

## **ABSTRAK**

### **OPTIMALISASI PEMANFAATAN LIMBAH AGROINDUSTRI MELALUI SUPLEMENTASI MINERAL Ca dan Mg ORGANIK TERHADAP KCBK DAN KCBO RANSUM KAMBING**

**Oleh**

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Penelitian ini bertujuan: 1) mengetahui pengaruh penggunaan suplementasi mineral organik Ca dan Mg organik dalam ransum terhadap pencernaan bahan kering (KCBK) dan pencernaan bahan organik (KCBO) pada kambing; 2) menentukan pengaruh terbaik dari penggunaan suplementasi mineral organik Ca dan Mg organik dalam ransum terhadap pencernaan bahan kering (KCBK) dan pencernaan bahan organik (KCBO) pada kambing.

Penelitian dilaksanakan pada September sampai Oktober 2012, bertempat di Kandang Jurusan Peternakan, Fakultas Pertanian Universitas Lampung. Analisis bahan pakan dan feses dilaksanakan di Laboratorium Makanan Ternak, Jurusan Peternakan. Penelitian ini menggunakan rancangan acak kelompok dengan tiga perlakuan dan tiga ulangan. Bobot tubuh sebagai ulangan dan perlakuan yang digunakan adalah R0 = Ransum Basal, R1 = Ransum Basal + Mineral Organik (Ca 0,50 %, Mg 0,04%), R2 = Ransum Basal + Mineral Organik (Ca 1,00%, Mg 0,08%). Data yang diperoleh di uji statistik untuk mengetahui pengaruh perlakuan terhadap peubah yang diamati dengan analisis ragam. Kemudian dilanjutkan dengan uji beda nyata terkecil (BNT) pada taraf nyata 5% dan atau 1%

Hasil penelitian menunjukkan bahwa; suplementasi mineral Ca dan Mg organik tidak berpengaruh nyata ( $P>0,05$ ) terhadap pencernaan bahan kering (KCBK) dan pencernaan bahan organik (KCBO).

## **ABSTRACT**

### **THE OPTIMALIZATION OF THE USAGE OF AGROINDUSTRY WASTE BY THE SUPPLEMENT OF Ca AND Mg ORGANIC MINERAL TO THE DIGESTIBILITY OF DRY MATTER AND THE DIGESTIBILITY OF ORGANIC MATTER OF GOATS RATION**

**By**

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This research aimed to: 1) know the effect of the usage of the supplement of Ca and Mg organic in ration to the digestibility of dry matter and organic matter on goats; 2) know the best effect of the usage of the supplement of Ca and Mg organic in ration to the digestibility of dry matter and organic matter on goats.

This research was held in September until October 2012, located in the pen of Department of Animal Husbandry, Faculty of Agriculture, University of Lampung. The analysis of feedstuff and feces was held in Laboratory of Animal's Feedstuff, Department of Animal Husbandry. This research used Randomized Block Design with three treatments and three replications. The body weights are as the replications. The treatments used are R0 = Bassal Ration, R1 = Bassal Ration + Organic Mineral (0,50% Ca, 0,04% Mg), R2 = Bassal Ration + Organic Mineral (1,00% Ca, 0,08% Mg). The data obtained was statistic tested to know the treatments effect to the variables observed by Variance Analysis. Then, it was continued by Least Significant Different (LSD) on significant level 5% and or 1%.

The result of the research shows that; the supplement of Ca and Mg organic mineral is non significant ( $P > 0,05$ ) to the digestibility of dry matter and organic matter.