

PENGARUH ARAS SUPLEMENTASICAMPURAN DEDAK HALUS  
DAN TEPUNG DAUN LAMTOROPADA PAKAN BASAL  
JERAMI PADI TERHADAP STATUS MINERAL  
DARAH SAPIPERANAKAN ONGOLE.

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Intisari

Penelitian ini bertujuan mengetahui pengaruh suplementasi dedak halus dan tepung daun lamtoro pada ransum basal jerami padi terhadap status mineral darah sapi peranakan Ongole. 12 ekor sapi PO dengan berat badan 145-198 kg dibagi menjadi tiga kelompok perlakuan (P-1, P-2 dan P-3). P-1 diberi suplementasi dedak halus dan tepung daun lamtoro 15 g/kg berat badan metabolik ( $BBM = BB^{0,75}$ ), P-2 diberi suplementasi dedak halus dan tepung daun lamtoro 25 g/kg BBM/hari dan P-3 diberi suplementasi dedak halus dan tepung daun lamtoro 35 g/kg BBM/hari. Jerami padi dan air diberikan secara *ad libitum*. Data yang diperoleh dengan *Completely Randomized Design* (CRD) menggunakan analisa variansi. Pada yang berbeda nyata dilanjutkan dengan uji orthogonal polinomial kontras. Hasil analisa variansi menunjukkan perbedaan tidak nyata antara P-1, P-2 dan P-3 terhadap status mineral P (6,45 vs 7,45 vs 7,1) mg/100 ml Mg plasma darah (4,2 vs 4,3 vs 4,75) mg/100 ml dan mineral dan S plasma darah (0,46 vs 0,49 vs 0,53) mg/100 ml. Hasil analisa variansi antara P-1, P-2 dan P-3 menunjukkan perbedaan yang nyata ( $P < 0,05$ ) terhadap konsumsi bahan kering (87,8, vs 103,5 vs 95,4) g/kg BBM/hari. Hasil analisa variansi menunjukkan perbedaan yang nyata ( $P < 0,01$ ) terhadap konsumsi protein kasar (5,94 vs 8,39 vs 10,14) g/kg BBM/hari, konsumsi mineral Ca (0,22 vs 0,29 vs 0,32) g/kg BBM/hari, konsumsi mineral P (0,14 vs 0,22 vs 0,29) g/kg BBM/hari, konsumsi mineral Mg (0,21 vs 0,28 vs 0,31) g/kg BBM/hari, konsumsi mineral S (0,038 vs 0,051 vs 0,055) g/kg BBM/hari dan mineral Ca plasma darah (10,8 vs 11,3 vs 11,9) mg/100 ml. Disimpulkan bahwa suplementasi dedak halus dan tepung daun lamtoro dalam ransum basal jerami padi meningkatkan konsumsi bahan kering, protein kasar, mineral Ca, P, Mg, S dan kandungan mineral Ca plasma darah sapi PO tetapi tidak meningkatkan P, Mg dan S plasma darah sapi PO.

(Kata Kunci : Jerami Padi, Suplementasi, Mineral Darah).

THE INFLUENCE OF LEVEL SUPPLEMENTATION OF RICE BRAN AND  
LEUCAENA LEAF MEAL IN RICE STRAW BASAL FEED  
ON BLOOD MINERAL STATUS OF  
ONGOLE CROSSBRED

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ABSTRACT

This research was conducted to investigate the influence of supplementation level of rice bran and leucaena leaf meal in the basal rice straw ration on blood mineral status of Ongole Crossbred. Twelve cattle of Ongole Crossbred with initial body weight of 145 - 198 kg were used in this experiment and randomly divided into three treatments namely P-1, P-2 and P-3. P-1 was given supplementation level rice bran and leucaena leaf meal 15 g/kg Metabolic Body Weight ( $MBW=BW^{0.75}$ ), P-2 was given supplementation level rice bran and leucaena leaf meal 25 g/kg MBW and P-3 was given supplementation level rice bran and leucaena leaf meal 35 g/kg MBW. Rice straw and water were of fered *ad libitum*. Data obtained were analyzed using analysis of variance for completely randomized design and polynomial orthogonal contrast test when significant differences of data were found. The result showed that there were not significant differences among P-1, P-2 and P-3 on mineral P of blood plasma ( 6.45 vs 7.45 vs 7.10) mg/100ml, the mineral Mg of blood plasma (4.2 vs 4.3 vs 4.75) mg/100ml and mineral S of blood plasma (0.46 vs 0.49 vs 0.53) mg/100ml. The addition of suplement levels P-1, P-2 and P-3 significantly ( $P<0,05$ ) the consumption of total dry matter (87.87 vs 103.5 vs 95.47) g/kg MBW/day. The addition of suplement level (P-1, P-2 and P-3) could increase significantly ( $P<0,01$ ) the consumption of crude protein (5.94 vs 8.39 vs 10.14) g/kg MBW/day, the mineral consumption of Ca (0.22 vs 0.29 vs 0.32) g/kg MBW/day, the mineral consumption of P (0.14 vs 0.22 vs 0.29) g/kg MBW/day, the mineral consumption of Mg (0.21 vs 0.28 vs 0.31) g/kg MBW/day, the mineral consumption of S (0.038 vs 0.051 vs 0.55) g/kg MBW/day and the mineral Ca of blood plasma (10.8 vs 11.3 vs 11.9) mg/100 ml. It was concluded that increasing the levels of suplement rice brand and Leucaena leaf meal in creased the consumption of total dry matter, crude protein, Ca, P, Mg, S and mineral Ca of blood but not in creased P, Mg and S content in blood plasma.

(Key words : Rice Straw, Supplementation, Mineral of Blood).