

**PROFIL PRODUK METABOLIT DOMBA YANG DIBERI SUSPENSI  
BAKTERI ASAM LAKTAT DAN YEAST PADA RUMPUT GAJAH DAN  
JERAMI PADI**

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**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui profil produk metabolik serum darah dan cairan rumen domba yang di beri pakan silase dengan suspensi *Lactobacillus* sp dan Yeast maupun tanpa di beri suspensi *Lactobacillus* sp.

Hewan percobaan yang digunakan dalam penelitian ini adalah 12 ekor domba jantan yang berumur  $\pm$  1 tahun yang di bagi secara acak menjadi empat perlakuan masing-masing terdiri dari tiga ulangan.

Ke empat perlakuan adalah :

P0 : rumput gajah 35% + jerami padi 35% + konsentrat 30% + tetes + air

P1 : rumput gajah 35% + jerami padi 35% + konsentrat 30% + tetes + 3% suspensi *Lactobacillus* sp  $10^6$

P2 : rumput gajah 35% + jerami padi 35% + konsentrat 30% + tetes + 1  $^{0}/_{00}$  *saccaromyces cerevicae*

P3 : rumput gajah 35% + jerami padi 35% + konsentrat 30% + tetes + 3% suspensi *Lactobacillus* sp  $10^6$  dan 1  $^{0}/_{00}$  *saccaromyces cerevicae*

Pemberian pakan dilakukan selama tiga minggu kemudian dilakukan pemeriksaan darah terhadap kadar protein darah, kolesterol, BUN, Kreatinin, dan glukosa darah 4,6,24 jam setelah pemberian pakan. Pengambilan cairan rumen dilakukan 6 jam setelah pemberian pakan. Kemudian dilakukan pemeriksaan terhadap pH, Amonia N dan konsentrasi VFA (Asetat, Propionate, Butirat).

Hasil penelitian menunjukkan bahwa kadar total protein terdapat perbedaan nyata diantara perlakuan kelompok P1 menunjukkan kadar protein tertinggi, sedangkan kolesterol dan kreatinin tidak berbeda nyata diantara perlakuan. BUN menunjukkan perbedaan yang nyata, P0 menunjukkan kadar tertinggi. Kadar glukose darah tidak terdapat perbedaan nyata diantara perlakuan, kadar glukose darah tertinggi 4 jam setelah pemberian pakan.

Profil metabolit cairan rumen menunjukkan pH, Amonia N dan Asam Asetat tidak terdapat perbedaan yang nyata diantara perlakuan sedangkan Propionate dan Butirat terdapat perbedaan yang nyata diantara perlakuan, P2 dan P3 menunjukkan kadar yang tinggi.

## METABOLIC PRODUCT PROFILE OF SHEEP WHICH GIVEN LACTIC ACID BACTERIA SUSPENSION AND YEAST ON KING GRASS AND RICE STRAW

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### ABSTRACT

This research is aimed to find out metabolic product profile on blood serum and rumen fluid of sheep, wether given silage feed with *Lactobacillus sp* suspension and yeast nor without *Lactobacillus sp* suspension.

Twelve male sheep age one year divided into four treatments. The treatments were as followed: P0 : King Grass 35% ,Rice straw 35%, Concentrate 30%, molasses and water; P1: King Grass 35% ,Rice straw 35%, Concentrate 30%, molasses and *Lactobacillus* suspension ; P2: King Grass 35% ,Rice straw 35%, Concentrate 30%, molasses and *Saccaromyces cerevicae*; P3 : King Grass 35% , Rice straw 35%, Concentrate 30%, *Lactobacillus* suspension and *Saccaromyces cerevicae*

Feed was given in three weeks, then blood examination on protein, cholesterol, BUN, Creatinine and glucose level were done 4, 6, 24 hours post feeding. Rumen fluid sampling were done 6 hours post feeding, then pH, N-Amonia, VFA (asetat, propionate, butirat) concentration examination were completed

The result showed that cholesterol, creatinine, glucose, pH, N-Amonia and Acetic level not significantly different. While BUN level, total protein level, propionate and butirat shows significantly difference, with P0 shows the highest level of BUN, P1 and P2 shows the highest level of total protein level and P2, P3 shows the highest level of propionate and butirat