

ABSTRACT
TURMERIC EXTRACT EFFECTIVENESS WHITE
(*Curcuma domestica .Vall*) FOR TREATMENT OF BACTERIAL
INFECTIONS IN *Vibrio alginolyticus* MOUSE GROUPER
(*Cromileptes altivelis*)

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This study were aimed to (1) To study the effectiveness of white turmeric extract *Curcuma domestica .Vall* in treating a mouse *Cromileptes altivelis* from the attack of *Vibrio alginolyticus.*, (2) To study the dose of the best white turmeric extract in treating a *Cromileptes altivelis* from attacks by bacteria *Vibrio alginolyticus.* (3) To study the effect of white turmeric extract against the survival rate Mouse grouper (*Cromileptes altivelis*), which in the infection of *Vibrio alginolyticus.*

The experiment was arranged with a Completely Randomized Design (CRD). Preliminary research conducted LD50 test to determine the pathogenic bacterium *V. alginolyticus* which caused the death of test fish as much as 50%. In vitro test was done to see anti-bacterial activity of white turmeric extract against *V. alginolyticus.* From this test, the optimum concentration of white turmeric extract the effective tackling of *V. Alginolyticus* was obtained was obtained Test in vivo was carried out to determine the effect of the bacteria *V. alginolyticus* against *Cromileptes altivelis* healing response in *Cromileptes altivelis* after giving white turmeric extract.

Results showed that (1) MIC and MBC values obtained by concentration of 0.25% and 0.75%, where the concentration of 0.75% was the effective dose of white turmeric extract in tackling the *V. alginolyticus* (2) The best treatment dose of the best survival rate of *Cromileptes altivelis* was 1% of white turmeric extract (3) the Survival Rate of mouse grouper wasn't effected by white turmeric extract treatment significantly

Key words: Mouse Grouper, *Vibrio alginolyticus*, white turmeric.