

ABSTRAK

UPAYA PENINGKATAN PERFORMA KAMBING PERANAKAN ETAWA JANTAN MELALUI PEMANFAATAN LIMBAH SAWIT DAN MINERAL MIKRO

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Penelitian bertujuan untuk mengetahui pengaruh penggunaan limbah sawit terfermentasi dan mineral mikro dalam ransum terhadap performa (konsumsi ransum, pertambahan bobot tubuh harian, dan konversi ransum) kambing Peranakan Etawa jantan. Rancangan yang digunakan yaitu Rancangan Acak Kelompok dengan 3 perlakuan dan 3 ulangan. Sebagai unit percobaan yaitu kambing Peranakan Etawa jantan sebanyak 9 ekor. Ransum penelitian terdiri atas R1: ransum basal yang mengandung 15% rumput gajah + 85% konsentrat (onggok + dedak + ampas tahu + molases + premix + urea); R2: ransum yang mengandung 15% pelelah dan daun sawit + 85% konsentrat (bungkil sawit terfermentasi + onggok + dedak + ampas tahu + molases + premix + urea); R3: R2 + 40 ppm Zn-lisinat. Data yang diperoleh diuji dengan analisis sidik ragam (ANARA), kemudian dilanjutkan dengan uji Beda Nyata Terkecil (BNT) dengan taraf nyata 5% dan atau 1%. Hasil penelitian menunjukkan bahwa: (1) Penggunaan limbah sawit dan mineral mikro Zn dalam ransum berpengaruh sangat nyata ($P<0,01$) terhadap konsumsi ransum, akan tetapi tidak berpengaruh nyata ($P>0,05$) terhadap pertambahan bobot badan harian dan konversi ransum kambing Peranakan Etawa Jantan. (2) R3 memberikan hasil yang relatif lebih baik dibandingkan dengan R2 terhadap konsumsi ransum, pertambahan bobot badan harian, dan konversi ransum kambing Peranakan Etawa jantan. Rataan nilai untuk konsumsi ransum pada R3 sebanyak 1.030 g/ekor/hari, pertambahan bobot badan harian sebesar 0,10 kg/ekor/hari, dan konversi ransum sebesar 10,29. Disimpulkan bahwa penggunaan limbah sawit terfermentasi dan mineral mikro Zn dalam ransum dapat meningkatkan performa kambing Peranakan Etawa jantan.

Kata Kunci: Limbah sawit terfermentasi, Zn-lisinat, dan kambing Peranakan Etawa jantan

ABSTRACT

EFFORTS TO IMPROVE OF PERFORMANCE MALE ETAWA GRADE GOATS THROUGH UTILIZATION OF PALM OIL AND MICRO MINERALS

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This research aims to determine the effect of Ration Based of The fermented Palm Oil by Product and Micro Minerals on Performance (feed consumption, daily gain, and feed converse ratio) in male Etawa Grade goats. The research used a Randomized Complete Block Design with 3 groups and 3 treatments. As the experimental unit that is male Etawa Grade goats as much 9 goats. Research ration consists of R1: basal ration containing 15% elephants grass + 85% concentrate (cassava by Product, bran, tofu by product, molasses, premix, urea); R2: ration containing 15% leaf midrib palm fermentation + 85% concentrate (fermented palm kernel meal + cassava by product, bran, tofu by product, mollases, premix, urea); R3: R2+ mineral micro organic Zn-Lysinate 40 ppm.. The data were analyzed of variance (ANOVA), the followed by the least significant different (LSD) with a real level of 5% and or 1%. The results showed that: (1) The use of palm oil and minerals of Zn in the ration had a very significant effect ($P < 0,01$) on feed consumption, but no significant effect ($P > 0.05$) on daily gain and feed converse ratio of male Etawa Grade goats. (2) R3 gives relatively better results compared with R2 for feed consumption, daily gain, and feed converse ratio of male Etawa Grade goats. The average value for feed consumption in R3 is 1.030 g/head/day, daily gain is 0.10 kg/head/day, and feed converse ratio is 10.29. Concluded that the use of fermented palm oil and Zn minerals in rations could improve the performance of male Etawa Grade goats.

Keywords: The fermented Palm oil by product, Zn-lisinate, and male Etawa Grade goats