

ABSTRACT

ANTIBACTERIAL ACTIVITY TEST OF METHANOLIC EXTRACT OF MIMBA LEAVES (*Azadirachta Indica Juss*) AGAINST PSEUDOMONAS AERUGINOSA BACTERIA

Muhammad Norazlan Abdillah

*Neem plants have many benefits for human life, including as an appetite enhancer, malaria medicine and antibacterial, Plants that have high antibacterial properties, one of which is the neem plant (*Azadirachta Indica A. Juss*). The neem plant parts used are stem bark, leaves and seeds. Leaf extract, bark extract and neem seed extract have been known to be very active against gram-positive (*Staphylococcus aureus*, *Streptococcus spp*), gram-negative (*Pseudomonas aeruginosa*, *Salmonella spp*, *Coliform spp*, *Escherichia coli*) bacteria. The results showed an inhibition zone formed around the disc paper at a concentration of 5,000 ppm can inhibit *Pseudomonas aeruginosa* bacteria with an average result of 7.3 mm which means moderate, then at a concentration of 10,000 ppm can inhibit *Pseudomonas aeruginosa* bacteria with an average result of 12 mm which means strong. As for the negative control DMSO 10% does not form an inhibition zone around the disc surface media while for the positive control that uses Cefadroxil antibiotic can inhibit the growth of *Pseudomonas aeruginosa* bacteria with an average result of 20.6 mm which means very strong.*

Keywords: Neem plants; antibacterial activity; *Pseudomonas aeruginosa*