Pengaruh Penambahan Ekstrak Kunyit Pada Pakan Terhadap Pertumbuhan Benih Ikan Bandeng (*Chanos chanos*).

MUHAMMAD DANDI IRAWAN
muhammaddandiirawan@gmail.com
Program Studi Akuakultur, Fakultas Pertanian
Universitas Malikussaleh

ABSTRAK

Penelitian ini bertujuan untuk untuk melihat pengaruh penambahan ekstrak kunyit (*Curcumin domestica*) pada pakan terhadap pertumbuhan benih ikan bandeng (*Chanos chanos* Penelitian ini dilaksanakan pada tanggal 26 Maret- 22 April 2025. Penelitian dilakukan di Laboratorium Hatchery dan Teknologi Budidaya, Fakultas pertanian, Universitas Malikussaleh. Metode yang digunakan dalam penelitian ini yaitu metode eksperimental untuk mengetahui pertumbuhan benih ikan bandeng dengan perberian pakan yang ditambah dengan ekstrak kunyit. Penelitian ini menggunakan rancangan acak lengkap (RAL) yang terdiri dari 4 perlakuan dan 3 kali ulangan adapun perlakuan., dengan perlakuan penelitian sebagai berikut : Perlakuan A : Penambahan ekstrak kunyit 0 %, Perlakuan B : Penambahan ekstrak kunyit 10 % , Perlakuan C Penambahan ekstrak kunyit 15 % , Perlakuan D: Penambahan ekstrak kunyit 20 % . Data yang dikumpulkan berupa data aroma pakan, pertambahan berat dan panjang, kelangsungan hidup, rasio konversi pakan dan kualitas air. Prosedur penelitian persiapan wadah, persiapan ikan uji, aklimatisasi, pembuatan ekstrak kunyit, pencampuran ekstrak kunyit pada pakan, pemberian pakan, pengelolaan kualitas air**.** Hasil penelitian menunjukkan bahwa Pemberian ekstrak kunyit pada pakan dengan dosis berbeda memberi pengaruh sangat nyata terhadap pertambahan panjang dan pertambahan berat, rasio konversi pakan sedangkan tingkat kelangsungan hidup tidak memberikan pengaruh nyata. Hasil terbaik terdapat pada perlakuan D dengan pertambahan panjang 4,40 cm dan pertambahan berat nilai rata-rata 2,41 gram. dan perlakuan terendah terdapat pada perlakuan A dan pertambahan panjang 3,21 cm dan pertambahan berat 1,91 gram. Rasio konversi pakan terbaik terdapat pada perlakuan D dengan nilai fcr 1,18 dan perlakuan terendah terdapat pada perlakuan A yaitu 1,42. Tingkat kelangsungan hidup terbaik terdapat pada semua perlakuan yaitu 100%.Nilai kualitas air secara keseluruhan selama penelitian suhu berkisar 26,2- 29^0C. pH 6,5-7,2 dan oksigen terlarut 4,76,1mg/L dan Salinitas 17-18 ppt.

Kata kunci: bandeng, kunyit, pakan dan pertumbuhan

The Effect Of Adding Turmeric Extract To Feed On The Growth Of Milkfish (Chanos chanos) Seeds.

MUHAMMAD DANDI IRAWAN
muhammaddandiirawan@gmail.com
Aquaculture Study Program, Faculty of Agriculture
Malikussaleh university

Abstract

This study aims to see the effect of adding turmeric extract (Curcumin domestica) to feed on the growth of milkfish seeds (Chanos chanos). This study was conducted on March 26-April 22, 2025. The study was conducted at the Hatchery and Cultivation Technology Laboratory, Faculty of Agriculture, Malikussaleh University. The method used in this study is an experimental method to determine the growth of milkfish seeds by giving feed supplemented with turmeric extract. This study used a completely randomized design (CRD) consisting of 4 treatments and 3 replications as for the treatment. The effect of adding turmeric extract (Curcuma domestica) to artificial feed with different doses on the growth and efficiency of milkfish feed utilization, with the following research treatments: Treatment A: Addition of 0% turmeric extract, Treatment B: Addition of 10% turmeric extract, Treatment C: Addition of 15% turmeric extract, Treatment D: Addition of 20% turmeric extract. The data collected included feed aroma, weight and length gain, survival rate, feed conversion ratio, and water quality. The research procedures included container preparation, test fish preparation, acclimatization, turmeric extract preparation, mixing turmeric extract with feed, feeding, and water quality management. The results of the study showed that the administration of turmeric extract in feed with different doses had a very significant effect on the increase in length, weight gain, feed conversion ratio while the survival rate did not have a significant effect. The best results were found in treatment D with an increase in length of 4.40 cm and an average increase in weight of 2.41 grams. and the lowest treatment was in treatment A and increased in length 3.21 cm and increased in weight 1.91 grams The best feed conversion ratio was in treatment D with an average value of 1.18 grams and the lowest treatment was in treatment A, namely 1.42 grams. The best survival rate was in all treatments, namely 100%. The overall water quality value during the study ranged from 26.2-290C. pH 6.5-7.2 and dissolved oxygen 4.76.1mg/L and Salinity 17-18 ppt.

Keywords: milk, turmeric , feed and growth