Effect of vitamins on digestive enzyme activities and growth performance of striped murrel Channa striatus

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ABSTRACT:

Five diets (diets incorporated with folic acid, vitamin B, vitamin C, vitamin/ mineral mix and control) were used to determine their effects on survival, digestive enzyme activity, protein profiling and growth of striped snakehead Channa striatus fingerlings. All vitamin diets showed significant difference in enzyme activity like protease, amylase and lipase, when compared to that of control. The fingerlings fed with vitamin C diet showed significantly (P<0.05) better performance in terms of survival rate, weight gain and Specific Growth Rate (SGR) when compared to the rest of the four diets. The electrophoretic studies revealed that high molecular weight fractions were added up in muscle tissue of C. striatus fed with vitamin and mineral supplemented diets.

Keywords:

Channa striatus, Vitamins, Growth, Survival, Enzyme activity.