

## **ABSTRACT**

### **ANTIBACTERIAL ACTIVITY TEST LEAVES OF NEMBA (*Azadirachta indica* A. Juss) AGAINST *Escherichia coli* WITH SOXHLET METHOD**

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The purpose of this study was to determine the inhibitory activity of neem leaves on the growth of *Escherichia coli* bacteria. In this study, neem leaves (*Azadirachta indica* A. Juss) were extracted using the soxhlet method using 96% ethanol as solvent. In this study, the inhibition test was carried out using the paper disc diffusion method (*Kirby Bauer*) using 3 concentration treatments (1%, 2%, and 3%) using DMSO 10% as a negative control. The conclusion in this study is that neem leaves have weak effectiveness against *Escherichia coli* bacteria with concentrations of 1%, 2%, 3% and weak effectiveness on negative controls. Based on the research that has been done, it can be said that neem leaf extract using the soxhlet method has inhibitory activity against *Escherichia coli* bacteria.

**Keywords:** *Antibacterial, neem leaves, Escherichia coli.*