

# **EFEKTIFITAS DAYA HAMBAT EKSTRAK ETANOLIK DAUN SIRIH MERAH (*Piper crocatum*) TERHADAP PERTUMBUHAN *Candida albicans***

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## **INTISARI**

Tanaman daun sirih merah merupakan salah satu tanaman obat yang mempunyai daya antifungal karena tanaman ini mengandung saponin, tanin, alkaloid dan flavonoid. *Candida albicans* merupakan jamur yang mempunyai peran penting dalam terjadinya infeksi di rongga mulut. Penelitian ini bertujuan untuk mengetahui efektifitas daya hambat ekstrak etanolik daun sirih merah terhadap jamur *Candida albicans*.

Penelitian ini bersifat eksperimen laboratorium dengan menggunakan isolat *Candida albicans*. Penelitian dilakukan di Laboratorium Mikrobiologi Fakultas Kedokteran Universitas Muhammadiyah Yogyakarta. Proses ekstraksi daun sirih merah (*Piper crocatum*) dilakukan di Laboratorium Biologi, Fakultas Farmasi, Universitas Gadjah Mada. Uji statistik dilakukan dengan ANAVA satu jalur yang dilanjutkan dengan uji LSD<sub>0,05</sub>. Hasil uji ANAVA didapat nilai 0,000 ( $p < 0,05$ ) yang mengindikasikan adanya perbedaan daya hambat terhadap *Candida albicans* secara signifikan untuk masing-masing konsentrasi ekstrak etanolik daun sirih merah.

Berdasarkan hasil uji LSD<sub>0,05</sub> diperoleh hasil bahwa ekstrak etanolik daun sirih merah dengan konsentrasi 80% mempunyai daya hambat yang lebih besar. Dari hasil penelitian dapat ditarik kesimpulan bahwa ekstrak etanolik daun sirih merah mempunyai daya antifungal terhadap *Candida albicans*.

## EFFECTIVE OF LEAF ETHANOLIC EXTRACT OF SIRIH MERAH (*Piper crocatum*) TO GROWTH OF *CANDIDA ALBICANS*

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### ABSTRACT

Sirih merah is one of medicinal plants that has antifungal ability because of its composition. Sirih merah contains saponin, tanin, alkaloid and flavonoid. *Candida albicans* is one of fungi that has infection in oral cavity. The objective of this research is to observe effective the antifungal activity of the ethanolic extract of sirih merah leaves against *Candida albicans*.

This study was a laboratory experimen that used *Candida albicans* as subjects and was held in Microbiology Laboratory of Medial Faculty of Muhammadiyah University of Yogyakarta. Process extraction of sirih merah leaves (*Piper crocatum*) was held in Biology Laboratory of Pharmacy Faculty of Gadjah Mada University. The data were analyzed by using one-way ANAVA and  $LSD_{0,05}$ . The result of one-way ANAVA was 0,00 ( $p < 0,05$ ), that meant that there was a significant difference of antifungal activity among different concentrations of the extract.

The result of  $LSD_{0,05}$  test showed that the extract with 80% concentration has higher antifungal activity. It can be concluded that the ethanolic extract of sirih merah leaves has an antifungal activity against *Candida albicans*.