

ABSTRAK

PERFORMA PERTUMBUHAN *POST LARVAE* UDANG VANAME (*Litopenaeus vannamei*) DENGAN PAKAN NAUPLI *Artemia* sp. DIPERKAYA HORMON PERTUMBUHAN REKOMBINAN IKAN KERAPU KERTANG

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Budidaya udang vaname (*Litopenaeus vannamei*) sering dihadapkan oleh kualitas benur yang rendah. Oleh karena itu, perlu dilakukan peningkatan mutu benur, salah satunya dengan memberikan pakan alami. Upaya yang dapat dilakukan untuk meningkatkan performa pertumbuhan larvae udang vaname dengan melakukan pengkayaan terhadap *Artemia* sp. dengan hormon pertumbuhan ikan kerapu kertang. Tujuan dari penelitian ini adalah untuk mempelajari pemberian hormon pertumbuhan rekombinan ikan kerapu kertang melalui pengkayaan nauplius *Artemia* sp. terhadap kelulushidupan dan pertumbuhan udang vaname. Penelitian ini menggunakan RAL (rancangan acak lengkap) yang terdiri dari lima perlakuan dan tiga ulangan, dengan perlakuan P0 (dosis hormon pertumbuhan rekombinan ikan kerapu kertang 0 mg/l air media kultur *Artemia* sp.), P1 (dosis hormon pertumbuhan rekombinan ikan kerapu kertang 10 mg/l air media kultur *Artemia* sp.), P2 (dosis hormon pertumbuhan rekombinan ikan kerapu kertang 15 mg/l air media kultur *Artemia* sp.), P3 (dosis hormon pertumbuhan rekombinan ikan kerapu kertang 20 mg/l air media kultur *Artemia* sp.), dan P4 (dosis hormon pertumbuhan rekombinan ikan kerapu kertang 25 mg/l air media kultur *Artemia* sp.) Hasil penelitian diketahui bahwa pertumbuhan bobot mutlak dan tingkat kelangsungan hidup P0 berbeda nyata dengan P1, P2, P3, dan P4. Sehingga dapat disimpulkan bahwa pemberian hormon pertumbuhan rekombinan ikan kerapu kertang yang berbeda melalui pengkayaan nauplius *Artemia* sp. memberikan pengaruh nyata terhadap kelulushidupan dan pertumbuhan PL udang vaname.

Kata kunci : *Artemia* sp., pengayaan, dan hormon pertumbuhan rekombinan ikan kerapu kertang.

ABSTRACT

THE GROWTH PERFORMANCE OF *POST LARVAE* OF VANAME SHRIMP (*Litopenaeus vannamei*) WITH NAUPLI FEED *Artemia* sp. ENRICHED RECOMBINANT GROWTH HORMONE KERTANG GROUPE

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The cultivation of vaname shrimp (*Litopenaeus vannamei*) is often faced by the low quality of fry. Therefore, it is necessary to improve the quality of fry, one of which is by providing natural feed. Efforts can be made to improve the growth performance of vaname shrimp larvae by enriching *Artemia* sp. with kertang grouper growth hormone. The purpose of this study was to study the administration of kertang grouper growth hormone through the enrichment of nauplius *Artemia* sp. to the survival and growth of vaname shrimp. This study used RAL (complete randomized design) consisting of five treatments and three repeats, with treatment P0 (dose of kertang grouper growth hormone 0 mg/l of *Artemia* sp. culture media water), P1 (dose of kertang grouper growth hormone 10 mg/l of *Artemia* sp. culture media water), P2 (dose of kertang grouper growth hormone 15 mg/l of *Artemia* sp. culture media water), P3 (kertang grouper growth hormone dose of 20 mg/l of *Artemia* sp. culture media water), and P4 (dose of kertang grouper growth hormone 25 mg/l water culture media *Artemia* sp.) The results of the study found that absolute weight growth and survival rate P0 differed markedly from P1, P2, P3, and P4. So it can be concluded that the administration of different kertang grouper growth hormone through the enrichment of nauplius *Artemia* sp. has a significant influence on the survival and growth of OT vaname shrimp.

Keywords : *Litopenaeus vannamei*, *Artemia* sp, kertang grouper growth hormone.