

INTISARI

Pengaruh Penambahan Ampas Wortel dalam Pakan terhadap Pertumbuhan dan Warna Ikan Golden Molly Ballon (*Poecilia latipinna*, Lesueur 1821)

Ikan *Golden Molly Ballon* (*Poecilia latipinna*, Lesueur 1821) merupakan salah satu ikan hias yang sangat banyak dibudidayakan memiliki keindahan bentuk dan warna. Penelitian ini dilakukan pada bulan Juli 2024 sampai dengan Agustus 2024 di Departemen Perikanan, Fakultas Pertanian, Universitas Gadjah Mada. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian ampas wortel terhadap pertumbuhan dan warna ikan *golden molly ballon*. Penelitian ini menggunakan Rancangan Acak Lengkap empat perlakuan dan tiga ulangan. Perlakuan tersebut meliputi P0: Kontrol (pakan tanpa ampas wortel); P1: Pemberian ampas wortel 5 % dalam pakan; P2: Pemberian ampas wortel 10 % dalam pakan; P3: Pemberian ampas wortel 15 % dalam pakan. Parameter pertumbuhan seperti sintasan, data pertumbuhan mutlak berbasis berat dan panjang, data laju pertumbuhan spesifik berbasis berat dan panjang, serta warna diuji dengan analisis variansi dan apabila ada beda nyata dilanjutkan dengan uji DMRT dan *Trend Comparison*. Kandungan nutrisi pakan dan parameter kualitas air dianalisis menggunakan metode deskriptif. Hasil penelitian menunjukkan bahwa pemberian ampas wortel meningkatkan pertumbuhan berat, panjang, dan kecerahan warna ikan *golden molly ballon*. Pertumbuhan ikan *golden molly ballon* tertinggi terdapat pada perlakuan P3 (pemberian 15% ampas wortel dalam pakan) dengan sintasan 100%, pertumbuhan mutlak berbasis berat $0,42 \pm 0,01$ g, pertumbuhan mutlak berbasis panjang $0,48 \pm 0,03$ cm, laju pertumbuhan spesifik berbasis berat $1,86 \pm 0,03$ %/hari, laju pertumbuhan spesifik berbasis panjang $0,52 \pm 0,02$ %/hari, dan kecerahan warna sebesar $14,46 \pm 0,45$. Kualitas air pada perlakuan P3 menunjukkan kisaran DO $5,38 \pm 0,06$ mg/L; pH $7,94 \pm 0,02$; dan suhu $26,28 \pm 0,10$.

Kata kunci: ampas wortel, ikan *golden molly ballon*, pertumbuhan, warna

ABSTRACT

Effect of Adding Carrot Waste in Feed on the Growth and Color of Golden Molly Ballon Fish (*Poecilia latipinna*, Lesueur 1821)

Golden Molly Ballon Fish (*Poecilia latipinna*, Lesueur 1821) is one of the ornamental fish that is very widely cultivated it has has a beautiful shape and color. This research was conducted from July 2024 to August 2024 at the Department of Fisheries, Faculty of Agriculture, Universitas Gadjah Mada. This study aims to determine the effect of carrot waste on the survival, growth and color of golden molly balloon fish. This study used a Complete Random Design of four treatments and triplicates. The treatment includes P0: Control (feed without carrot waste); P1: 5% carrot waste in feed; P2 : carrot waste 10% in feed; P3 : 15% carrot waste in feed. Growth parameters such as survival, weight- and length-based absolute growth data, weight- and length-based specific growth rate data, and color were tested with analysis of variance and if proven to be significant, the Duncan Multiple Range Test and trend comparison test was conducted. Feed nutrient content and water quality parameters were analyzed using a descriptive method. The results showed that the application of carrot waste increased the growth of the weight, length, and color brightness of the golden molly balloon fish. The highest growth of golden molly balloon fish was found in P3 (15% carrot waste in feed) with 100% survival, weight-based absolute growth of 0.42 ± 0.01 g, length-based absolute growth of 0.48 ± 0.03 cm, weight-based specific growth rate of 1.86 ± 0.03 %/day, specific growth rate based on length 0.52 ± 0.02 %/day, and color brightness of 14.46 ± 0.45 . The water quality in the P3 treatment showed a range of DO 5.38 ± 0.06 mg/L; pH 7.94 ± 0.02 ; and temperature 26.28 ± 0.10 .

Keywords: carrot waste, golden molly ballon fish, growth, color