

## **ABSTRAK**

### **PERBANDINGAN SUPLEMENTASI MINERAL KALSIMUM DAN MAGNESIUM METIONIN DENGAN KALSIMUM DAN MAGNESIUM SABUN DALAM RANSUM TERHADAP KECERNAAN BAHAN KERING DAN KECERNAAN BAHAN ORGANIK PADA KAMBING RAMBON**

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Penelitian ini bertujuan untuk mengetahui perbandingan suplementasi mineral kalsium dan magnesium metionin dengan kalsium dan magnesium sabun dalam ransum terhadap pencernaan bahan kering dan pencernaan bahan organik pada kambing Rambon, serta mengetahui perlakuan terbaik pada perbandingan suplementasi mineral kalsium dan magnesium metionin dibandingkan kalsium dan magnesium sabun dalam ransum terhadap pencernaan bahan kering dan pencernaan bahan organik pada kambing Rambon. Penelitian ini dilaksanakan pada bulan Februari- Maret 2023 di kandang kambing jurusan Peternakan, Fakultas Pertanian, Universitas Lampung. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) dengan 3 perlakuan dan 4 ulangan. Perlakuan yang diberikan pada penelitian ini yaitu ransum basal (P1), P1+ 3,8412 g Ca/Kg BK dan 0,5063 g Mg/Kg BK dengan teknis pemberian dalam bentuk Ca metionin dan Mg metionin (P2), P1 + 3,8412 g Ca/Kg BK dan 0,5063 g Mg/Kg BK dengan teknis pemberian dalam bentuk Ca sabun dan Mg sabun (P3). Data dianalisis dengan analisis of variance (ANOVA). Hasil penelitian menunjukkan bahwa suplementasi mineral Ca dan Mg metionin dibanding Ca dan Mg sabun tidak berpengaruh nyata ( $P>0,05$ ) terhadap pencernaan bahan kering (KCBK) dan pencernaan bahan organik (KCBO) kambing Rambon.

**Kata Kunci :** Kambing Rambon, Mineral Ca, Mineral Mg, Metionin, Mineral Organik Sabun, Pencernaan Bahan Kering, Pencernaan Bahan Organik

## **ABSTRACT**

### **COMPARISON OF METHIONINE CALCIUM AND MAGNESIUM MINERALS SUPPLEMENTATION WITH CALCIUM AND MAGNESIUM SOAP IN RATIONS ON THE DIGESTION OF DRY INGREDIENTS AND ORGANIC MAGNESIUM IN RAMBON GOATS**

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This study aims to determine the comparison of calcium and magnesium methionine mineral supplementation with calcium and magnesium soap in the ration on dry matter digestibility and organic matter digestibility in Rambon goats, as well as to find out the best treatment for the comparison of calcium and magnesium methionine mineral supplementation compared to calcium and magnesium soap in the ration on dry matter digestibility and organic matter digestibility in Rambon goats. This research was conducted in February-March 2023 in the goat pen, Department of Animal Husbandry, Faculty of Agriculture, University of Lampung. This study used a randomized block design (RBD) with 3 treatments and 4 replications. The treatment given in this study was basal ration (P1), P1 + 3.8412 g Ca/Kg DM and 0.5063 g Mg/Kg DM with technical administration in the form of Ca methionine and Mg methionine (P2), P1 + 3.8412 g Ca/Kg BK and 0.5063 g Mg/Kg BK with technical administration in the form of Ca soap and Mg soap (P3). Data were analyzed by analysis of variance (ANOVA). The results of the study showed that supplementation of Ca and Mg methionine minerals compared to Ca and Mg soap had no significant effect ( $P > 0.05$ ) on the dry matter digestibility (KCBK) and organic matter digestibility (KCBO) of Rambon goats.

**Keywords:** Rambon Goat, Mineral Ca, Mineral Mg, Methionine, Organic Mineral Soap, Digestibility of Dry Matter, Digestibility of Organic Matter