

**PEMANFAATAN LIMBAH RAMI (*Boehmeria nivea*) SEBAGAI
BAHAN COMPLETE FEED UNTUK KAMBING PERANAKAN
ETAWAH BETINA LEPAS SAPIH**

INTISARI

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Tujuan penelitian mengetahui pengaruh *complete feed* menggunakan limbah rami tanpa atau dengan fermentasi serta sumber protein nabati atau hewani terhadap kualitas pakan, kinerja produksi dan kinerja reproduksi awal kambing PE betina lepas sapih. Penelitian dilaksanakan 2 tahap. Tahap1. Evaluasi kualitas *complete feed* limbah rami dengan dan tanpa fermentasi serta sumber protein berbeda terhadap kualitas bahan pakan Tahap 2. Evaluasi *complete feed* menggunakan limbah rami tanpa atau fermentasi dan sumber protein berbeda secara *in vivo* terhadap kualitas pakan, kinerja produksi dan kinerja reproduksi awal kambing PE betina lepas sapih. Perlakuan tanpa dan dengan fermentasi pada *complete feed* menggunakan limbah rami berpengaruh pada BK, BO dan NDF, kadar air, pH, C₂, C₃, C₄, asam laktat, pencernaan *in vitro* BO,PK, NDF dan ADF, konsumsi BK, BO dan NDF, pencernaan *in vivo* NDF dan neraca N, PBBH, berat badan akhir, panjang badan, lingkardada, lingkarpanggul, panjang puting, lingkarputing dan suhu rektal (P<0,01) serta PK/WSC, pencernaan ADF dan lebar vulva (P<0,05). Perlakuan sumber berbeda berpengaruh pada BO, PK dan ADF, C₂, NH₃-N, pencernaan *in vitro* BK, BO, PK, NDF dan ADF, konsumsi ADF, PBBH, berat badan akhir, volume ambing, lingkarputing (P<0,01) serta WSC, pencernaan *in vivo* BK dan panjang puting (P<0,05). Interaksi kedua perlakuan berpengaruh terhadap ADF, C₂, C₃, pencernaan *in vitro* PK dan NDF, konsumsi PK, pencernaan *in vivo* ADF dan neraca N, PBBH, berat badan akhir, panjang badan, lingkarputing dan panjang puting (P<0,01) serta PK, pH, PK/WSC, konsumsi BK dan pencernaan *in vivo* PK (P<0,05). Variabel lain tidak berbeda nyata.

Kata kunci: fermentasi, kambing betina PE lepas sapih, rami, sumber protein

THE USE OF RAMIE WASTE (*BOEHMERIA NIVEA*) AS COMPLETE FEED MATERIAL FOR POST WEANED FEMALE KID ETAWAH CROSS

ABSTRACT

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The aim of the research was to investigate the effect of the *complete feed* using ramie waste with or without fermentation and vegetable or animal protein sources on the quality of feed, production and pre reproduction performance of post weaning Etawah grade goats. The research was conducted in two stages; stage 1 was the evaluation of the *complete feed* quality using ramie waste with or without fermentation and different protein sources on the quality of feed; stage 2 was the evaluation of the *complete feed* using ramie waste with or without different sources of protein by in vivo to the feed parameters, production and pre reproduction performance profile of the post-weaning PE goats. The treatment with and without fermentation of the *complete feed* with ramie waste had a significantly effect on DM, OM, and NDF, water content, pH, C₂, C₃, C₄, lactic acid, in vitro digestibility of OM, CP, NDF and ADF, DM, OM and NDF consumption, in vivo digestibility of NDF and N balance, average daily gain, final body weight, body length, heart girth, pelvis circumference, the udder's volume, the length of the nipple, nipple ring, and rectal temperature (P<0.01) and also CP/WSC, digestibility of ADF and vulva's width (P<0.05). The treatment with different sources of protein affected to OM, CP and ADF, C₂, NH₃-N, in vitro digestibility of DM, OM, CP, NDF and ADF, consumption of ADF, daily body weight, post body weight, udder's volume, nipple ring, (P<0.01) and also WSC, in vivo digestibility of DM and nipple's length (P<0.05). The interaction of both treatments to ADF, C₂, C₃, in vitro digestibility of CP and NDF, CP consumption, in vivo digestibility of ADF and N balance, daily body weight, post body weight, body length, the length of the nipple, nipple ring (P<0.01) and also CP, pH, CP/WSC, DM consumption and in vivo digestibility of CP (P<0.05). The other variables were not significantly different.

Key words: female kid PE cross, fermentation, protein source, ramie