ABSTRACT

THE UTILIZATION OF HEAD ANCHOVIES MEAL AS FISH FEED INGREDIENT FOR CLOWN FISH (Amphiprion percula)

By

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One of important factor in the clown fish culture is the availability of adequate feed. The Clown fish (Amphiprion percula) is a type of ornamental fish in the sea water that has high economic value and is widely cultivated. However, fish farmers often experience problems of high feed prices because the feed used is imported. One of solution is to utilize the head of anchovy meal as ingredient feed for clown fish. The purpose of this research is to get feed formulation for clown fish. This research used the completed random design for 5 times treatment and three times repeated: A (fish meal 100%), B (anchovy head fish meal 25% + fish meal 75%), C (anchovy head fish meal 50% + fish meal 50%), D (anchovy head fish meal 75% + fish meal 25%) and E (anchovy head fish meal 100%). The parameters observed are growth (weight; length), length growth, increased colors brightness, Feed Conversion Ratio (FCR), Survival Rate (SR), and water quality. The data obtained was analyzed by ANOVA and continued with BNT test. From of all parameters showed that the feed B (anchovy head fish meal 25% + fish meal 75%) gives a real impact on the parameters of observation. The feed B produces highest growth is 1.86 grams, the length is increase of 1.77 cm, The value of brightness level of high color is 3.33, Survival Rate (SR) is 100%, and the FCR is 2.14. As during the experiment, water temperatures ranged 27-28 °C, pH ranged 7.68-8.26, DO ranged 8.7-10.2 ppm, salinity ranged 32-33 ppt, and ammonia ranged from 0.46-0.50 mg/l.

Keywords: clown fish, alternative materials, the head of anchovy meal, Spirulina sp., meal.