

**POTENSI EKSTRAK ETANOL DAUN PEPAYA (*Carica papaya*  
*Linn.*) DALAM MENCEGAH PERTUMBUHAN  
*Candida albicans***

*Potency of Ethanol Extract of Papaya Leaves (*Carica papaya* Linn.) on The  
Prevention of *Candida albicans* Growth*

**ABSTRACT**

**BACKGROUND:** *Candida albicans* (*C. albicans*) is a dimorphic fungus which is pathogenic opportunistic and normal flora in oral cavity. Presence of the *C. albicans* results in oral candidosis and is one of the most high complication incidence rates in the oral cavity of about 90% in patients with immunocompromized condition such as HIV / AIDS. With the more expensive price of drugs and a number of side effects, the use of herbal ingredients is highly recommended. Therefore, researcher used ethanol extract of papaya leaves (*Carica papaya* Linn.) to test whether papaya leaves can be used as an antifungal, especially in preventing the growth of *C. albicans*. Papaya leaves are believed to have many medical properties. **PURPOSE:** To find the minimum inhibitory concentration of ethanolic extract of papaya leaves on the prevention of *Candida albicans* growth. **METHOD:** This experiment was done by using dilution method. The extract was diluted into 8 different concentrations (100%, 50%, 25%, 12.5%, 6.25%, 3.12%, 1.56%, 0.78%). Then crosscheck was done by counting the colonies of *Candida albicans* in the Sabouraud Dextrose Agar plate. The result was recorded and analyzed by using One Way ANOVA. **RESULT:** The result showed that antifungal activity was active at concentration 50% as minimum inhibitory concentration with average total colony is about 12 colonies. Statistical test showed that there were significant differences of total colony from each concentration. **CONCLUSION:** Papaya leaf extract could prevent the growth of *Candida albicans* at concentration 50%.

**KEYWORDS:** *Candida albicans*, papaya leaf extract, minimum inhibitory concentration