

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan larutan daun pepaya dan kunyit pada pakan komersial terhadap profil darah meliputi total eritrosit, hemoglobin, glukosa darah dan sintasan ikan nilem (*Osteochillus vittatus*). Penelitian ini menggunakan metode eksperimental Rancangan Acak Lengkap (RAL) yang terdiri dari 4 perlakuan (P0: 0 mL/kg pakan; P1: 50 mL/kg pakan; P2: 75 mL/kg pakan; dan P3: 100 mL/kg pakan) dengan 3 kali ulangan. Data yang diperoleh dianalisis menggunakan uji statistik ANOVA. Hasil total eritrosit, hemoglobin, glukosa darah dan sintasan menunjukkan nilai ($P>0,05$) yang berarti penambahan larutan daun pepaya dan kunyit tidak berbeda nyata terhadap profil darah dan sintasan ikan nilem. Total eritrosit yang diperoleh berkisar $1,9\pm0,88$ - $3,61\pm1,67\times10^6$ sel/mm³. Kadar hemoglobin yang diperoleh berkisar $9,36\pm1,64$ - $11,23\pm0,17$ g/dL. Nilai glukosa darah yang diperoleh berkisar $96,33\pm18,87$ - $114,67\pm25,89$ mg/dL. Pada parameter sintasan, seluruh perlakuan menunjukkan hasil sebesar 100%, sedangkan kontrol 90%. Hasil kualitas air berada dalam kisaran optimal dengan suhu berkisar antara 25–28 °C, pH 7,64–8,68; dan DO 6,0–6,4 mg/L. Penambahan larutan daun pepaya dan kunyit 50 mL, 75 mL, dan 100 mL pada pakan komersial menunjukkan profil darah meliputi total eritrosit, hemoglobin, glukosa darah dan sintasan dalam nilai kisaran yang normal.

Kata kunci: daun pepaya, kunyit, profil darah, sintasan, ikan nilem

ABSTRACT

This study aims to determine the effect of adding papaya leaf and turmeric solutions to commercial feed on blood profiles, including total erythrocytes, hemoglobin, blood glucose, and survival of tilapia (*Osteochillus vittatus*). This study employed a completely randomized design (CRD) experimental method consisting of four treatments (P0: 0 mL/kg feed; P1: 50 mL/kg feed; P2: 75 mL/kg feed; and P3: 100 mL/kg feed) with three replicates. The data obtained were analyzed using ANOVA. The results for total erythrocytes, hemoglobin, blood glucose, and survival rate showed values ($P>0.05$), The addition of papaya leaf and turmeric extracts did not significantly affect. The total erythrocyte count ranged 1.9 ± 0.88 - $3.61\pm1.67\times10^6$ cells/mm³. Hemoglobin levels 9.36 ± 1.64 - 11.23 ± 0.17 g/dL. Blood glucose levels ranged 96.33 ± 18.87 - 114.67 ± 25.89 mg/dL. For survival rate, all treatments showed a result of 100% and control group showed 90%. Water quality results were within the optimal range with temperatures ranging from 25–28°C; pH 7.64–8.68; and DO 6.0–6.4 mg/L. The addition of 50 mL, 75 mL, and 100 mL of papaya leaf and turmeric solutions to commercial feed showed blood profiles including total erythrocytes, hemoglobin, blood glucose, and survival within normal ranges.

Keywords: *Carica papaya*, *Curcuma longa*, Blood Profile, Survival rate, *Osteochillus vittatus*