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Potency Rice Straw was Deammoniated and Fermented by Celulolytic Bacteria on the Dry Matter Consumption, Body Weight Gain and Feed Conversion of Sheep

Potensi Jerami Padi yang Diamoniasi dan Difermentasi Menggunakan Bakteri Selulolitik terhadap Konsumsi Bahan Kering, Kenaikan Berat Badan dan Konversi Pakan Domba

Abstract

The aim of this study was to know potency rice straw was deammoniated and fermented by celulolytic. The measured parameters were the body weight gain, dry matter consumption and feed conversion. The experiment animals were, 12 male sheeps, aged 1 year with an average weight of 12 kg, divided in three groups. Three different food mixtures were, P0 was 40% concentrate feed and 60% rice straw fermented without Isolate Bacteria, P1 was 40% concencrate feed and 60% rice straw fermented with Isolate bacteria Acetobacter liquefaciens. P2 was 40% concentrate feed and 60% rice straw fermented with isolate bacteria mixtures Acidophilium facilis, Acetobacter liquefaciens, Cellumonas sp and Acenitobacter sp. Experimental design used was completely randomized design with three treatments and four replicates. The data were analyzed using the analysis of Variance Statistic Method and if there were differences among the treatments, The Duncan's Multiple Range Test was used. The result indicated that there were significant difference (P<0,05) in dry matter comsumption. The conclusion showed that the effect of deammoniated and fermented by isolate bacteria Acetobacter liquefaciens not influence to dry matter consumption but increased daily weight gain from 37,50 g (P0) to 52,23 g (P1) and reduced feed conversion from 13,17 (P0) become 9,85 (P1)

Keyword : rice, straw, deammoniated, fermented, body, weight, gain, feed, conversion

Daftar Pustaka :