

ABSTRACT

ANTIFUNGAL ACTIVITY OF *Auricularia nigricans* EXTRACTED BY MACERATION WITH ETHANOL AS A SOLVENT AGAINST *Candida glabrata* USING THE WELL METHOD

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Candida glabrata is the second most common cause of candidiasis. Infections caused by *Candida glabrata* are hard to treat because of its high significance of resistance against fluconazole and other azoles derivatives. Black ear fungus (*Auricularia nigricans*) is one of the natural ingredients that can be used as antifungal because it contains alkaloids, flavonoids and monoterpenes. The purpose of this study is to determine antifungal activity of maceration-ethanol extract from *Auricularia nigricans* against *Candida glabrata* using well method. Black ear fungus is obtained from cultivation in Poncokusumo, Malang district, East Java which determined in BRIN Bogor and *Candida glabrata* is obtained from BBLK Surabaya. *Auricularia nigricans* is extracted by maceration method with ethanol 96% as the solvent for three days. *Auricularia nigricans* extract then made into three concentrations 0,2g/mL; 0,3g/mL; and 0,4g/mL. Antifungal activity is determined using well method with DMSO 10% as negative control and replicated six times. The study conducted obtained as much as 16.27g black ear fungus extract with a yield value of 8.135% and shows that *Auricularia nigricans* in all concentrations did not form a clear zone which indicated that there was no inhibition against *Candida glabrata* and this result was included in the inactive category.

Keywords : *Auricularia nigricans*, *Candida glabrata*, maceration, ethanol, well method