ABSTRACT

ANTIFUNCIAL ACTIVITY OF BLACK EAR MOLD (Auricularia nigricans) EXTRACTED USING SOCHLETS WITH 96% Ethanol SOLUTION AGAINST Candida albicans USING THE WELL METHOD

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The aim of this study is to determine the ability of black ear fungus extract (Auricularia nigricans) which was extracted with ethanol solvent in inhibiting the growth of *Candida albicans*. The dried black ear fungus (*Auricularia nigricans*) was powdered before being extracted. 200 grams black ear fungus (Auricularia nigricans) powder was extracted using the Soxhlet method. The solvent used was ethanol 96% as much as 1 L. The extract obtained was as much as 8.4 ml with a purple-black color and a distinctive smell. The extract concentrations used were 25%, 50%, 75%, and 10% DMSO as negative controls. The method used in the antifungal activity research is the well method. From the results of the study, it was found that, in the negative control there was no inhibition zone formed, at a concentration of 25% there was no inhibition zone formed, at a concentration of 50% an inhibition zone was formed with an average of 0.21 mm, and at a concentration of 75% formed the presence of zone of inhibition with an average of 0,322 mm. Black ear fungus (Auricularia nigricans) extract which was extracted with ethanol solvent could inhibit the growth of Candida albicans with a weak category.

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