

## **ABSTRACT**

### **THE INFLUENCE OF THE SUBSTITUTION OF FISH MEAL WITH TRASH FISH MEAL ON GROWTH OF TILAPIA (*Oreochromis niloticus*)**

**By**

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Tilapia (*Oreochromis niloticus*) was a freshwater fish that was high economic value and many cultivated, but farmers often have high meal prices because raw materials such as fish meal are still imports. It was necessary to find an alternative local raw materials such as trash fish meal that can replace the fish meal. This study aims to examine the effect of the substitution of fish meal with trash fish meal on the meal and to know the proportion of trash fish meal the most good for the growth of tilapia. This research uses a Completely Randomized Design with 6 treatments and 3 replications A (commercial pellet/control), B (100% fish meal), C (25% trash fish meal + 75% fish meal), D (50% trash fish meal + 50% fish meal), E (75% trash fish meal + 25% fish meal), F (100% trash fish meal). The data obtained was analyzed in ANOVA and continued with the test range of Duncan. Parameter observed were growth, *Feed Conversion Ratio* (FCR), and *Protein Efficiency Ratio* (PER). All parameters showed that the used of trash fish meal in artificial diets in E treatment was significant compared to both growth and PER, while a low FCR to the other treatment.

**Keywords:** *tilapia fish, trash fish meal, growth, FCR, PER*