ABSTRACT

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

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Candida was a fungus that belongs to the yeast group which can cause candidiasis which was an acute fungal disease, where the symptoms of the disease will appear suddenly and the condition will worsen rapidly. *Auricularia nigricans* is a fungus that belongs to the Basidiomycota division which contains alkaloid compounds, flavonoids and monoterpenes which can function as antifungals. The purpose of this study was to determine the ability of the methanol extract of *Auricularia nigricans* to inhibit the growth of *Candida albicans*. The dried *Auricularia nigricans* is cut into small pieces and crushed in a blender. *Auricularia nigricans* which had been mashed was weighed as much as 200 grams and extracted, the extraction was carried out by the soxhletation method for 10 hours with 4 repetitions. The solvent used for extraction was 1 liter of methanol. The soxhletation results obtained with a dark purple extract of 5.45 grams smelled of mushrooms. The concentrations used in the study were 0.2 g/ml, 0.25 g/ml, 0.3 g/ml and 10% DMSO as negative with five replicate controls. The results showed no inhibition zones were formed around the paper discs, this indicated that black ear mushroom extract could not inhibit the growth of *Candida albicans*. Things that can affect the inhibition of antifungal *Auricularia nigricans* are extraction time, volume concentration of the extract and *Auricularia nigricans* habitat.

Keywords : Inhibitory test, Auricularia nigricans, Candida albicans, disc method, soxhletation methanol