

**PENGARUH PENGGUNAAN PROTEIN TERPROTEKSI, PROBIOTIK
DAN PREMIKS MINERAL DALAM RANSUM KOMPLIT TERHADAP
ABSORPSI KALSIMUM DAN PHOSPOR
PADA DOMBA GARUT JANTAN**

Fajar Nur Fadhilah

ABSTRAK

Penelitian bertujuan untuk mengetahui kombinasi penggunaan protein terproteksi, probiotik dan premiks mineral dalam ransum komplit yang menghasilkan absorpsi kalsium dan fosfor tertinggi pada Domba Garut jantan. Penelitian menggunakan metode eksperimental dengan lima perlakuan. Perlakuan berupa ransum dengan perbedaan kombinasi protein terproteksi, probiotik, dan premiks mineral yaitu R0 (Pakan komplit standar), R1 (Pakan komplit standar dengan sumber protein terproteksi), R2 (R1 + Premiks), R3 (R1 + Probiotik), dan R4 (R1 + Premiks + Probiotik). Setiap perlakuan diulang sebanyak empat kali. Parameter yang diamati adalah absorpsi kalsium dan fosfor. Data hasil penelitian diolah menggunakan Uji-t berpasangan. Hasil penelitian menunjukkan bahwa penggunaan protein terproteksi tanpa disertai penambahan premiks yang mengandung kalsium dan fosfor dapat menurunkan absorpsi kalsium dan fosfor.

Kata Kunci : Protein Terproteksi, Probiotik, Premiks Mineral, Absorpsi Kalsium, Absorpsi Fosfor, Domba Garut jantan.

THE EFFECT OF PROTECTED PROTEIN, PROBIOTICS AND PREMIX UTILIZATION IN COMPLETE FEED TO ABSORPTION OF CALCIUM AND PHOSPHORUS ON GARUT LAMBS.

Fajar Nur Fadhilah

ABSTRACT

The aim of this research is to determine the combination of protected protein, probiotics and premix utilization which produces the highest absorption of calcium and phosphorus on Garut Lambs. This research used a Completely Randomized Design with five treatments. The treatments were arranged as follows : R0 (basic complete feed), R1 (basic complete feed with protected protein), R2 (R1 + Premix, R3 (R1 + Probiotics), and R4 (R1 + Premix + Probiotics). Each treatment was replicated four times. The variable measured were absorption of calcium and phosphorus. Data were analyzed by paired t-test. The result showed that utilization protected protein and probiotic without premix addition as calcium and phosphorus resources decrease calcium and phosphorus absorption.

Keywords: Protected Protein, Probiotics, Premix, Absorption of Calcium, Absorption of Phosphorus, Garut Lambs.