عنوان مقاله:

Effect of dietary supplementation of Chlorella vulgaris on several physiological parameters of grey mullet, Mugil cephalus

محل انتشار:

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خلاصه مقاله:

The present study was investigated on effect of optimum dietary level of Chlorella vulgaris powder (CP) as a feeding supplement on various blood biochemical criterion (Cholesterol (CHO), triglyceride (TG), total protein (TP), glucose (GLU), and lysozyme) and digestive enzymatic activities (amylase, lipase and protease) of the grey mullet (Mugil cephalus L). Four experimental regimens were supplemented with CP at ۰, ۵, ۱۰ and ۱۵ g kg−۱ diet (CP۰, CP۵, CP۱۰ and CP۱۵). Number of twelve pools (۶۰-L) with three duplicates for analysis groups (n=۱۰ per pool with initial weight average ۱۴.۹۵±۲.۰۱ g) and the control group were studied. Upon ۶۰ days of the feeding trial, fish fed CP۵ diet had lower serum CHO and TG levels than fish fed CP۰, CP۱۰ and CP۱۵ diets (p<۰.۰۵). No considerable difference were found in GLU when comparing fish fed CP۵ and CP۱۰ diet (p>۰.۰۵). Most serum total protein and amylase, protease, lipase and lysozyme activities were observed in fish fed CP۵. Also, fish fed CP۱۰ and CP۱۵ diets had higher digestive enzymatic activities, serum total protein and lysozyme activities than fish fed CP۰ (p<۰.۰۵). The outcomes proved the inclusion of ۵g chlorella powder dietary supplementation in the commercial regimen may improve the blood chemical responses .and the activity of digestive enzyme in grey mullet

کلمات کلیدی:

Mugil cephalus, Chlorella vulgaris, Additive, Digestive enzymes, Blood biochemical parameters

لینک ثابت مقاله در پایگاه سیویلیکا: