THE INFLUENCES OF ORGANIC MICRO MINERAL IN AMMONIA LEVELS (NH_3) AND VOLATILE FATTY ACID (VFA) RUMEN LUQUID IN COWS

By

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The objective of this research was to know the influence organic micro mineral in feed, against Volatile Fatty Acid (VFA) and NH_3 the rumen of cow and to knew the level determination in use organic micro mineral on feed against Volatile Fatty Acid (VFA) and NH_3 of cow.

This research used 4 post-weaning cows with used Latin square design, with 4 treatments and 4 replications. The treatment was arranged RO=Basal feed(20%mix grass +80% concentrates) R1= Basal feed + organic micro mineral(Zn,Cu,Se and Cr)*$^1/_2$x ,R2= Basal feed l +organic micro mineral(Zn,Cu,Se and Cr)*1 x,R3= Basal feed +organic micro mineral(Zn,Cu,Se and Cr)*$1^1/_2$ x. Data obtained was analyzed using variant analysis and the relation of treatments polynomial orthogonal analysis to determine the best level in used organic micro mineral.

The results showed that: (1) The used organic micro mineral in feed had no effect ,but give positive influence of Volatile Fatty Acid(VFA) and ammonia (NH_3)content.(2) the level of organic micro mineral used $1^1/_2$X from recommendation into feed treatment(R3) that the best level.

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