AKTIVITAS ANTIBAKTERI EKSTRAK ETANOL KULIT BATANG MANGGIS (*Garcinia mangostana* Linn.) TERHADAP *Bacillus subtilis* DAN *Escherichia coli* ATCC 25922

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ABSTRAK

Telah dilakukan penelitian untuk mengetahui aktivitas antibakteri ekstrak etanol kulit batang manggis (*Garcinia mangostana* Linn.) terhadap bakteri *Bacillus subtillis* dan *Escherichia coli* ATCC 25922. Penelitian dilakukan melalui penentuan diameter daerah hambatan pertumbuhan dengan metode difusi agar. Ekstrak Etanol kulit batang manggis dibuat dengan konsentrasi 50.000, 100.000, 200.000, 400.000, dan 600.000 bpj. Sedangkan larutan pembanding kloramfenikol yang digunakan dengan konsentrasi 80, 120, 160, 200, dan 240 bpj. Hasil penelitian menunjukkan bahwa ekstrak etanol kulit batang manggis pada konsentrasi sampai dengan 600.000 bpj memberikan zona hambatan terhadap pertumbuhan *Bacillus subtilis* sebesar 1,802 cm dan *Escherichia coli* ATCC 25922 sebesar 1,665 cm. Semakin besar konsentrasi ekstrak etanol kulit batang manggis, maka semakin besar diameter daerah hambatan yang terbentuk.

Kata Kunci: Antibakteri**,** *Garcinia mangostana* Linn., *Bacillus subtilis*, *Escherichia coli* , Kloramfenikol.

ANTIBACTERIAL ACTIVITY OF ETHANOL EXTRACT OF MANGOSTEEN BARK (*Garcinia mangostana* Linn.) AGAINST *Bacillus subtilis* AND *Escherichia coli* ATCC 25922

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ABSTRACT

A Research on the antibacterial activity of ethanol extract of mangosteeen bark (*Garcinia mangostana* Linn.) against *Bacillus subtilis* and *Escherichia coli* ATCC 25922 has been carried out. The research was included the determination of the growth inhibition area with the agar diffusion method. Extract concentration used for the study were 50.000, 100.000, 200.000, 400.000, and 600.000 ppm. While the reference solution used chloramphenicol with concentration 80, 120, 160, 200, and 240 ppm. The result of this study showed that ethanol extract of mangosteen bark (*Garcinia mangostana* Linn.) at the concentration up to 600.000 ppm had growth inhibition area for *Bacillus subtilis* were about 1,802 cm and *Escherichia coli* ATCC 25922 were about 1,665 cm. Increasing extract concentration resulted in increasing growth inhibition area.

Keywords: Antibacterial, *Garcinia mangostana* Linn., *Bacillus subtilis*, *Escherichia coli*, Chloramphenicol.