

INTISARI

Kusuma A.D., 2017 UJI AKTIVITAS ANTIBAKTERI KOMBINASI EKSTRAK ETANOL DAUN JAMBU BIJI (*Psidium guajava L.*) DAN DAUN JAMBU METE (*Anacardium occidentale L.*) TERHADAP *Shigella dysenteriae* ATCC 9361 , SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI SURAKARTA.

Daun jambu biji dan daun jambu mete secara tradisional dapat mengobati disentri. Pada penelitian sebelumnya ekstrak etanol daun jambu biji dan ekstrak etanol daun jambu mete memiliki aktivitas antibakteri terhadap *Shigella dysenteriae* ATCC 9361. Penelitian ini bertujuan untuk mengetahui aktivitas antibakteri kombinasi ekstrak etanol daun jambu biji dan daun jambu mete terhadap *Shigella dysenteriae* ATCC 9361.

Uji aktivitas antibakteri ekstrak etanol daun jambu biji dan ekstrak etanol daun jambu mete terhadap *Shigella dysenteriae* ATCC 9361 menggunakan metode dilusi dan difusi. Konsentrasi ekstrak yang digunakan untuk metode dilusi adalah 50%; 25%; 12,5%; 6,25%; 3,12%; 1,56%; 0,78%; 0,39%; 0,19%; 0,09%. Konsentrasi ekstrak kombinasi yang digunakan untuk uji difusi adalah 12,5%. Perbandingan kombinasi ekstrak etanol yang digunakan adalah 1:1,1:3,dan 3:1.

Konsentrasi Bunuh Minimum (KBM) ekstrak etanol daun jambu biji dan ekstrak etanol daun jambu mete adalah 12,5%. Kombinasi ekstrak etanol daun jambu biji dan daun jambu mete yang paling aktif dalam menghambat pertumbuhan *Shigella dysenteriae* ATCC 9361 adalah kombinasi ekstrak dengan perbandingan 1:3.

Kata kunci : Antibakteri, *Shigella dysenteriae*, Kombinasi, Daun jambu biji (*Psidium guajava L.*), daun jambu mete (*Anacardium occidentale L.*)

ABSTRACT

Kusuma,A.D., 2017, TEST OF ANTIBACTERIAL ACTIVITY COMBINATION ETHANOL EXTRACT OF GUAVA LEAF (*Psidium guajava L.*) AND CASHEW LEAF (*Anacardium occidentale L.*) AGAINST *Shigella dysenteriae* ATCC 9361, RESEARCH PAPER, FACULTY OF PHARMACY, UNIVERSITY OF SETIA BUDI SURAKARTA.

Guava leaves and cashew leaves can use as traditional medicine for dysentery. In the previous research, ethanol extract of guava leaf and cashew leaf have antibacterial activity against *Shigella dysenteriae* ATCC 9361. This study aims to know the antibacterial activity of ethanol extract combination of guava leaves and cashew leaves against *Shigella dysenteriae* ATCC 9361.

Antibacterial activity test of ethanol extract guava leaves and cashew leaves on *Shigella dysenteriae* ATCC 9361 using dilution and diffusion method. The extract concentration used for the dilution method was 50%; 25%; 12.5%; 6.25%; 3.12%; 1.56%; 0.78%; 0.39%; 0.19%; 0.09%. The concentration of the combination extract used for the diffusion test was 12.5%. Comparison of ethanol extract combination used was 1: 1.1: 3, and 3: 1.

Minimum Bactericid Concentration (MBC) ethanol extract of guava leaves and ethanol extract of cashew leaf was 12.5%. The combination of ethanol extract guava leaves and cashew leaves most active to inhibiting the growth of *Shigella dysenteriae* ATCC 9361 is a combination of extracts with a ratio of 1:3.

Keywords: *Antibacterial, Shigella dysenteriae, Combination, Guava Leaves (Psidium guajava L.), Cashew leaves (Anacardium occidentale L.)*