

عنوان مقاله:

(Effect of Coffee Silverskin Enriched Diet to Enhance the Immunological and Growth Parameters of Nile Tilapia (*Oreochromis niloticus*)

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خلاصه مقاله:

The application of low-cost feed additives as an immunostimulant for different species of fish is an emerging research area in aquaculture. The present study aimed at incorporating a byproduct from coffee processing, coffee silverskin, as an immunostimulant in Nile Tilapia. A total of ۲۲۵ Tilapia fingerlings (each weighing  $۳۳.۰۴ \pm ۰.۰۷$ ) were fed on diets as follows: Diet ۱ (control), Diet ۲ (۲۰ gm/kg), Diet ۳ (۴۰ gm/kg), Diet ۴ (۸۰ gm/kg) and Diet ۵ (۱۸۰ gm/kg) of coffee silverskin. The feeding experiment continued for four weeks; moreover, growth, as well as immunological studies, were carried out by collecting mucus and blood serum from the liver and intestine of the fish. A significant increase in growth performance was observed in fish fed with a ۴۰ gm/kg coffee silverskin-containing diet. The same effect was found in immunological parameters, including complement activity, serum lysozyme activity, and respiratory burst activity. Therefore, it is concluded that the study was definitely a successful one, and a diet with ۴۰ gm/kg of coffee silverskin (Diet ۳) was effective, compared to the rest of the compositions.

کلمات کلیدی:

Coffee silverskin, Growth parameters, Serum immunology

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