

## **ABSTRACT**

### **ANTIBACTERIAL ACTIVITY RESISTANCE TEST OF MIMBA EXTRACT (*Azadirachta indica* A. Juss) to *Escherichia coli* Bacteria WITH MACERATION METHOD**

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The aim of this study was to determine the variation in concentration of the administration of neem extract on the growth of *Escherichia coli* bacteria. In testing the antibacterial inhibitory activity the method used was the paper disc method with the concentrations used were 0%, 3%, 5%, and 7% with 5 replications and incubated at 37°C for 24 hours.

The results showed that the average area of the inhibition zone obtained at 0% concentration was 0 mm, 3% concentration was 1,38 mm in the weak category, 5% concentration was 2,54 mm in the weak category, and the 7% concentration was 8,4 mm. medium category. Further research is needed to determine the leaf extract of neem (*Azadirachta indica* A. Juss) using the maceration method with ethanol solvent on the growth of *Escherichia coli* bacteria so that it can be accepted by the community as traditional medicine.

**Keywords :** Neem , *Escherichia coli*, Antibacterial inhibitory activity.