

紫花苜蓿对团头鲂生长性能及消化酶活性影响的研究

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摘要:

选取来源一致、规格整齐、体质健康、游动活泼体重为(59.90±0.84)g的团头鲂Megalobrama amblycephala 1530尾,采用单因子随机区组设计,分为6个处理,每处理3个重复,每重复85尾。各处理组紫花苜蓿Medicago sativa草粉添加量分别为:0(对照组)、8%(试验I组)、16%(试验II组)、24%(试验III组)、32%(试验IV组)和紫花苜蓿鲜草(试验V组),研究紫花苜蓿草粉及其鲜草对团头鲂生长性能、消化酶活性及经济效益的影响。结果表明:1)添加紫花苜蓿草粉后,试验I、II组的尾均日增重、相对生长率极显著高于对照组(P<0.01),试验III组高于对照组、试验IV组低于对照组,但差异均不显著(P>0.05);2)添加紫花苜蓿草粉后对消化道各部位蛋白酶活性及淀粉酶活性有促进作用,试验II组在后肠的蛋白酶活性、试验IV组在肝胰脏中的淀粉酶活性显著高于对照组(P<0.05);3)与对照组相比,试验I、II组经济效益均有所提高;4)投喂一定量的紫花苜蓿鲜草,可以提高其消化酶活性,改善其生长性能,获得较好的经济效益。

关键词: 紫花苜蓿;团头鲂;生长性能;蛋白酶;淀粉酶

Effects of alfalfa on growing performance and digestive enzymes of Bluntnose Black Bream

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Abstract:

1530 Bluntnose Black Bream (Megalobrama amblycephala) (59.90±0.84 g) were randomly divided into six treatments with three replicates to study the effects of alfalfa meal and fresh alfalfa on its production performance and the digestive enzymes. The control group was fed with the basal diets (0 alfalfa meal), the other groups were fed with diets containing 8%(group I), 16%(group II), 24% (group III) and 32% (group IV) alfalfa meal and fresh alfalfa (group V) respectively. The results showed that 1) Comparing with the control group, the average daily gain and relative growth rate of the fishes fed with 8% or 16% alfalfa meal had very significantly increase (P <0.01), group III was higher and group IV was lower than that of control, but no significant difference was observed (P>0.05). 2) The activity of digestive enzymes of all experimental groups was higher than the control group. The protease in hindgut of group II and the amylase in hepatopancreas of group IV were significantly higher than control group (P<0.05). 3) Compared with the control, the economic benefits of the group I and II were improved. 4) Feeding with fresh alfalfa could increase digestive enzymes activities, improve growing performance and achieve better economic profits.

Keywords: alfalfa Bluntnose Black Bream growing performance protease

扩展功能

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