

ABSTRAK

Wahyu Alfa Reza 105941101621 Efektifitas Probiotik Rumen Terhadap Konsumsi, Efisiensi pakan Dan Laju Pertumbuhan Larva Udang Vannamei (*Litopenaeus Vannamei*). Dibimbing oleh Farhanah Wahyu dan Murni

Udang vaname (*Litopenaeus vannamei*) merupakan salah satu komoditas perikanan unggulan di Indonesia dengan produktivitas tinggi dan permintaan pasar yang terus meningkat. Dengan menambahkan probiotik berbasis cairan rumen ke dalam pakan, diharapkan dapat meningkatkan efisiensi pakan, mempercepat pertumbuhan Post Larva 11 udang vaname. Rancangan percobaan yang dinggunakan adalah rancangan acak lengkap (RAL) dengan 3 perlakuan masing-masing 3 kali ulangan. Masing-masing perlakuan diberi probiotik rumen yaitu perlakuan A Dosis (3 mL/100 gr) pakan komersil, Perlakuan B Dosis (4 mL/100 gr) pakan komersil, Perlakuan C Dosis (5 mL/100 gr) pakan komersil. Post larva udang vannamei dipelihara kontener box yang berukuran 55 cm x 40 cm x 27 cm berisi air laut 30 liter. Hasil penelitian ini menunjukkan bahwa pemberian probiotik rumen menunjukkan hasil berbeda nyata ($p > 0.05$) terhadap konsumsi pakan PL udang vannamei, namun tidak memberikan pengaruh pada efisiensi pakan dan laju pertumbuhan PL udang vannamei. Hasil terbaik efisiensi pakan, konsumsi pakan dan laju pertumbuhan diperoleh pada perlakuan C Dosis (5 mL/100 gr) pakan komersil.

Kata Kunci : Probiotik Rumen, Efisiensi, Konsumsi Pakan, Laju Pertumbuhan, Udang Vanammei

ABSTRACT

Wahyu Alfa Reza 105941101621 *Effectiveness of Rumen Probiotics on Feed Consumption, Efficiency and Growth Rate of Vannamei Shrimp Larvae (Litopenaeus Vannamei) Given Rumen Probiotic Feed at Different Doses. Supervised by Farhanah Wahyu and Murni.*

Vannamei shrimp (Litopenaeus vannamei) is one of the leading fisheries commodities in Indonesia with high productivity and increasing market demand. By adding rumen fluid-based probiotics to the feed, it is hoped that it can increase feed efficiency, accelerate the growth of Post Larvae 11 white shrimp. The experimental design used was a completely randomized design (CRD) with 3 treatments with 3 replications each. Each treatment was given rumen probiotics, namely Treatment A Dose (3 mL/100 gr) of commercial feed, Treatment B Dose (4 mL/100 gr) of commercial feed, Treatment C Dose (5 mL/100 gr) of commercial feed. Post vannamei shrimp larvae are kept in a box container measuring 55 cm x 40 cm x 27 cm containing 30 liters of sea water. The results of this study showed that administration of rumen probiotics showed significantly different results ($p > 0.05$) on vannamei shrimp PL feed consumption, but had no effect on feed efficiency and vannamei shrimp PL growth rate. The best results for feed efficiency, feed consumption and growth rate were obtained in treatment C Dose (5 mL/100 gr) of commercial feed.

Keywords: Rumen Probiotics, Efficiency, Feed Consumption, Growth Rate, Vanammei Shrimp