

ABSTRAK

Judul : Uji Aktivitas Antimikroba Ekstrak Etanol 70% Daun Bidara Arab (*Ziziphus spina-christi L.*) Terhadap *Staphylococcus epidermidis* dan *Candida albicans*

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Daun bidara arab (*Ziziphus spina-christi L.*) merupakan salah satu tanaman suku *Rhamnaceae* yang memiliki senyawa aktif alkaloid, flavanoid, saponin, tannin dan steroid atau triterpenoid. Tanaman daun bidara arab ini memiliki aktivitas antimikroba. Penelitian ini bertujuan untuk mengetahui pengaruh ekstrak daun bidara arab terhadap mikroba *Staphylococcus epidermidis* dan *Candida albicans*. Metode penelitian ini dengan ekstraksi tanaman bidara arab secara maserasi dengan pelarut etanol 70%. Hasil ekstraksi yang didapatkan 156,5795 g dengan rendemen 31,31%. Metode uji aktivitas antimikroba yang digunakan secara difusi sumuran. Hasil uji aktivitas antimikroba ekstrak daun bidara arab yaitu terhadap bakteri *Staphylococcus epidermidis* dengan konsentrasi 200 µg/ml terbentuk zona hambat 11 mm, 100 µg/ml zona hambat 7 mm, dan 50 µg/ml zona hambat 3 mm, sedangkan *Candida albicans* dengan konsentrasi 400 µg/ml terbentuk zona hambat 10 mm, 200 µg/ml zona hambat 8 mm, dan 100 µg/ml zona hambat 5 mm. Berdasarkan penelitian yang telah dilakukan bahwa ekstrak etanol 70% daun bidara arab (*Ziziphus spina-christi L.*) memiliki aktivitas antimikroba terhadap *Staphylococcus epidermidis* dan *Candida albicans*.

Kata kunci : *Ziziphus spina-christi L.*, Maserasi, *Staphylococcus epidermidis*, *Candida albicans*, Aktivitas antimikroba.

ABSTRACT

Title : Antimicrobial Activity Test of 70% Ethanol Extract of Bidara Arabic Leaves (*Ziziphus spina-christi L*) Against *Staphylococcus epidermidis* and *Candida albicans*

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Bidara arab leaves (*Ziziphus spina-christi L.*) is one of the plants of the Rhamnaceae family which contains various active compound of alkaloids, flavonoids, saponins, tannins and steroids or triterpenoids. This bidara arab leaves has antimicrobial activity. This study aims to determine the effect of bidara arab leaves extract on *Staphylococcus epidermidis* and *Candida albicans* microbes. The method of this research is the extraction of bidara arab leaves by maceration with 70% ethanol solvent. The extraction yield obtained was 156.5795 g with a yield of 31.31%. The antimicrobial activity test method used was well diffusion. The results of the antimicrobial activity test of bidara arab leaves extract were against *Staphylococcus epidermidis* bacteria with a concentration of 200 µg/ml forming an inhibition zone of 11 mm, 100 µg/ml of 7 mm inhibition zone, and 50 µg/ml of 3 mm inhibition zone, while *Candida albicans* with a concentration of 400 µg/ml formed an inhibition zone of 10 mm, an inhibition zone of 200 µg/ml of 8 mm, and an inhibition zone of 5 mm of 100 µg/ml. Based on the research that has been done, 70% ethanol extract of the leaves of bidara arab (*Ziziphus spina-christi L.*) has antimicrobial activity against *Staphylococcus epidermidis* and *Candida albicans*.

Keyword : *Ziziphus spina-christi L*, Maceration, *Staphylococcus epidermidis*, *Candida albicans*, Antimicrobial activity.