

ABSTRACT

TEST ACTIVITY OF THE RESPONSIBILITY OF NEMBA LEAF EXTRACT (Azadirachta indica A. Juss.) AGAINST Bacillus subtilis USING SOXHLET METHOD

The purpose of this study was to determine the inhibitory activity of neem leaves (Azadirachta indica A. Juss.) against Bacillus subtilis bacteria using the Soxhlet method. Inhibition testing was carried out using the Kirby Bauer method, in this method using 3 concentrations, namely 1%, 2%, and 3% with sterile distilled water as a negative control against Bacillus subtilis bacteria. It can be concluded that neem leaf has moderate effectiveness against Bacillus subtilis bacteria and weak effectiveness on negative control. Based on the research that has been done, it can be said that neem leaf extract using the Soxhlet method has inhibitory activity against the bacterium Bacillus subtilis.

Keywords : *Bacillus subtilis, Resistance test, Neem leaves*