

INTISARI

SYAFITRI, S.N., 2021, AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL 96% DAUN BAYAM MALABAR (*Basella alba*) TERHADAP BAKTERI *Shigella dysenteriae* ATCC 12039, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Daun bayam malabar (*Basella alba*) adalah daun yang secara empiris berkhasiat untuk mengobati diare. Kandungan kimia daun bayam malabar adalah saponin, flavonoid dan tanin. Senyawa tersebut mempunyai aktivitas sebagai antibakteri. Penelitian ini dilakukan untuk mengetahui aktivitas antibakteri ekstrak etanol daun bayam malabar terhadap *Shigella dysenteriae* ATCC 12039 mengetahui Konsentrasi Hambat Minimum (KHM) serta Konsentrasi Bunuh Minimum (KBM) hasil ekstrak teraktif dari ekstrak etanol daun bayam malabar.

Ekstraksi daun bayam malabar menggunakan metode maserasi menggunakan pelarut etanol 96% kemudian dipekatkan. Hasil ekstraksi dilakukan uji aktivitas antibakteri terhadap *Shigella dysenteriae* ATCC 12039 dengan menggunakan metode difusi dengan konsentrasi 70%, 60%, 50% dan metode dilusi dengan konsentrasi 70%, 35%, 17,5%, 8,75%, 4,375%, 2,187%, 1,093%, 0,546%, 0,273% dan 0,136%.

Hasil uji metode difusi menunjukkan ekstrak daun bayam malabar memiliki daya hambat paling aktif terhadap *Shigella dysenteriae* ATCC 12093 yaitu 23,33 mm pada konsentrasi 70%. Konsentrasi Hambat Minimum ekstrak daun bayam malabar terhadap *Shigella dysenteriae* ATCC 12093 adalah konsentrasi 35% dan Konsentrasi Bunuh Minimum adalah 35% dengan menggunakan metode dilusi padat.

Kata kunci: Daun bayam malabar (*Basella alba*), Antibakteri, difusi, *Shigella dysenteriae* ATCC 12093

ABSTRAK

SYAFITRI, S.N., 2021, ANTIBACTERIAL ACTIVITY EXTRACT ETHANOL 96% OF BAYAM MALABAR (*Basella alba*) INHIBITE *Shigella dysenteriae* ATCC 12039, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Basella alba are known to have empirical activity for treating diarrhea. Chemical compounds of *Basella alba* were saponins, flavonoids, and tannins. The compounds has activity for antibacterial. This research aimed to study the antibacterial activity of ethanolic extract of *Basella alba* against *Shigella dysenteriae* ATCC 12039, and to determined Minimum Inhibitory Concentration (MIC) and Minimum Bactericidal Concentration (MBC) of ethanolic extract *Basella alba*.

Extraction of *Basella alba* leaves was used materation method and used ethanol 96% as a solvent, and it was concentrated. The result of extraction was evaluated of antibacterial activity for *Shigella dysenteriae* ATCC 12093 which method was difusion with concentrations of extract were 70%; 60%; and 50% , and dilution method with the concentrations were 70%; 35%; 15%; 8,75%; 4,375%; 2,187%; 1,093%; 0,546%; 0,273% and 0,136%.

The result of difusion method was showed the extract of *Basella alba* has a good inhibited for *Shigella dysenteriae* ATCC 12039 in 23,33 mm with the concentration was 70%. Minimum Inhibitory Concentration of extract *Basella alba* for bacteria *Shigella dysenteriae* ATCC 12093 was 35% and Minimum Bactericidal Concentration with the concentration that has good acitivity was 35% and used dilution method.

Keyword: *Basella alba*, Antibacterial, difusion, *Shigella dysenteriae* ATCC 12039