

## عنوان مقاله:

The effects of *Pediococcus acidilactici* as a probiotic on growth performance and survival rate of great sturgeon, *Huso huso* (Linnaeus, 1758)

## محل انتشار:

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## خلاصه مقاله:

This study was accomplished to investigate the effect of *Artemia urmiana* nauplii enriched with *Pediococcus acidilactici* as probiotic on growth performance and survival rate of great sturgeon, *Huso huso*. *Artemia* nauplii were enriched with *P. acidilactici* at a final concentration of  $1 \times 10^6$  CFU mL<sup>-1</sup> in three time dependent treatments as 3 h (T<sub>3</sub>), 6 h (T<sub>6</sub>), 9 h (T<sub>9</sub>), and one non-enriched *Artemia* as the control treatment. All treatments were considered in triplicates. Since the nauplii enriched for 9 hours (T<sub>9</sub>) had the most significant CFU/g compared to other treatments ( $p < 0.05$ ), juvenile beluga at the stage of first feeding with the mean body weight of  $48 \pm 1$  mg (mean  $\pm$  SE) were fed with nauplii enriched for 9 hours (T<sub>9</sub>) and the control diet, with three tanks assigned to each diet. No significant differences were observed in final weight, final length, condition factor, specific growth rate, average daily growth, and survival rate for fish fed with T<sub>9</sub> compared to those in the control group ( $p > 0.05$ ). On the other hand, a decreasing trend was recorded in food conversion ratio (FCR) and final biomass changed significantly for T<sub>9</sub> in comparison with that recorded in the control group ( $p < 0.05$ ). The results indicated that *P. acidilactici* had a positive effect on growth and survival of beluga larvae, and a different time of enrichment had a significant effect on LAB effect. The best time of enrichment for beluga larvae was found to be 9 hours.

## کلمات کلیدی:

*Artemia* nauplii, Enrichment, Probiotic, Lactic acid bacteria, *Huso huso*

## لینک ثابت مقاله در پایگاه سیویلیکا:

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