

**ANTIBACTERIAL ACTIVITY OF MIMBA LEAF EXTRACT
(*Azadirachta indica* A. Juss) AGAINST *Escherichia coli*
BY DILUTION METHOD**

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ABSTRACT

Escherichia coli is generally treated with antibiotics, but the use of antibiotics that cause resistance and expensive to be a control for breeders. So it is must to find an alternative treatment of the utilization of plants that contain antibacterial. Ingredients in mimba leaves such as *azadirachtin*, *flavonoid*, *saponin*, *tannins* and *nimbi* have antibacterial. Properties an antibacterial test of mimba leaf extract (*Azadirachta indica* A. Juss) was done on the growth of *Escherichia coli*. Mimba leaf powder was extracted with 96% ethanol solvent by maceration then concentrated by using *rotatory evaporator* to produce viscous extract. This research use dilution method in vitro. The concentrations used are 2%, 3%, 4%, 5% and 6%. Dilution method for determining MIC (*Minimum Inhibitory concentration*) and MBC (*Minimum Bactericidal Concentration*) the result show that mimba leaf extract antibacterial properties, , the results obtained are at a concentration of 5% mimba leaf extract capable of kill *Escherichia coli* in vitro.

Keywords : Mimba (*Azadirachta indica* A. Juss) leaf extract, antibacterial, *Escherichia coli*, dilution Method.