

INTISARI

Pemanfaatan Tepung Silase Maggot *Hermetia illucens* Sebagai Bahan Pengganti Tepung Ikan Dalam Formulasi Pakan Lele (*Clarias* sp.)

Penelitian ini bertujuan untuk mengetahui dosis terbaik dari substitusi tepung ikan (TI) dengan tepung silase *maggot* (TSM) terhadap sintasan dan pertumbuhan lele. Penelitian ini dilakukan selama 60 hari pada pertengahan Maret sampai dengan Mei 2024. Penelitian dilakukan dengan metode Rancangan Acak Lengkap dengan menggunakan tiga perlakuan dan tiga ulangan. Perlakuan meliputi P0/kontrol (pakan komersial), P1 (penggunaan 80% TI : 20% TSM), P2 (penggunaan 75% TI : 25% TSM), P3 (penggunaan 70% TI : 30% TSM). Data dianalisis menggunakan Analysis of Variance, apabila ada beda nyata dilakukan uji lanjut menggunakan *one-tailed Dunnett's test* dengan taraf nyata $\alpha=0,05$. Hasil penelitian menunjukkan bahwa substitusi tepung ikan sebesar 80% dengan tepung silase *maggot* sebesar 20% menghasilkan nilai sintasan terbaik sebesar $73,33 \pm 25,17\%$. Substitusi tepung ikan sebesar 75% dengan tepung silase *maggot* sebesar 25% menghasilkan laju pertumbuhan spesifik berbasis panjang sebesar $1,02 \pm 0,04\%/hari$, pertumbuhan mutlak berbasis panjang dan berat masing-masing sebesar $6,48 \pm 0,31$ cm dan $35,83 \pm 8,14$ g, serta rasio konversi pakan sebesar $1,3 \pm 0,24$.

Kata kunci: tepung silase *maggot*, lele, pertumbuhan

ABSTACT

Use of Maggot Silage Meals *Hermetia illucens* as a Substitute for Fish Meal in Feed Formulations for Catfish (*Clarias* sp.)

This research aims to determine the optimal dosage for substituting fish meal (FM) with maggot silage meal (MSM) on the survival and growth of catfish. The study was conducted over 60 days from mid-March to May 2024. The research used a Completely Randomized Design method with three treatments and three replications. The treatments included P0/control (commercial feed), P1 (80% FM : 20% MSM), P2 (75% FM : 25% MSM), and P3 (70% FM : 30% MSM). The data were analyzed using Analysis of Variance, and if significant differences were found, further tests were conducted using one-tailed Dunnett's test with a significance level of $\alpha=0.05$. The results showed that substituting 80% of fish meal with 20% maggot silage meal produced the best survival rate of $73.33 \pm 25.17\%$. The substituting 75% of fish meal with 25% maggot silage meal generate a specific growth rate based on length of $1.02 \pm 0.04\%/day$, absolute growth based on length and weight of 6.48 ± 0.31 cm and 35.83 ± 8.14 g, and a feed conversion ratio of 1.3 ± 0.24 .

Keywords: maggot silage meal, catfish, growth