

Abstract:

In this research, effect of dietary *Cichorium intybus* powder on growth and survival indices of *Litopenaeus vannamei* was investigated during 6 weeks in Chabahar Fisheries Research Center. Therefore, *Cichorium intybus* powder was added to the starter feed of Havorash Company as four treatments including 0, 0.5, 1 and 1.5 percents. 540 post larvae with average weight 0.09 ± 0.01 g were randomly distributed to four experimental groups (with 3 replicate) in 12 tanks with capacity 70 liter. In during experiment, 30 shrimps per every 10 days were randomly biometry from each treatment. During the feeding period, the shrimps were fed in 8:00 am and 20:00 pm based on 6 percent of body weight. At the end of experiment, growth and survival parameters and resistance post larvae to salinity (15 and 45 ppt) and formalin of (100 ppm) were investigated. The results showed that growth and survival of shrimps under *Cichorium intybus* treatment was higher than the control group, and the highest rate of growth, survival and feed conversion ratio belongs to shrimps fed with 1.5 percent of *Cichorium intybus* powder ($p<0.05$). The highest resistance against environmental tensions recorded in shrimps fed with 1.5 percent C.i. In general the results showed that the use of *Cichorium intybus* powder at 1.5 percent, make significant increasng in the growth and survival rate of vannamei shrimp and can be used as a dietary supplement in the diet of this species.

Key words: *Litopenaeus vannami*, *Cichorium intybus* powder, Post larvae, Specific growth rate, Survival rate



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Effect of dietary *Cichorium intybus* powder on growth and survival indices of *Litopenaeus vannamei*

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