

PENGARUH SUPLEMENTASI KEDELAI AFKIR DENGAN PERLAKUAN BERBEDA PADA PAKAN TERHADAP KINERJA SAPI PERANAKAN ONGOLE

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INTISARI

Penelitian ini dilakukan untuk mengetahui pengaruh suplementasi kedelai afkir terproteksi dengan perlakuan berbeda terhadap kinerja sapi Peranakan Ongole (PO). Materi yang digunakan dalam penelitian ini adalah 12 sapi PO jantan dengan bobot badan rata-rata $239 \pm 12,29$ kg dan umur sekitar 2,5 sampai 3 tahun. Kelompok 1 (kontrol) yaitu sebanyak 4 ekor sapi PO diberi pakan jerami padi (35%) + pakan konsentrat (65%) disuplemen kedelai afkir tanpa proteksi. Kelompok 2 (pemanasan) yaitu sebanyak 4 ekor sapi PO diberi pakan sama dengan kelompok 1 dengan suplemen kedelai afkir terproteksi pemanasan. Kelompok 3 (formaldehid) yaitu sebanyak 4 ekor sapi PO diberi pakan sama dengan kelompok 1 dengan suplemen kedelai afkir terproteksi formaldehid. Pakan *asfed* diberikan 3% dari bobot badan sapi dan kedelai afkir sebanyak 6 g/kg $BB^{0,75}$, sapi dipelihara selama 84 hari, dan ditimbang setiap dua minggu sekali. Data konsumsi bahan kering (BK), bahan organik (BO), dan protein kasar (PK), konversi pakan dan persentase karkas dianalisis variansi, sedangkan pertambahan bobot badan harian (PBBH) dianalisis kovariansi dengan bobot badan awal sebagai kovariat. Hasil penelitian menunjukkan bahwa konsumsi BK, BO dan PK, PBBH, konversi pakan, dan persentase karkas berbeda tidak nyata ($P > 0,05$). Konsumsi BK (114,38, 114,58 dan 114,64) g/kg $BB^{0,75}$, konsumsi BO (97,46, 97,62, dan 98,25) g/kg $BB^{0,75}$, konsumsi PK (11,20, 11,01, dan 11,17) g/kg $BB^{0,75}$, PBBH (0,69, 0,67, dan 0,69) kg/ekor/hari, konversi pakan (11,20, 11,45, dan 10,88), dan persentase karkas (51,14, 51,29, dan 49,45)%, secara berurutan kontrol, pemanasan, dan formaldehid. Disimpulkan bahwa suplementasi kedelai afkir terproteksi sebagai *undegraded protein* (UDP) tidak meningkatkan kinerja sapi PO tua.

(Kata Kunci : Kedelai afkir terproteksi, *undegraded protein*, Pemanasan, Formaldehid, Sapi Peranakan Ongole, Kinerja)

THE EFFECT OF CAST OFF SOYBEAN SUPPLEMENTATION WITH DIFFERENT TREATMENTS ON FEED TOWARD ONGOLE CROSSBRED CATTLE PERFORMANCE

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ABSTRACT

This study was conducted to determine the effect of cast off soybean supplementation with different treatments toward Ongole Crossbred Cattle performance. Materials in this study was consist of twelve Ongole crossbred cattle which had mean body weight 239 ± 12.29 kg and approximately 2,5 until 3 years of age. First Group (Control) was consist of 4 Ongole crossbred cattle which fed with rice straw (35%) + concentrate feed (65%) which supplemented by cast off soybean without protection. Second group (heat treatment) was consist of 4 Ongole crossbred cattle which fed same with first group but supplemented by cast off soybean with heat treatment protection. Third group (formaldehyde) was consist of 4 Ongole crossbred cattle which fed same with first group but supplemented by cast off soybean with formaldehyde protection. Asfed feeding was 3% from cattle body weight and given by cast off soybean as much as $6 \text{ g/kg BW}^{0.75}$, Each of them have been reared for 84 days and weighting once per two weeks. The data of consumption of dry matter (DM), organic matter (OM), crude protein (CP), feed conversion ratio (FCR), and carcass percentage were analyzed using variance analysis, whereas average daily gain (ADG) was analyzed using covariance analysis with previous body weight as covariate. The study result was showed DM, OM, and CP consumption, ADG, FCR, and carcass percentage were not significant ($P > 0,05$). DM consumption (114.38, 114.58, and 114.64) $\text{g/kg BW}^{0.75}$, OM consumption (97.46, 97.62, and 98.25) $\text{g/kg BW}^{0.75}$, CP consumption (11.20, 11.01, and 11.17) $\text{g/kg BW}^{0.75}$, ADG (0.69, 0.67, and 0.69) kg/head/day , FCR (11.20, 11.45, and 10.88), and carcass percentage (51.14, 51.29, and 49.45)% respectively control, heat treatment, and formaldehyde. The conclusion is, protected cast off soybean supplementation feed as undegraded protein (UDP) can not increase performance of old Ongole crossbred cattle.

(Key words : Protected cast off soybean, undegraded protein, Heat treatment, Formaldehyde, Ongole crossbred cattle, Performance)