

## EFEK PENAMBAHAN DAUN LAMTORO (*Leucaena leucocephala*) DAN/ATAU UNDEGRADED DIETARY PROTEIN TERHADAP KONSUMSI DAN KECERNAAN NUTRIEN PAKAN SERTA PRODUKTIVITAS KAMBING KACANG DARA

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### INTISARI

Penelitian ini bertujuan untuk mengetahui efek penambahan daun lamtoro (*Leucaena leucocephala*) dan/atau *undegraded dietary protein* terhadap konsumsi dan kecernaan nutrien pada kambing Kacang dara. Penelitian menggunakan 16 ekor kambing Kacang dara berumur 1 sampai 1,5 tahun dengan rata-rata berat badan 12,5 kg. Ternak ditempatkan secara acak menurut perlakuan pakan rancangan acak lengkap (RAL). Perlakuan pakan terbagi dalam empat kelompok (T1, T2, T3, dan T4), masing-masing kelompok perlakuan terdiri dari empat ekor ternak. Perlakuan T1 terdiri dari 70% rumput raja, 25% *wheat bran*, dan 5% bungkil kedelai; T2 terdiri dari 70% rumput raja, 25% *wheat bran*, dan 5% bungkil kedelai terproteksi; T3 terdiri dari 70% rumput raja, 25% daun lamtoro, dan 5% bungkil kedelai; dan T4 terdiri dari 70% rumput raja, 25% daun lamtoro, dan 5% bungkil kedelai terproteksi. Hasil penelitian menunjukkan bahwa pemberian daun lamtoro dan *undegraded dietary protein* (T4) memberikan pengaruh yang nyata ( $P>0,05$ ) terhadap konsumsi bahan kering (BK), bahan organik (BO), protein kasar (PK), serat kasar (SK), lemak kasar (LK), ekstrak tanpa nitrogen (ETN), dan *total digestible nutrients* (TDN). Kecernaan nutrien pakan perlakuan T1 memberikan pengaruh yang nyata ( $P>0,05$ ) terhadap kecernaan BK, BO, PK, LK, ETN, dan TDN tetapi kecernaan SK menunjukkan pengaruh yang tidak nyata ( $P>0,05$ ). Perlakuan T4 memberikan pengaruh yang nyata ( $P>0,05$ ) terhadap pertambahan berat badan harian (PBBH). Pertambahan berat badan harian masing-masing perlakuan secara berturut-berturut sebesar T1 19,28 g/ekor/hari, T2 29,03 g/ekor/hari, T3 24,79 g/ekor/hari, dan T4 48,01 g/ekor/hari. Berdasarkan penelitian ini dapat diambil kesimpulan bahwa penambahan daun lamtoro dan *undegraded dietary protein* dapat meningkatkan konsumsi dan PBBH pada kambing Kacang dara.

Kata kunci: Kambing Kacang dara, daun lamtoro, *undegraded dietary protein*, konsumsi, kecernaan nutrien.

**EFFECT OF ADDITIONAL LAMTORO LEAVES (*Leucaena leucocephala*)  
AND/OR UNDEGRADED DIETARY PROTEIN ON CONSUMPTION AND  
NUTRIEN DIGESTIBILITY FEED AND PRODUCTIVITY  
KACANG DOE KID**

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**ABSTRACT**

The aim of this study was to observe the effect of additional *lamtoro* leaves (*Leucaena leucocephala*) and/or undegraded dietary protein on consumption and nutrient digestibility of *Kacang* doe kid. The study used 16 *Kacang* doe kid aged 1 years to 1,5 years with an average of 12,5 kg body weight. The animals were placed randomly according to completely randomized design (CRD). The feed treatment were divided into four groups (T1, T2, T3, and T4), each treatment consisted of four doe kid. Treatment T1 was consists of 70% king grass, 25% wheat bran, and 5% soya bean meal; T2 consists of 70% king grass, 25% wheat bran, and 5% soya bean meal protection; T3 consists of 70% king grass, 25% *Leucaena leucocephala*, and 5% soya bean meal; and T4 consists of 70% king grass, 25% *Leucaena leucocephala*, and 5% soya bean meal protection. The results showed that the additional *lamtoro* leaves (*Leucaena leucocephala*) and underaded dietary protein (T4) in *Kacang* doe kid had significant effect ( $P>0,05$ ) on the consumption of dry matter (DM), organic matter (OM), crude protein (CP), crude fiber (CF), ether extract (EE), nitrogen free extract (NFE), and total digestible nutrients (TDN). Nutrient digestibility of T1 had significant effect ( $P>0,05$ ) on digestibility DM, OM, CP, EE, NFE, and TDN, but digestibility CF showed non significant effect ( $P>0,05$ ). Treatment of T4 had significant effect ( $P>0,05$ ) on daily body weight gain. Daily of body weight gain for each treatment in a row that T1 19.28 g/head/day, T2 29.03 g/head/day, T3 24.79 g/head/day, and T4 48.01 g/head/day. It can be concluded that the addition of *lamtoro* leaves and undegraded dietary protein can increase consumption and daily body weight gain in *Kacang* doe kid.

Keywords: *Kacang* doe kid, *lamtoro* leaves, undegraded dietary protein, consumption, nutrient digestibility.