

## **ABSTRACT**

### **STUDY OF ADDING METHIONINE IN FEED IN THE GROWTH OF COBIA *Rachycentron canadum* (Linnaeus, 1766) AT FINGERLING STAGE**

**By**

**Risa Ristiawati**

This research aimed to study the effect of adding methionine in feed on the growth of cobia in fingerling stage. The experimental design in this study used a complete randomized design with 2 treatment and 3 replications in each treatment. These treatments were the addition of methionine in feeds of 0,15% and 0,35%, also equipped with commercial feed treatment as a comparison. This experiment used 9 tanks 1,5 m<sup>3</sup>each and it contained 50 fish for each, with the average body weight 28.09±0.98 grams and reared for 45 days. The result showed that the effect of adding methionine on weight gain, daily growth rate, feed conversion ratio, protein retention and survival rate were not significantly different. However, there was a significant difference in methionine retention. The addition of methionine compared to the commercial feed, treatment showed relatively less performance in fish growth.

**Key words** : *cobia fish, methionine, growth.*

## **ABSTRAK**

### **KAJIAN PENAMBAHAN METIONIN DALAM PAKAN TERHADAP PERTUMBUHAN IKAN KOBIA *Rachycentron canadum* (Linnaeus, 1766) FASE PENGGELONDONGAN**

**Oleh**

**Risa Ristiawati**

Penelitian ini bertujuan untuk mengkaji pengaruh penambahan metionin dalam pakan terhadap pertumbuhan ikan kobias fase penggelondongan. Rancangan percobaan pada penelitian ini menggunakan rancangan acak lengkap dengan 2 perlakuan dan 3 kali ulangan. Pada penelitian ini menggunakan 9 tanki dengan kapasitas 1,5 m<sup>3</sup> masing-masing 50 ikan uji dengan berat tubuh rata-rata 28,09±0,98 gram selama 45 hari pemeliharaan. Hasil menunjukkan bahwa pengaruh penambahan metionin tidak berbeda nyata terhadap penambahan bobot, laju pertumbuhan harian, rasio konversi pakan, retensi protein dan tingkat kelangsungan hidup. Meskipun demikian penambahan metionin menunjukkan hasil yang berbeda nyata terhadap retensi metionin. Perlakuan penambahan metionin menunjukkan kinerja pertumbuhan yang lebih rendah dibandingkan dengan pakan komersial.

**Kata kunci :** *kobia, methionin, pertumbuhan.*