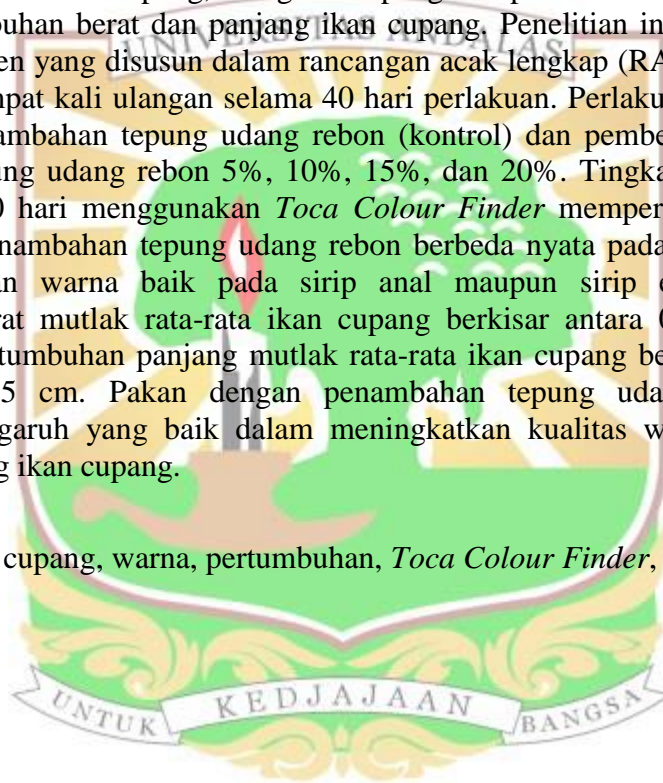


ABSTRAK

Penelitian ini dilaksanakan bulan Februari sampai April 2016. Pembuatan pelet ikan bertempat di Balai Benih Ikan (BBI) Bungus, Kelurahan Bungus Timur, Kecamatan Bungus Teluk Kabung, Padang. Pemeliharaan ikan dan penelitian dilakukan di Laboratorium Riset Fisiologi Hewan, Jurusan Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Andalas, Padang. Tujuan penelitian ini adalah mengetahui pengaruh pemberian tepung udang rebon terhadap kualitas warna (sirip anal dan sirip ekor) pada ikan cupang, mengetahui pengaruh pemberian tepung udang rebon terhadap pertumbuhan berat dan panjang ikan cupang. Penelitian ini dilakukan dengan metode eksperimen yang disusun dalam rancangan acak lengkap (RAL) terdiri dari lima perlakuan dan empat kali ulangan selama 40 hari perlakuan. Perlakuan yaitu pemberian pakan tanpa penambahan tepung udang rebon (kontrol) dan pemberian pakan dengan penambahan tepung udang rebon 5%, 10%, 15%, dan 20%. Tingkat perubahan warna diamati setiap 10 hari menggunakan *Toca Colour Finder* memperlihatkan pemberian pakan dengan penambahan tepung udang rebon berbeda nyata pada taraf 5% terhadap tingkat perubahan warna baik pada sirip anal maupun sirip ekor ikan cupang. Pertumbuhan berat mutlak rata-rata ikan cupang berkisar antara 0,175 gram hingga 0,307 gram. Pertumbuhan panjang mutlak rata-rata ikan cupang berkisar antara 0,550 cm hingga 0,925 cm. Pakan dengan penambahan tepung udang rebon 15-20% memberikan pengaruh yang baik dalam meningkatkan kualitas warna, pertumbuhan berat, dan panjang ikan cupang.

Kata kunci : Ikan cupang, warna, pertumbuhan, *Toca Colour Finder*, udang rebon.



ABSTRACT

The research on "The Improvement of Color Quality and Growth Rate of Betta fish (*Betta splendens* Regan, 1910) through Feeding Enrichment with Krill (*Acetes indicus* H. Milne Edwards, 1830) Flour as Carotene Source" had been conducted from February until April 2016. The making of fish pellets was in Balai Benih Ikan (BBI) Bungus, Subdistrict Bungus Teluk Kabung, Padang. Fish raising and research were performed in Animal Physiology Laboratory, Biology Department, Faculty of Mathematics and Natural Science, Andalas University. The purposes of this research were to learn the effect of krill meal powder on the quality of body color (anal and caudal fins) and growth rate of Betta fishes. It used experimental method with completely random design (CRD) consisted of five treatments and four replications for 40 days of experimentation. Treatments were divided into feeding without krill meal powder addition (control); feeding with addition of 5%, 10%, 15% and 20% of krill meal powder. Color improvement was quantified every 10 days using Toca Color Finder, indicated that the feeding enrichment with krill meal powder had significant effect on color enhancement of anal and caudal fins of Betta fishes. Absolute weight increment ranged between 0.175 - 0.307 g. Increasing of absolute length ranged between 0.550 - 0.925 cm. Feeding with 15-20% enrichment of krill meal powder gave positive effect on improvement of color quality, weight increment and length of Betta fish.

Keywords : Betta fish, color improvement, growth increment, krill meal powder.

