

论文

饲料中添加氨基酸对乌苏里貉生长性能及血液生化指标影响

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摘要:

选取9周龄体质量相近、健康状况良好的雄性乌苏里貉108只,随机分为9个处理组,每组12只,试验采用3×3双因子试验设计,蛋氨酸添加水平分别为M1(0)、M2(0.15%)、M3(0.30%),赖氨酸添加水平分别为L1(0)、L2(0.20%)、L3(0.40%),研究不同氨基酸添加水平对貉生长性能、部分血液生化指标及血清游离氨基酸含量的影响。结果表明:不同蛋氨酸添加水平对貉的平均日增重、平均日采食量、料重比均有显著影响(P<0.05),平均日增重、平均日采食量随蛋氨酸添加水平的升高而升高,料重比随蛋氨酸添加水平的升高而下降。不同蛋氨酸、赖氨酸添加水平对貉白蛋白、血清尿素氮、血清游离氨基酸含量影响显著(P<0.05)。不同赖氨酸添加水平对貉生长性能影响不显著(P>0.05)。

关键词: 蛋氨酸 赖氨酸 乌苏里貉 生长性能 生化指标

Effects of Supplemental Amino Acid in Diets on Growth Performance and Content of Blood Biochemical Parameters of NyctereutesprocyonoidesM.

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Abstract:

One hundred and eight male raccoon dogs at 9 weeks of age with similar body weight and good physical status were randomly allotted to nine treatment groups, and each group had 12 raccoon dogs. The test studied effects of different diets with methionine and lysine on growth performance, biochemical parameters and serum free acids. 3 (three methionine levels, M1:0, M2:0.15%, M3:0.30%)×3(three lysine levels, L1:0, L2:0.20%, L3:0.40%), two factor experimental design. The results were as follows: Low protein diet supplemented with appropriate concentration of methionine and lysine could significantly improve average daily gain(ADG) and average daily feed intake(ADFI) of growing raccoon dogs(P<0.05). Different levels of methionine had significant effect on ADG, ADFI and average daily feed intake / average daily gain(F / G) of growing raccoon dogs(P<0.05):ADG and ADFI were improved but F / G was decreased. Different levels of methionine and lysine added in diets had significant effect on albumin(ALB) and blood urea nitrogen (BUN) and serum free amino acids (P<0.05). However, different supplemental lysine levels didn't affect growth performance significantly (P>0.05).

Keywords: methionine lysine Nyctereutes procyonoides M. growth performance biochemical parameter

收稿日期 2010-04-19 修回日期 网络版发布日期

DOI: CNKI:22-1100/S.201104

基金项目:

科技部公益性行业(农业)科研专项(200903014), 国家科技支撑计划项目(2006BAD14B07-5-5)

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