

Pengaruh Pemberian Dosis Tepung Maggot (*Hermetia illucens*) Yang Berbeda Terhadap Pertumbuhan Udang Vaname (*Litopenaeus vannamei*) Yang Dipelihara Dalam Wadah Terkontrol

The Effect Of Different Dosage Of Maggot (Hermetia Illucens) Flour On The Growth Of White Leg Shrimp (Litopenaeus Vannamei) Reared In Laboratory

Fatma. M¹, Gamal. M. S², Fitria. U³

Fakultas Perikanan Dan Kelautan Universitas Khairun, Ternate

Email: gmsamadan@unkhair.ac.id

ABSTRAK

Udang merupakan salah satu komoditas perikanan di Indonesia yang berkontribusi cukup besar bagi ekonomi perikanan nasional. Pakan merupakan salah satu komponen strategis yang sangat penting dalam menentukan keberhasilan usaha. Tujuan penelitian ini yaitu untuk mengetahui pengaruh pemberian dosis tepung maggot (*H. illucens*) yang berbeda terhadap pertumbuhan udang vaname (*L. vannamei*). Penelitian ini dilaksanakan pada tanggal 9 Juli – 28 Agustus tahun 2021 di UPT Laboratorium Terpadu Universitas Khairun yang bertempat di Kelurahan Sasa Kecamatan Ternate Selatan, Kota Ternate. Penelitian menggunakan rancangan acak lengkap (RAL) terdiri dari empat perlakuan dan tiga kali ulangan. Adapun perlakuan yang dicobakan yaitu Perlakuan A dosis maggot 40%, B dosis maggot 45%, C dosis maggot 50% dan D (kontrol). Penambahan dosis tepung maggot pada media pemeliharaan yang menghasilkan laju pertumbuhan spesifik sebesar 3,79 gram/hari, pertumbuhan berat mutlak 1,62 gram, kelangsungan hidup 90%, FCR 0,83, kualitas air selama penelitian masih berada pada kirsan optimal yaitu DO 6,73-4,84 ppm, suhu 25,95–26,04⁰C, salinitas 15.7-17.42 ppt dan pH 8,14 – 8,30. Dapat disimpulkan bahwa pemberian pakan maggot dengan dosis berbeda tidak berpengaruh terhadap PBM, LPS dan FCR, akan tetapi berpengaruh nyata terhadap SR.

Kata kunci: maggot, pertumbuhan, udang vaname

ABSTRACT

*Shrimp is one of the fishery commodities in Indonesia that contributes quite a lot to the national fishery economy. Feed is one of the strategic components that is very important in determining business success. The purpose of this study was to determine the effect of different doses of maggot flour (*H. illucens*) on the growth of vannamei shrimp (*L. vannamei*). This research was conducted on 9 July – 28 August 2021 at the Integrated Laboratory UPT located in Sasa Village, South Ternate District, Ternate City. The study used a completely randomized design (CRD) consisting of four treatments and three replications. The treatments that were tried were Treatment A with a dose of 40% maggo, B with a dose of 45% maggo, C with a dose of 50% maggo and D (control). The addition of a dose of maggot flour on the maintenance media resulted in a specific growth rate of 3,79 grams/day, an absolute weight growth of 1.62 grams, survival 90%, FCR 0.83, water quality during the study was still at the optimal range, namely DO 6.73-4.84 ppm, temperature 25.95-26.040C, salinity 15.7-17.42 ppt and pH 8.14 – 8.30. It can be concluded that feeding maggot with different doses did not affect PBM, LPS and FCR, but had a significant effect on SR.*

Keywords: *Maggot, Growth, Vaname Shrimp*