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*)

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Abstract
This study was done in Shahid Kiani Marine Aquaculture Development Center, Choebde, Abadan in order to evaluate the effects of *Pediiococcus acidilactici*, *Lactococcus lactis* and vitamin C on water quality parameters and carcass composition of *L. vannamei* during three months. Treatments were included control group, *Pediiococcus* and *Lactococcus* treatments which fed with diet containing 1×10^9 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.*