACTED USING SOXHLETS WITH ETHANOL AS A SOLVENT AGAINST *Candida glabrata* USING THE WELL METHOD

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Ear fungus (*Auricularia auricula*) is a species of wood fungus that has high nutritional value and economic value. The purpose of this study is to determine the ability of black ear fungus (*Auricularia nigricans*) extract extracted with ethanol as a solvent to inhibit the growth of *Candida glabrata*. The black ear fungus that has been determined will be powdered before being extracted as much as 200 grams, the extraction of the fungus is carried out by the soxhletation method for 5 hours with 4 repetitions. The solvent used for extraction is 1L 96% ethanol. The extract obtained was 8.4 ml with a purple-black color and a distinctive smell. The concentrations used were 25%, 50%, 75%, and 10% DMSO as negative controls and were replicated 6 times. The result of the that black ear fungus extract could not inhibit the growth of *Candida glabrata* in all concentrations (inactive antifungal activity). Factor's that affect the antifungal inhibition of black ear fungus extract in the form of extraction method, extract concentration volume and black ear fungus habitat.

*Keywords : Auricularia nigricans, Candida glabrata, soxhletation, ethanol, well method.*