

ANTIBACTERIAL ACTIVITY of MENIRAN EXTRACTS (*Phyllanthus niruri* Linn.) AS an ALTERNATIVE to SUBSTITUTE the ENROFLOXACIN AGAINST *Escherichia coli* on LAYER CHICKEN in IN VITRO

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ABSTRACT

The aimed of this research was to antibacterial activity of meniran extracts (*Phyllanthus niruri* Linn.) as an alternative to substitute the antibiotic Enrofloxacin against *Escherichia coli* on Layer Chicken in *In Vitro*. The method in this research used dilution method, there were Minimum Inhibitory Concentration (MIC) to observe the potency inhibition of bacterial and Minimum bactericidal Concentration (MBC) to observe the potency to kill bacteria. This study used 6 treatments with 4 replications. Concentrations used in Extracts Meniran was 50%, 25%, 12.5%, 6.25%, 3.125%, 1.56% and Enrofloxacin used one concentration was 0.05%. This research showed that the minimum dose meniran extract most effective to killing bacteria *Escherichia coli* at a concentration of 25%, while giving enrofloxacin at doses of 0.05% is not yet capable of killing *Escherichia coli*. This research showed that extracts of meniran have antibacterial activity better than enrofloxacin. Adduction extract meniran had killed potential against *Escherichia coli* though requires a higher dose compared to Enrofloxacin.

Keywords : *extract Meniran (Phyllanthus niruri* Linn), Enrofloxacin, *Escherichia coli, In Vitro*