Improved growth performance of hybrid grouper (Epinephelus fuscoguttatus ♀× e. lanceolatus ♂) fed with green pea meal based diets

ABSTRACT

Five experimental diets were formulated to determine the effects of green pea meal (GPM) inclusion in the formulation on the growth performance of hybrid grouper (Epinephelus fuscoguttatus ♀ X E. lanceolatus ♂) juveniles. GPM was included at the expense of soybean meal (SBM) at 0 (GP0), 5 (GP5), 10 (GP10), 15 (GP15) and 20% (GP20) replacement levels, which are equivalent to 0, 3.2, 6.5, 9.7 and 12.9% of the diet. GPM used in the present study had a higher lysine content than fish meal or SBM. Overall, the GPM-based diets performed significantly better than the control. In particular, juvenile hybrid grouper fed GP10 yielded the best growth and feed utilization. Therefore, the use of GPM at 6.5% of the diet is recommended to improve growth and feed utilization of hybrid grouper juveniles.