## **ABSTRACT**

## TEST OF ANTIBACTERIAL INHIBITORY ACTIVITY OF NEEM LEAVES (Azadirachta indica A. Juss) AGAINST Escherichia coli BY PERCOLATION METHOD

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The purpose of this study was to determine the activity of the antibacterial inhibitory power of neem leaves (Azadirachta indica A. Juss) against Escherichia coli bacteria using the percolation method. In this study, neem leaf extraction (Azadirachta indica A. Juss) was carried out using the percolation method with a 96% ethanol solvent. Inhibition testing is carried out by the diffusion method of disc paper. The method uses 3 concentrations, namely 1%, 2%, 3%, and DMSO 10% as negative controls. The average results of all three concentrations were obtained; 0.25 mm (1%); 0.8 mm (2%); 1.98 mm (3%); and negative control of 0 mm (DMSO 10%) with a zone diameter of weak ability to the growth of Escherichia coli bacteria. The conclusions in this study were neem leaf extract (Azadirachta indica A. Juss) extracted using the percolation method with 96% ethanol solvent showing an inhibitory zone against the growth of Escherichia coli.

Keywords: Antibacterial, neem leaves, Escherichia coli