

**ANTIMICROBIAL ACTIVITY OF *Channa striatus*  
EXTRACT AGAINSTS *Staphylococcus aureus* AND *Eschericia  
coli***

**HAIROL ASWAT BIN SABTU**

**BACHELOR OF SCIENCE (Hons.) BIOLOGY  
FACULTY OF APPLIED SCIENCES  
UNIVERSITI TEKNOLOGI MARA**

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## ABSTRACT

### ANTIMICROBIAL ACTIVITY OF *Channa striatus* EXTRACT ON *Staphylococcus aureus* AND *Escherichia coli*

Snakehead fish (*Channa striatus*) is an indigenous, predatory freshwater fish of Malaysia. It is a common food fish among the local populace with traditionally identified pharmacological benefits in treating wound and pain. A research was carried out to determine the inhibition effect of *C. striatus* extract on *S. aureus* and *E. coli*. This is essential in order to provide information for their effectiveness against bacteria causing wound infection. In this research, streptomycin was used as positive control while distilled water was used as negative control. Disc diffusion method was applied to observe the production of inhibition zone of *S. aureus* and *E. coli* on nutrient broth agar plate. There is a significance different effect between acidic mucus and acidic tissue extract for both fish. Therefore, this is the value to determine the comparative outcome of the results. The significance of this study were definitely provide an input on *C. striatus* extract through the antimicrobial properties that lead to the contribution to medical field. From experiment conducted founded that acidic tissue nor mucus extract of *C. striatus* did produce inhibition effects on the growth of gram positive bacteria *S. aureus* and negative bacteria *E. coli* on the nutrient broth agar plate through disc diffusion method. Statistical analysis showed that the antimicrobial activity against *E. coli* was better than *S. aureus* in acidic tissue extract (3% acetic acid) and acidic mucus extract (3% acetic acid) of *C. striatus* due to *P*-value of 0.223 was more higher than *S. aureus* that has *P*-value of 0.152. When *E.coli* and *S. aureus* are intercept they are highly significance by the *P*-value of 0.00. The alternate hypothesis was accepted due to there was significance different.