

## INTISARI

**ARVIAN, D.W., 2019, UJI AKTIVITAS ANTIBAKTERI EKSTRAK, FRAKSI *n*-HEKSANA, ETIL ASETAT DAN AIR DAUN SENDUDUK BULU [*Clidemia hirta* (L). D. DON] TERHADAP *Staphylococcus aureus* ATCC 25923 DAN *Escherichia coli* ATCC 25922, SKRIPSI, FAKULTAS FARMASI, UNIVERSITAS SETIA BUDI, SURAKARTA.**

Tanaman senduduk bulu [*Clidemia hirta* (L). D. Don] berkhasiat sebagai obat luka, infeksi bakteri dan diare. Penelitian ini bertujuan untuk mengetahui aktivitas antibakteri ekstrak, fraksi n-heksana, etil asetat dan air daun senduduk bulu terhadap *Staphylococcus aureus* ATCC 25923 dan *Escherichia coli* ATCC 25922, fraksi teraktif dan nilai KBM serta KBM.

Daun senduduk bulu diekstraksi dengan pelarut etanol 96%, di fraksinasi menggunakan pelarut n-heksana, etil asetat dan air. Ekstrak dan fraksi diuji antibakteri dengan metode difusi, konsentrasi 20%, 10% dan 5% dan metode dilusi konsentrasi 20%, 10%, 5%, 2,5%, 1,25%, 0,625%, 0,312%, 0,156%, 0,078% dan 0,039%. Data yang diperoleh dilakukan analisa statistik menggunakan two way ANOVA dilanjutkan uji Tukey.

Hasil penelitian menunjukkan bahwa ekstrak dan fraksi daun senduduk bulu mempunyai aktivitas antibakteri terhadap *Staphylococcus aureus* ATCC 25923 dan *Escherichia coli* ATCC 25922. Fraksi etil asetat daun senduduk bulu konsentrasi 20% memiliki aktivitas antibakteri teraktif, Konsentrasi Bunuh Minimum (KBM) sebesar 0,625% terhadap *Staphylococcus aureus* ATCC 25923 dan sebesar 1,25% terhadap *Escherichia coli* ATCC 25922.

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**Kata kunci :** Daun senduduk bulu, *Staphylococcus aureus* ATCC 25923, *Escherichia coli* ATCC 25922, antibakteri.

## ABSTRACT

**ARVIAN, D.W., 2019, TEST OF THE ANTIBACTERIAL ACTIVITIES OF EXTRACT, n-HEKSANA, ETHYL ASSETAT AND WATER FRACTIONS OF SENDUDUK BULU [*Clidemia hirta* (L. D. DON] AGAINST *Staphylococcus aureus* ATCC 25923 AND *Escherichia coli* ATCC 25922, THESIS, FACULTY OF PHARMACY, SETIA BUDI UNIVERSITY, SURAKARTA.**

Senduduk bulu plants [*Clidemia hirta* (L. D. Don] is efficacious as a medicine for wounds, bacterial infections and diarrhea. The aim of this study was to determine antibacterial activity of extract, n-hexane, ethyl acetate and water fractions of senduduk bulu leaves against *Staphylococcus aureus* ATCC 25923 and *Escherichia coli* ATCC 25922, the most active fraction, MIC and MBC value.

Senduduk bulu leaves were extracted with ethanol 96% and fractionated using n-hexane, ethyl acetate and water. Antibacterial activities of extract and fractions were tested by diffusion method concentration 20%, 10% and 5% and dilution method concentration 20%, 10%, 5%, 2.5%, 1.25%, 0.625%, 0.312%, 0.156%, 0.078% and 0.039%. The data obtained were carried out statistical analysis using two way ANOVA followed by the Tukey test.

The results showed that the extracts and leaf fractions of senduduk bulu had antibacterial activity against *Staphylococcus aureus* ATCC 25923 and *Escherichia coli* ATCC 25922. The ethyl acetate fraction of senduduk bulu leaves concentration of 20% had the most active antibacterial activity, Minimum Bactericidal Concentration (MBC) of 0.625% against *Staphylococcus aureus* ATCC 25923 and 1.25% against *Escherichia coli* ATCC 25922.

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**Key words:** Senduduk bulu leave, *Staphylococcus aureus* ATCC 25923, *Escherichia coli* ATCC 25922, antibacterial.