

INTISARI

SULISTIYOWATI, D., 2017, AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL DAUN SIRSAK (*Annona muricata* L) TERHADAP METHICILLIN-RESISTANT *Staphylococcus aureus* (MRSA), SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.

Daun sirsak (*Annona muricata* L) merupakan tanaman yang secara empiris digunakan untuk mengobati kanker. Beberapa penelitian menyebutkan bahwa daun sirsak memiliki aktivitas antibakteri terhadap bakteri *Staphylococcus aureus*, *Bacillus subtilis*, *K. pneumonia*, *S. typhimurium*, *E. coli*. Senyawa metabolit sekunder yang terkandung dalam daun sirsak diantaranya adalah saponin, tanin dan flavonoid. MRSA merupakan strain *S. aureus* yang mempunyai gen *mecA*, dimana gen tersebut menyandi PBP2a yang mempunyai afinitas rendah terhadap antibiotik betalaktam.

Penelitian ini dilakukan untuk mengetahui aktivitas antibakteri ekstrak etanol 70% daun sirsak terhadap MRSA. Ekstraksi dilakukan dengan metode maserasi menggunakan pelarut etanol 70%. Pengujian aktivitas antibakteri terhadap MRSA secara difusi cakram dan sumuran pada konsentrasi 25%, 50%, 75% dan secara dilusi dengan konsentrasi 75%, 37,5%, 18,75%, 9,37%, 4,69%, 2,34%, 1,17%, 0,59%.

Hasil penelitian ini menunjukkan bahwa ekstrak etanol 70% konsentrasi 25%, 50%, 75% daun sirsak tidak memiliki aktivitas daya hambat dan daya bunuh terhadap bakteri MRSA.

Kata kunci : *Annona muricata* L., MRSA, antibakteri, ekstrak.

ABSTRACT

SULISTIYOWATI, D., 2017, ANTIBACTERIAL ACTIVITY OF ETHANOL EXTRACT OF SOURSOP LEAF (*Annona muricata* L) AGAINST METHICILLIN-RESISTANT *Staphylococcus aureus* (MRSA), THESIS, PHARMACHY FACULTY, SETIA BUDI UNIVERSITY, SURAKARTA.

Soursop leaf (*Annona muricata* L) is a plant that is empirically used to treat cancer. Some studies suggest that soursop leaves have antibacterial activity against *Staphylococcus aureus*, *Bacillus subtilis*, *K. pneumonia*, *S. typhimurium*, *E. coli*. Secondary metabolite compounds contained in soursop leaves include saponins, tannins and flavonoids. MRSA is a strain of *S. aureus* that has the *mecA* gene, where the gene encodes PBP2a that having a low affinity for beta-lactam antibiotics.

This research was conducted to find out antibacterial activity of 70% ethanol extract soursop leaf againts MRSA. The extraction was done by maceration method using 70% ethanol solvent. Examination of antibacterial activity of MRSA by diffusion of disc and well at concentration 25%, 50%, 75% and dilution with concentration 75%, 37,5%, 18,75%, 9,37%, 4,69%, 2, 34%, 1.17%, 0.59%.

The results of this study showed that 70% ethanol extract of soursop leaves 25%, 50%, 75% concentration did not inhibit and killing MRSA growth

Keywords : *Annona muricata* L., MRSA, antibacterial, extract.