

عنوان مقاله:

Effects of enriched artemia with selenium nanoparticles on growth, survival and biochemical factors of guppy (Poecilia (reticulata

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خلاصه مقاله:

This study was carried out to investigate the effects of enriched Artemia with selenium nanoparticles on growth and survival rates and biochemical factors in guppy Poecilia reticulata larvae over a six-week period. Guppy larvae with a mean weight of Υ . $\Delta \Delta$ mg in three treatments and one control group (each with three replicates) were fed with Artemia franciscana enriched with Δ , 1°, and $\Delta \circ$ mg L-1 selenium nanoparticles. In terms of growth indices, significant differences were observed among treatments in length increment, weight gain, specific growth rate and survival rate (p< $\circ.\circ\Delta$). There was no significant difference in condition factor (p> $\circ.\circ\Delta$). Regarding biochemical factors, significant differences were observed between treatments. Artemia - fed treatments enriched with Δ and $1\circ$ mg of selenium nanoparticles (treatment 1 and Υ) showed the lowest and in the treatment fed with Artemia - enriched $\Delta \circ$ mg nanoparticles (treatment Υ) showed the highest levels of aspartate aminotransferase, alanine aminotransferase, alkaline phosphatase, creatinine phosphokinase and lactate dehydrogenase. The highest total protein content was observed in treatment Υ , which was significantly different from the other treatments (p< $\circ.\circ\Delta$). Overall, if the goal of using selenium-enriched Artemia in fish larval diet is to increase survival and growth rate and improve biochemical indices, the use of selenium nanoparticles at the levels of Δ and $1\circ$ mg L-1 is appropriate for enriching Artemia to feed .the fish larvae

کلمات کلیدی: Selenium nanoparticles, Guppy, Artemia, Growth, Enzyme

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