

Study on the Effects of Different Levels of Dietary Vitamin C on Some of Biochemical Parameters of Serum in Barbus

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Abstract : This study was conducted in order to characterize the different levels of dietary vitamin C on some of biochemical parameters of *Barbus grypus*. For this purpose 300 *Barbus grypus* were divided into 15 groups. Five levels of vitamin C (0, 200, 400, 800, 1600 mg kg⁻¹ diet) and their combination were used to prepare five experimental diets. The fish were fed 3% of their wet b.wt. per day for a 60 days period. Blood samples were obtained from six fish of each tank at the end of experiment. The results reveal that fish fed diets containing 1600 mg kg⁻¹ vitamin C had a significant decrease in the mean amount of cholesterol, glucose and triglyceride ($p < 0.05$). Also, there was no significant difference in the mean amount of total protein, albumin, BuN, phosphorus, sodium and potassium between the fish fed with the different diets designed for this experiment ($p > 0.05$).

Keywords : *Barbus grypus*, vitamin C, biochemical parameters, diet

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