



动物营养学报

CHINESE JOURNAL OF ANIMAL NUTRITION

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动物营养学报 2011, Vol. 23 Issue (01): 73-77 DOI: 10.3969/j.issn.1006-267x.2011.01.012

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饲料蛋氨酸水平对新西兰肉兔生长性能和毛皮品质的影响

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Effects of Dietary Methionine Levels on Growth Performance and Fur Quality of New Zealand Meat Rabbits

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- 摘要
- 参考文献
- 相关文章

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摘要 本文旨在研究饲料蛋氨酸水平对新西兰肉兔幼兔生长性能和毛皮品质的影响。选择45日龄体重(1.050±0.058) kg的新西兰肉兔幼兔80只, 随机分为4组, 分别饲喂基础饲料(蛋氨酸含量0.24%)和在基础饲料中添加0.20%、0.40%和0.60%蛋氨酸的饲料, 饲养时间60 d。结果表明: 试验兔平均日增重、耗料量、被毛密度和毛的机械性能指标随饲料中蛋氨酸水平的升高而增加, 但饲料蛋氨酸水平超过0.64%时有下降的趋势(P>0.05); 料重比随蛋氨酸水平升高有先下降后上升的趋势; 各组间皮厚、皮重、皮机械物理性能和皮革品质差异不显著(P>0.05)。蛋氨酸有利于提高新西兰肉兔幼兔阶段生长性能和毛皮品质, 饲料中蛋氨酸含量为0.64%时生长性能和毛皮品质最优。

关键词: 新西兰肉兔; 蛋氨酸; 生长性能; 毛皮品质

Abstract: This experiment was conducted to study the effects of dietary methionine levels on growth performance and fur quality of young New Zealand meat rabbit. Eighty young New Zealand meat rabbits with body weight of (1.050±0.058) kg were randomly divided into 4 groups. Rabbits in the control group were fed the basal diet which contained 0.24% methionine and those in the other groups were fed diets supplemented with 0.20%, 0.40% and 0.60% methionine based on the basal diet. The feeding trial lasted for 60 days. The results showed as follows: average daily gain, feed consumption, hair density and mechanical properties indices of wool were elevated with the increasing of dietary methionine levels, but they tended to be reduced when the level of methionine was more than 0.64% (P>0.05); the feed/gain was decreased firstly and then elevated with the increasing of dietary methionine levels; there were no significant difference among the various groups in skin thickness, skin weight, mechanical and physical properties of skin (P>0.05). These results indicate that methionine could improve the growth performance and fur quality of New Zealand meat rabbit, the better effects were obtained with 0.64% methionine in diet. [Chinese Journal of Animal Nutrition, 2011, 23 (1): 73-77]

Keywords: New Zealand meat rabbit; methionine; growth performance; fur quality

引用本文:

. 饲料蛋氨酸水平对新西兰肉兔生长性能和毛皮品质的影响 [J]. 动物营养学报, 2011, V23(01): 73-77

. Effects of Dietary Methionine Levels on Growth Performance and Fur Quality of New Zealand Meat Rabbits[J]. Chinese Journal of Animal Nutr 2011, V23(01): 73-77.

链接本文:

http://118.145.16.228/Jweb_dwyy/CN/10.3969/j.issn.1006-267x.2011.01.012 或 http://118.145.16.228/Jweb_dwyy/CN/Y2011/V23/I01

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