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李贵锋,蒋广震,刘文斌,李向飞,蒋阳阳,邵仙萍,不同蛋白质和能量水平对建鲤幼鱼生长性能、体组成和消化酶活性的影响[J].上海海洋大学学报,2012,21(2):225-232

不同蛋白质和能量水平对建鲤幼鱼生长性能、体组成和消化酶活性的影响

Effects of dietary protein and energy levels on growth performance, body composition and digestive enzyme activities of juvenile Jian carp (Cyprinus carpio var. jian)

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中文关键词: 建鲤 能量 蛋白质 生长性能 体组成 消化酶活性

英文关键词:Jian carp (Cyprinus carpio var. jian) energy protein growth performance body composition digestive enzyme activities

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中文摘要:

探讨了饲料中不同蛋白质和能量水平对建鲤幼鱼生长性能、体组成和消化酶活性的影响。其中,蛋白质(CP)的4个水平分别为26%、30%、33%和36%,可消化能(DE)的两个水平分别为13.5 MJ/kg和14.5 MJ/kg。选用建鲤幼鱼960尾随机分为8组,每组4个重复,每个重复30尾,养殖在规格为3.0 m×1.0 m×0.8 m的水箱中,每日投喂3次,试验期为8周。结果表明:增重率和特定生长率随蛋白质水平的升高星升高趋势,但差异不显著(〖WTBX〗P〖WTBZ〗>0.05);增重率、特定生长率和饲料系数随能量水平的升高显著改善(〖WTBX〗P〖WTBZ〗<0.0 5);其中,CP36DE14.5组和CP33DE14.5组的增重率和特定生长率显著高于CP26DE13.5组、CP30DE13.5组和CP33DE13.5组(〖WTBX〗P〖WTBZ〗<0.05),但与其他组间差异不显著(〖WTBX〗P〖WTBZ〗P〖WTBZ〗<0.05),但与其他组间差异不显著(〖WTBX〗P〖WTBZ〗+0.05),但为其他组间差异不显著(〖WTBX〗P〖WTBZ〗<0.05),提个工作。其中,从于10.5年,以为10.

英文摘要:

The objective of this study was to evaluate the effects of dietary energy and protein levels on growth performance, body composition and digestive enzyme activities of juvenile Jian carp (average initial body weight, 10 ± 0.5 g). 960 fish were randomly distributed into 32 tanks $(3.0 \text{ m} \times 1.0 \text{ m} \times 0.8 \text{ m})$ at a density of 30 fish per tank. Fish were fed eight practical diets with two digestible energy (DE) levels (13.5 and - 14.5 MJ/kg) and four crude protein (CP) levels (26%, 30%, 33%, and 36%) three times daily for 8 weeks. The results indicated that weight gain rate(WGR) and specific growth rate (SGR) increased with increasing dietary protein levels although no significant difference was observed (P>0.05). WGR, SGR and feed conversion ratio (FCR) improved significantly (P<0.05) as dietary energy levels increased. WGR and SGR of fish fed diets P36E14.5 and P33E14.5 were significantly (P<0.05) higher than those of fish fed diets P26E13.5, P30L13.5 and P33L13.5, but showed little difference from those of the other groups (P>0.05). Protein efficiency ratio and nitrogen retention efficiency (NRE) decreased significantly (P<0.05) as dietary protein levels increased. Contrary to moisture, relative feed intake, hepatosomatic index and whole body lipid content decreased significantly (P<0.05) as dietary protein levels increased significantly (P<0.05) as dietary protein levels increased. Intestine protease activities increased significantly (P<0.05) as dietary protein levels increased, whereas little difference was observed in lipase and amylase activities (P>0.05). These results demonstrated that the diet which contains 33% protein and 14.5 MJ/kg energy is optimal for growth performance and feed dietary protein levels increased. In additi

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