Comparative effect of *Pediococcus acidilactici* and *Lactococcus lactis* as probiotic and vitamin C on water quality parameters and carcass composition of white leg shrimp (*Litopenaeus vannamei*)

**Abstract**

This study was done in Shahid Kiani Marine Aquaculture Development Center, Choebde, Abadan in order to evaluate the effects of *Pediococcus acidilactici, Lactococcus lactis* and vitamin C on water quality parameters and carcass composition of *L. vannamei* during three months. Treatments were included control group, *Pediococcus* and *Lactococcus* treatments which fed with diet containing $1 \times 10^9$ cfu g$^{-1}$ bacteria and vitamin C. The results indicated that these supplements cannot cause to significant impacts on water quality parameters (P>0.05). The lowest of crude fat and the highest amount of ash were computed in *Pediococcus* and *Lactococcus* treatments (P<0.05), While these supplements cannot caused to significant impacts on crude protein and moisture (P>0.05).

**Keywords:** *Pediococcus acidilactici, Lactococcus lactis, Vitamin C, carcass composition, Litopenaeus vannamei.*

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