

INTISARI

RAMADHANIANTI, D., 2017, UJI AKTIVITAS ANTIJAMUR FRAKSI *n*-HEKSAN, ETIL ASETAT, DAN AIR DARI EKSTRAK UMBI BAWANG DAYAK (*Eleutherine palmifolia* (L.) Merr) TERHADAP *Candida albicans* ATCC 10231 SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Bawang dayak (*Eleutherine palmifolia* (L.) Merr) mengandung flavonoid, alkaloid, tanin, saponin, dan terpenoid yang mempunyai aktivitas sebagai antijamur. Tujuan penelitian ini untuk mengetahui aktivitas ekstrak etanol 96%, fraksi *n*-heksan, fraksi etil asetat, dan fraksi air dari umbi bawang dayak terhadap pertumbuhan *Candida albicans* ATCC 10231.

Umbi bawang dayak diekstraksi dengan metode maserasi menggunakan pelarut etanol 96% , kemudian difraksinasi menggunakan pelarut *n*-heksan, etil asetat, dan air. Hasil ekstraksi dan fraksinasi dilakukan uji aktivitas antijamur menggunakan metode difusi dengan konsentrasi 50%, 25%, 12,5% dan metode dilusi dengan konsentrasi 50%, 25%, 12,5, 6,25%, 3,125%, 1,56%, dan 0,78%. Kontrol positif yang digunakan adalah ketokonazol dan kontrol negatif DMSO 5%. Hasil uji aktivitas antijamur dianalisa dengan metode anova *one way*.

Hasil penelitian umbi bawang dayak menunjukkan semua fraksi dan ekstrak mempunyai aktivitas antijamur. Hasil diameter zona hambat ekstrak, fraksi *n*-heksan, etil asetat, dan air untuk konsentrasi 50% adalah 16,55 mm, 14,57 mm, 24,78 mm, dan 17,44 mm. Fraksi etil asetat konsentrasi 50% merupakan fraksi paling aktif dengan nilai Konsentrasi Bunuh Minimum sebesar 12,5%.

Kata kunci : bawang dayak, *Candida albicans*, antijamur, fraksi

ABSTRACT

RAMADHANIANTI, D., 2017, ANTIFUNGAL ACTIVITY TEST OF *n*-HEKSAN, ETIL ACETAT, AND WATER FRACTION OF BAWANG DAYAK TUBER'S EXTRACT (*Eleutherine palmifolia* (L.) Merr) AGAINST *Candida albicans* ATCC 10231, THESIS, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

Bawang dayak (*Eleutherine palmifolia* (L.) Merr) contains flavonoids, alkaloids, and tannin that have activity as an antifungal. This study is aimed to determine the activity of the ethanol extract of 96%, the fraction of *n*-hexane, ethyl acetate fraction, and water fraction of bawang dayak's tuber against the spread of *Candida albicans* ATCC 10231.

Bawang dayak's tuber was extracted by maceration method used ethanol 96%, then was fractionated by using *n*-hexane, ethyl acetate, and water solvents. The extraction and fractionation was tested the antifungal activity used the diffusion method with concentration of 50%, 25%, 12.5% and dilution method with concentration of 50%, 25%, 12.5, 6.25%, 3.125%, 1.56% , And 0.78%. Positive control used ketoconazole and negative control was DMSO 5% .The result of antifungal activity test was analyzed by one way anova method.

The results of bawang dayak's tuber experiment showed that all fractions and extracts had antifungal activity. The results of extract a drag zone diameter, *n*-hexane fraction, ethyl acetate, and water for concentration 50% were 16.55 mm, 14.57 mm, 24.78 mm, and 17.44 mm. The concentration for 50% ethyl acetate fraction is the most active fraction with a Minimum Killable Concentration value of 12.5%.

Keywords: bawang dayak's, *Candida albicans*, antifungals, fraction