

ABSTRACT

GROWTH PERFORMANCE OF SHRIMP POSTLARVA VANNAME *Litopenaeus vannamei* (Boone, 1931) feed with FROZEN *Artemia* and DECAPSULATED *Artemia*

By

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The type of feed given to vaname shrimp postlarva affects the growth and survival. This study aims to examine the level of utilization of *Artemia* frozen and decapsulated *Artemia* feed for growth and survival of vaname shrimp postlarva. The study used a completely randomized design (CRD) with three treatments and three replications. The treatments tested were (A) Frozen *Artemia*, (B) Decapsulated *Artemia*, (C) Frozen *Artemia*+Decapsulated *Artemia*. This research was conducted at PT. Citra Larva Cemerlang, Kalianda, South Lampung by using 6300 PL vaname stadia prawns maintained for 10 days. The parameters observed included growth rate of length and relative weight, feed utilization efficiency, *protein efficiency ratio*, survival rate, and water quality. Based on the results of statistical analysis (ANOVA) and further tests of BNT frozen *Artemia* feed gave the highest results with growth in relative weight 128.06 g, feed utilization efficiency 0.04%, protein efficiency ratio 48.21%, survival rate with a percentage of 56% , and for the relative length growth rate of frozen *Artemia* + decapsulation has the best results of 17.0%

Kata kunci: *Vaname, Artemia, Growth, Frozen, Decapsulated*

ABSTRAK

PERFORMA PERTUMBUHAN POSTLARVA UDANG VANAME *Litopenaeus vannamei* (Boone, 1931) yang diberi PAKAN *Artemia* BEKU dan *Artemia* DEKAPSULASI

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Jenis pakan yang diberikan pada postlarva udang vaname berpengaruh terhadap pertumbuhan dan kelangsungan hidupnya. Penelitian ini bertujuan untuk mengkaji tingkat pemanfaatan pakan *Artemia* beku dan *Artemia* dekapsulasi untuk pertumbuhan dan kelangsungan hidup postlarva udang vaname. Penelitian menggunakan rancangan acak lengkap (RAL) dengan tiga perlakuan dan tiga ulangan. Perlakuan yang diuji adalah (A) *Artemia* beku, (B) *Artemia* dekapsulasi, (C) *Artemia* beku + *Artemia* dekapsulasi. Penelitian ini dilaksanakan di Hatchery PT. Citra Larva Cemerlang, Kalianda, Lampung selatan dengan menggunakan udang vaname stadia PL 2 sebanyak 6300 ekor yang dipelihara selama 10 hari. Parameter yang diamati meliputi laju pertumbuhan panjang dan bobot relatif, efisiensi pemanfaatan pakan, rasio efisiensi protein, tingkat kelangsungan hidup, dan kualitas air. Berdasarkan hasil analisis statistik (Anova) dan uji lanjut BNT pemberian pakan *Artemia* beku memberikan hasil terbaik dengan pertumbuhan bobot relatif 128,06 g, efisiensi pemanfaatan pakan 0,04%, rasio efisiensi protein 48,21%, tingkat kelangsungan hidup dengan persentase 56%, dan untuk laju pertumbuhan panjang relatif *Artemia* beku+dekapsulasi memiliki hasil terbaik sebesar 17,0%.

Kata kunci: *Vaname*, *Artemia*, *Pertumbuhan*, *Beku*, *Dekapsulasi*.