

ABSTRACT

IDENTIFICATION OF PATHOGENIC BACTERIA ON THE CLOWN FISH (*Amphiprion percula*)

By

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*The research to identify the type of pathogenic bacteria on the clownfish (*Amphiprion percula*) was conducted to initiation the preventive action and treatment of infection the bacterial disease. The research was conducted in the Laboratory of Aquaculture, Agricultural Faculty, Lampung University and Laboratory of Testing, The Fish Quarantine Station Quality Control and Safety of Fishery Product Class I Lampung. Clownfish samples from Main Center of Mariculture Development of Lampung that was random taken by observing the clinical signs of the disease appear. Bacteria were isolated from five different organs are wound, gills, liver, kidneys and digestive tract. Bacteria isolated and then purified before test Koch's Postulates. Koch's Postulates test was done by injecting candidate of pathogenic bacteria isolates to the healthy clownfish with dose 10^9 CFU/ml and observed clinical signs of the disease appear during the seven days. The isolated bacteria of Koch's Postulates test were manual identified by observing the morphology of colonies, morphology of bacteria and biochemical character. The results showed that there were three types of pathogenic bacteria on the clownfish are *Vibrio alginolyticus*, *Acinetobacter calcoaceticus* and *Pseudomonas cepacia*. The clinical signs that arise due infection of three pathogenic bacteria in early infection have in common. Bacteria *V. alginolyticus* from digestive tract, whereas bacteria *A. calcoaceticus* and *P. cepacia* from liver.*

Key word : clinical signs, clownfish, pathogenic bacteria, Koch's Postulat test