ABSTRAK

FIKRUL ISLAMI 105941101419. Pengaruh Pemberian Sinbiotik RICA-3 dan Bio-Mos Pada *Artemia* sp. Untuk Meningkatkan Pertumbuhan dan Sintasan Post Larva Udang Vaname. Dibimbing oleh Hamsah dan Harnita Agusanty.

Aplikasi sinbiotik (kombinasi Probiotik dan Prebiotik) merupakan salah-satu cara yang dapat digunakan untuk meningkatkan pertumbuhan dan sintasan larva udang vaname. Penelitian ini bertujuan mengetahui pengaruh pemberian Artemai sp. yang diperkaya dengan sinbiotik Rica-3 dan Bio-Mos terhadap pertumbuhan dan sintasan larva udang vaname. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan 4 perlakuan dan 3 ulangan. Perlakuan yang diberikan yaitu Artemia sp. hasil pengkayaan dengan Sinbiotik Rica-3 dan Bio-Mos masing-masing perlakuan A/kontrol (tanpa pengkayaan sinbiotik), B (10 mg/L Rica-3 + 6 mg/L Bio-Mos), C (14mg/L Rica-3 + 12 mg/L Bio-Mos), D (18 mg/L Rica-3 + 18 mg/L Bio-Mos). Pemberian Artemia sp. hasil pengkayaan dengan sinbiotik dilakukan pada larva udang vaname stadia PL_1-PL_{20}. Hasil penelitian menunjukkan pemberian Artemia sp. hasil pengkayaan dengan sinbiotik Rica-3 dan Bio-Mos memberikan pengaruh nyata ($P<0,05$) terhadap pertumbuhan (berat dan panjang tubuh) post larva udang vaname, namun tidak memberikan pengaruh nyata ($p>0,05$) terhadap sintasan post larva udang vaname. Pertambahan berat dan panjang post larva udang vaname diperoleh pada perlakuan D (18 mg/L Rica-3 + 18 mg/L Bio-Mos).

Kata kunci : Probiotik RICA-3, prebiotik Bio-Mos, pertumbuhan, sintasan, udang vaname.

ABSTRACK

FIKRUL ISLAMI 105941101419. Effect of RICA-3 and Bio-Mos Synbiotic Administration on Artemia sp. To Increase Growth and Survival of Post Vaname Shrimp Larvae. Guided by Hamsah and Harnita Agusanty.

Synbiotic application (combination of Probiotics and Prebiotics) is one way that can be used to increase the growth and survival of vaname shrimp larvae. This study aims to determine the effect of giving Artemai sp. enriched with synbiotic Rica-3 and Bio-Mos against the growth and survival of vaname shrimp larvae. This study used a Complete Randomized Design (RAL) with 4 treatments and 3 repeats. The treatment given is Artemia sp. enrichment results with Synbiotic Rica-3 and Bio-Mos treatment respectively A / control (without synbiotic enrichment), B (10 mg / L Rica-3 + 6 mg / L Bio-Mos), C (14mg / L Rica-3 + 12 mg / L Bio-Mos), D (18 mg / L Rica-3 + 18 mg / L Bio-Mos). Administration of Artemia sp. The results of synbiotic enrichment were carried out on larvae of vaname stadia shrimp PL1-PL20. The results showed the administration of Artemia sp. The results of enrichment with synbiotic Rica-3 and Bio-Mos had a real effect (P<0.05) on the growth (body weight and length) of post larvae of vaname shrimp, but did not have a real effect (>0.05) on the survival of post larvae of vaname shrimp. Weight gain and post length of vaname shrimp larvae were obtained in treatment D (18 mg/L Rica-3 + 18 mg/L Bio-Mos).

Keywords: RICA-3 probiotics, Bio-Mos prebiotics, growth, survival, udang vaname.