

INTISARI

NANA, D.V.,2017., UJI AKTIVITAS ANTIJAMUR EKSTRAK ETANOL, FRAKSI *n*-HEKSAN, ETIL ASETAT, DAN AIR DARI DAUN JAMBU METE (*Anacardium occidentale* L.) TERHADAP *Candida albicans* ATCC 10321. SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Daun jambu mete (*Anacardium occidentale* L.) mengandung flavonoid, alkaloid, tannin, saponin, fenol, dan triterpenoid. Berkhasiat sebagai antiradang, pencakar, disentri, diabetes, dan sakit gigi. Penelitian ini bertujuan untuk menguji aktivitas antijamur ekstrak etanol, fraksi *n*-Heksan, fraksi etil asetat dan fraksi air daun jambu mete (*Anacardium occidentale* L.) terhadap *Candida albicans* ATCC 10321, mengetahui antara ketiga fraksi yang menghasilkan aktivitas antijamur teraktif serta mengetahui nilai KHM dan KBM dari fraksi teraktif ekstrak daun jambu mete (*Anacardium occidentale* L.).

Ekstrak daun jambu mete diperoleh dengan proses maserasi menggunakan etanol 70%. Penentuan efektifitas fraksi *n*-Heksan, fraksi etil asetat, dan fraksi air daun jambu mete secara difusi dan dilusi. Metode difusi dengan konsentrasi 50%, 25%, 12,5% dan kontrol positif ketokonazol. Metode dilusi menggunakan seri pengenceran 50%, 25%, 12,5%, 6,25%, 3,13%, 1,57%, 0,79%, 0,40%, dan 0,20%. Analisis data yang diperoleh dari hasil pengujian aktivitas antijamur dengan metode difusi diuji secara statistik menggunakan ANOVA *One Way* menunjukkan adanya perbedaan nyata pada konsentrasi dalam menghambat aktivitas antijamur *Candida albicans* ATCC 10321.

Hasil penelitian ini menunjukkan bahwa ekstrak, fraksi *n*-Heksan, fraksi etil asetat dan fraksi air dari daun jambu mete mempunyai aktivitas antijamur terhadap *Candida albicans*. Fraksi etil asetat, mempunyai aktivitas antijamur terbaik dibandingkan fraksi *n*-Heksan, fraksi yang mempunyai aktivitas antijamur terbaik adalah fraksi etil asetat. KBM fraksi etil asetat dari ekstrak etanol daun jambu mete adalah konsentrasi 3,13%.

Kata kunci : daun jambu mete, antijamur, *Candida albicans*.

ABSTRACT

NANA, D.V.,2017, FRACTION TEST ANTIFUNGAL ACTIVITY OF N-HEXANE, ETHYL ACETATE FRACTION, AND FRACTION ETHANOLIC LEAF EXTRACT WATER CASHEW (*Anacardium occidentale* L.) BY MACERATION TO *Candida albicans*, SCRIPT, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.

The leaves of the cashew *Anacardium occidentale* [L] contains flavonoids, alkaloids, tannins, saponins, phenols, and triterpenoid. Nutritious as antiradang, laxative, dysentery, diabetes, and toothache. This research aims to test the antifungal activity of ethanol extracts, the fraction of n-Heksan, the fraction of ethyl acetate and fractions of the water leaves the cashew (*Anacardium occidentale* L.) against *Candida albicans* ATCC 10321, knowing among the three factions that resulted antifungal activity was more active and knowing the value of KHM and KBM from the faction most active extract of leaves of the cashew *Anacardium occidentale* [L].

Cashew leaf extract is obtained by the process of maceration using ethanol 70%. Determination of the effective fraction of n-Heksan, ethyl acetate fraction, the fraction of leaf water and cashew nuts in diffusion and dilution. The diffusion method with a concentration of 50%, 25%, 12.5% and positive control ketokonazol. Serial dilution method using a dilution of 50%, 25%, 12.5%, 6.25%, 3.13%, 1.57%, 0.79%, 0.40%, and 0.20%. Analysis of data obtained from antifungal activity test results with statistically tested diffusion method using One-way ANOVA showed significant differences in concentrations of antifungal activity of inhibiting *Candida albicans* ATCC 10321.

The results of this study showed that the extract, the fraction of n-Heksan and ethyl acetate fraction, the fraction of water from the leaves of cashew nuts have antifungal activity against *Candida albicans*. The fraction of ethyl acetate, has the best antifungal activities compared to the fraction of n-Heksan, the fraction of water and ethanol extracts of leaves of cashew nuts. KBM fraction of ethyl acetate from ethanol leaf extracts of cashew nuts which can kill *Candida albicans* is the concentration of 3,13%.

Keyword : Cashew leaf, fractionation, antifungal, *Candida albicans*.