

ABSTRACT

TEST OF THE INHIBITORY ACTIVITY OF NEEM LEAVES (*Azadirachta indica* A. Juss.) AGAINST *Pseudomonas aeruginosa* BY THE SOXHLET METHOD

Wahyu Sri Subaini

*The purpose of this study was to determine the inhibitory activity of neem leaves (*Azadirachta indica* A. Juss.) against *Pseudomonas aeruginosa* using the soxhlet method. In this study, neem leaves (*Azadirachta indica* A. Juss.) were extracted by the soxhlet method using 96% ethanol as solvent. Inhibition testing was carried out using the Kirby Bauer method, in this method using 3 concentrations, namely 1%, 2%, and 3% with 10% DMSO as a negative control against *Pseudomonas aeruginosa* bacteria. The conclusion in this study was that neem (*Azadirachta indica* A. Juss.) leaves with concentrations of 1%, 2%, 3%, and the use of negative control had weak inhibitory activity on *Pseudomonas aeruginosa* bacteria. Based on the research that has been done, it can be said that neem leaf extract (*Azadirachta indica* A. Juss.) using the soxhlet method has weak inhibitory activity against *Pseudomonas aeruginosa*.*

Keywords: *Inhibitory power, neem leaves, *Pseudomonas aeruginosa**