

عنوان مقاله:

Effect of dietary protein and protein energy ratio on the growth performance of lemon fin barb hybrid (Hypsibarbus wetmorei X Puntius gonionotus) larvae

محل انتشار:

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خلاصه مقاله:

A series of two experiments was conducted to study the optimum dietary protein level and protein to energy ratio of lemon fin barb hybrid larvae. In Experiment 1, five isocaloric diets (₱Y∘∘ kcal per kg) ranging from ₱∘ to ₱∘% protein in ۵% increments were fed to triplicate groups of lemon fin barb hybrid larvae (initial weight: ٥.١٥ ± ٥.٥١ mg per fish) for ۲١ days. Weight gain of fish was proportional to the protein content of the diet up to an incorporation rate of Δο%. Among formulated diets, the diet with ۵.% protein produced the highest weight gain (۴.٢۶ ± ... mg). The dietary protein level that yielded maximum growth was &Y.1% based on a broken-line model estimation of weight gain. Based on these results, two dietary protein levels (Δο% and ΔΔ%) were used along with three energy levels (FΔοο, FYοο and F۹οο kcal per kg diet) at each protein level in Experiment Y. The survival of fish fed diets containing ۵۵% protein was significantly lower (p<0.0\text{\$\alpha\$}) than that of fish fed diets containing \$\alpha\$0% protein regardless of the energy level. Weight gain of fish was significantly (p<o.oa) different at all dietary protein and energy levels. The best growth was observed in larvae fed diet Ψ containing ۵.% protein with F9.0 kcal/kg energy with the highest weight gain (Ψ.1Y ± 0.00 mg), feed .(conversion ratio (o.AY ± o.oY) and protein energy ratio (9Y.\mathbb{\mathbb{P}}\text{\text{mg/kcal}}

كلمات كليدى:

Protein, Energy, Lemon fin barb hybrid, Larvae

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