

## INTISARI

**ARIF, M., 2016, UJI AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL , FRAKSI *n*-HEKSANA, ETIL ASETAT DAN AIR DARI DAUN ASHITABA (*Angelica keiskei* [Miq.] *koidz*) TERHADAP *Salmonella typhi* ATCC 19430, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.**

Daun ashitaba (*Angelica keiskei* [Miq.] *koidz*) mengandung alkaloid, saponin, tanin, flavonoid dan terpenoid. Penelitian ini dilakukan untuk mengetahui aktivitas antibakteri ekstrak etanol, fraksi *n*-heksana, etil asetat, dan air dari daun ashitaba (*Angelica keiskei* [Miq.] *koidz*) terhadap *Salmonella typhi* ATCC 19430.

Ekstraksi daun ashitaba menggunakan metode maserasi dengan pelarut etanol 96%, kemudian difraksinasi menggunakan *n*-heksana, etil asetat, dan air. Hasil ekstraksi dan fraksinasi di uji aktivitas antibakteri terhadap *Salmonella typhi* ATCC 19430. menggunakan metode dilusi. Konsentrasi ekstrak etanol dan fraksi yang digunakan adalah 40%; 20%; 10%; 5%; 2,5%; 1,25%; 0,625%; 0,313%; 0,156%; 0,078%.

Hasil penelitian ini menunjukkan bahwa ekstrak etanol, fraksi *n*-heksana, etil asetat dan air memiliki aktivitas antibakteri terhadap *Salmonella typhi* ATCC 19430 dengan Konsentrasi Bunuh Minimum berturut-turut 20%, 40%, 10% dan 40%. Fraksi etil asetat dari daun ashitaba memiliki aktivitas antibakteri paling aktif dibandingkan fraksi *n*-heksana, air dan ekstrak.

Kata kunci: Daun ashitaba (*Angelica keiskei*), *Salmonella typhi* ATCC 19430, antibakteri.

## ABSTRACT

**ARIF, M. 2016, TEST OF ANTIBACTERIAL ACTIVITY ETHANOL EXTRACT, FRACTIONS OF *n*-HEXANE, ETHYL ACETATE AND WATER FROM ASHITABA (*Angelica keiskei* [Miq.] *koidz*) LEAF AGAINST *Salmonella typhi* ATCC 19430, THESIS, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.**

Ashitaba (*Angelica keiskei* [Miq.] *koidz*) leaf contains alkaloid, saponin, tannin, flavonoid and terpenoid. The study was conducted to determine the antibacterial activity ethanol extract, fractions of n-hexane, ethyl acetate, and water from ashitaba (*Angelica keiskei* [Miq.] *koidz*) leaf against *Salmonella typhi* ATCC 19430.

Ashitaba leaf extraction using maceration method with solvent of 96% ethanol, and then fractionated using n-hexane, ethyl acetate, and water. The results of extraction and fractionation was tested antibacterial activity against *Salmonella typhi* ATCC 19430 using dilution method. The concentration of ethanol extract and fractions used were 40%; 20%; 10%; 5%; 2,5%; 1,25%; 0,625%; 0,313%; 0,156%; 0,078%.

The results of this study showed that the ethanol extract, fractions of n-hexane, ethyl acetate and water had antibacterial activity against *Salmonella typhi* ATCC 19430 with Minimum Kill Concentration 20%, 40%, 10% and 40%, respectively. Ethyl acetate fraction of ashitaba leaf had the most active antibacterial activity than the fractions of n-hexane, water and extract.

Keywords: *Angelica keiskei* [Miq.] *koidz*., *Salmonella typhi* ATCC 19430, antibacterial.