

ABSTRACT

TESTING THE ANTIBACTERIAL ACTIVITY OF NEEM LEAVE Methanol EXTRACT (*Azadirachta indica A. Juss*) AGAINST THE BACTERIA *Bacillus subtilis*

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Neem leaves (*Azadirachta indica A. Juss*) is a herbaceous plant that contains alkaloid, terpenoid, polyphenol, tannin, saponin and flavonoid compounds. In this antibacterial activity test research using paper disc diffusion with the pour plate method with *Bacillus subtilis* bacteria test material. Antibacterial activity test using methanol extract of neem leaves with 5 concentrations (10,000 ppm, 5,000 ppm, 1,000 ppm, 500 ppm, 100 ppm). The results of this study showed that the concentrations of 5,000 ppm and 10,000 ppm could inhibit and kill the test microbes, while the concentrations of 1,000 ppm, 500 ppm and 100 ppm could not form an inhibition zone in the test culture.

Keywords : *Antibacterial activity, Bacillus subtilis, Azadirachta indica A. Juss*