Abstract

This study investigated the effect Onion Powder (OP) supplementation in the diet of the *Litopenaeus vannamei* on the growth, survival Post larval averaging 0/07 ± 0.01 g were randomly stocked into aquarium. 5 treatments nutritional and three replicates per treatment, respectively, containing 0%, 0/5%, 1%, 1/5% and 2%, onion powder per kg diet, was conducted over a period of 8 weeks. Number 675 litopenaeus vannamie post larvae weighted average West 0/07±0/01 grams prepared to adapt to 2 weeks before the start of the experiment, in vitro maintenance and commercial diets were diet without onion powder. During feeding experiments were conducted 7 percent of body weight. Shrimp tested fortnightly biometry and length and weight were recorded. At the end of the experiment, growth parameters, survival and body composition (moisture, fat, ash and protein) were examined. The results showed the growth rate and survival compared to control treatments containing onion powder is increased in which the growth of shrimp in the nutritional treatment with 1%, onion powder compared to the control group showed a significant increase (P<0/05). The highest survival rates in the treatment groups 0/5% onion powder showed no significant difference was observed when compared to control (P<0/05). The end of the treatment, 1% significantly increased compared to the control (P<0/05). The factor analysis of the carcass, carcass ash shrimp fed with onion powder, far more than the control (P<0/05). The salinity and formaldehyde stress, the highest survival rate of shrimp treated onion powder 1% respectively (P<0/05). In general, the growth and survival of onion powder treatments for post larvae fed on diets containing 1% onion powder is obtained.

Keywords: **Onion powder, *Litopenaeus vannamei*, Survival, Growth Index**.

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Effect of dietary onion (*Allium cepa L.*) powder on growth and survival indixes of *Litopenaeus vannamei*

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