

日粮中添加高硒钴苜蓿青草粉对Wistar大白鼠消化能力和生产性能的影响

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摘要:

研究了在日粮中添加2%~6%的高硒钴苜蓿Medicago sativa青草粉对Wistar大白鼠采食量、消化性能、日增质量和饲料转化率的影响。结果表明:和添加普通苜蓿青草粉相比,高硒钴苜蓿青草粉在添加量为4%~6%的情况下,均能在不同程度上提高大白鼠胃蛋白酶的活力、减少饲料在胃内的残留率,有利于饲料的转化与利用,并且饲喂安全,无副作用。其中在日粮中添加4%的高硒钴苜蓿青草粉时,胃蛋白酶活力提高了18.1% ($P<0.01$),胃内残留率降低了7.1% ($P<0.05$),小肠推进率提高了1.9% ($P>0.05$),日增质量比对照提高了14.9% ($P<0.01$),饲料转化率比对照提高了8.4% ($P<0.05$);在日粮中添加6%的高硒钴苜蓿青草粉时,胃蛋白酶活力提高了19.8% ($P<0.01$),胃内残留率降低了9.8% ($P<0.05$),小肠推进率提高了9.7% ($P<0.01$),日增质量比对照提高了12.7% ($P<0.01$),饲料转化率(6.30%)比对照提高了9.0% ($P<0.05$)。

关键词: 日粮; 硒; 钴; 苜蓿; 消化能力; 生产性能

Effects of alfalfa meal contained Selenium and Cobalt in diet on digestibility and production performance of Wistar rats

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Abstract:

The effects of high content of Se Co in alfalfa meal mixed with diets on intake, digestibility, daily gain and feed conversion rate of Wistar rats were studied. Compared with control, alfalfa meal contained Se Co increased pepsin activities, intake and feed conversion efficiency, and decrease gastric remains rate of feed. No any harmful effects were found thorough the experiment when the diets contained 4%-6% of the alfalfa. As the content of the alfalfa increase from 4% to 6% in diet, pepsin activities increased by from 18.1% ($P<0.01$) to 19.8% ($P<0.01$), gastric remains rate of feed decrease by from 7.1% ($P<0.05$) to 9.8% ($P<0.05$), propulsive proportion of small intestine increased by 1.9% ($P>0.05$) to 9.9% ($P<0.05$).

Keywords: diet Selenium Cobalt alfalfa; digestibility production performance

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