

ABSTRACT

Test the Antibacterial of Neem Leaf (*Azadirachta indica* A. Juss) Against *Pseudomonas aeruginosa* using Percollation Method

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*The purpose of this study was to determine the inhibitory ability of neem leaves (*Azadirachta indica* A. Juss) against the growth of *Pseudomonas aeruginosa* bacteria. The extraction method used in this study was percolation with 3 concentrations of neem leaf extract (2%, 4%, and 6%) and was repeated 6 times, with sterile distilled water as a negative control. The results of the test solutions with concentrations of 2%, 4%, and 6% resulted in an average zone of inhibition that was categorized as being 6.4 mm, 6.9 mm, and 7.3 mm. So that it can inhibit the growth of *Pseudomonas aeruginosa* bacteria, while the results in the negative control were 0 mm, so it was classified as weak. In conclusion, neem leaf extract (*Azadirachta indica* A. Juss) which was extracted using the percolation method with 96% ethanol solvent had antibacterial activity so that it could inhibit the growth of *Pseudomonas aeruginosa* bacteria.*

Keywords: *Neem; Pseudomonas aeruginosa*