

ABSTRACT

INHIBITORY TEST OF METHANOL EXTRACT OF *Auricularia nigricans* AGAINST *Candida parapsilosis* USING THE DISC METHOD

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Candidiasis is an infectious disease caused by a fungus caused by *Candida* sp. transmission that can occur through direct or indirect contact. Candidiasis can affect hair, nails, mucous membranes and other organs such as the mouth and throat. Black ear fungus is a wood fungus containing secondary metabolites of alkaloids, flavonoids and monoterpenes which function as antifungals. The purpose of this study was to determine the ability of black ear mushroom (*Auricularia nigricans*) methanol extract to inhibit the growth of *Candida parapsilosis*. Dried black ear mushrooms are cut into smaller sizes then blended until smooth and sieved. As much as 200 grams of black ear mushroom powder was extracted with 1 liter of methanol using the 10-hour soxhletation method and 4 repetitions. The results of the extract obtained were 5.45 grams which were purple-black in color, thick in shape and had a distinctive odor. The test concentration used in the study was 0,2 g/ml; 0,25 g/ml; 0,3 g/ml and 10% DMSO as a negative control with 5 replications. The results showed that there was no inhibition zone formed around the disc paper which indicated that the black ear mushroom methanol extract could not inhibit the growth of *Candida parapsilosis* and was included in the inactive category. Several factors could influence these results, namely the habitat of the black ear fungus (*Auricularia nigricans*), the extraction method, the nature of the test fungus *Candida parapsilosis*.

Keywords : *Candidiasis, Auricularia nigricans, Candida parapsilosis, methanol, soxhletation, disc method.*