PENGARUH PENAMBAHAN TRYPTOSINE DALAM RANSUM BERPROTEIN 15 PERSEN TERHADAP KINERJA AYAM BROILER *UNSEXED*

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Intisari

Penelitian ini bertujuan untuk mengetahui pengaruh penggunaan ADM Tryptosine ™ 15/70 (Tryptosine) dan L-Lisin HC1 dalam pakan rendah protein dengan kandungan PK 15% dan ME 3206 kcal/kg terhadap kinerja (konsumsi pakan, pertambahan bobot badan dan konversi pakan) ayam broiler *unsexed* (umur 1 sampai 42 hari). Delapan puluh ekor ayam broiler *unsexed* strain *Arbor Acres* CP 707 dibagi menjadi 4 kelompok perlakuan yaitu T1 (pakan non comersial), T2 (pakan non comersial ditambah L-Lisin HCl sebesar 0,4%), T3 (pakan non comersial ditambah ADM Tryptosine ™ 15/70 sebesar 0,6%) dan T4 (pakan non comersial ditambah L-Lisin HCl sebesar 0,2% dan ADM Tryptosine ™ 15/70 sebesar 0,3%. Masing-masing perlakuan terdapat 5 ulangan dan setiap ulangan terdiri atas 4 ekor ayam. Ransum dan air minum diberikan secara ad *libitum.* Data yang diperoleh dianalisis menggunakan analisis variansi acak lengkap pola searah dan hasil yang berbeda nyata diuji dengan uji beda jarak ganda *Duncan's* . Hasil penelitian menunjukkan bahwa penambahan Tryptosine dalam pakan rendah protein yang diberikan kepada ayam broiler unsexed umur 1 - 42 hari menunjukkan perbedaan yang tidak nyata terhadap konsumsi pakan, namun sangat nyata (P<0,01) dapat meningkatkan pertambahan bobot badan dan nyata (P<0,05) menurunkan konversi pakan. Dari penelitian ini dapat disimpulkan bahwa penggunaan ADM Tryptosine ™ 15/70 murni atau digunakan bersama L-lisin HCl (campuran) dapat memperbaiki kinerja ayam broiler yang meliputi pertambahan bobot badan dan konversi pakan.

(Kata kunci : Lisin, Triptofan, Pakan non comersial, Kinerja, Broiler *unsexed)*

EFFECT OF ADDITION OF TRYPTOSINE IN 15 PERCENT PROTEIN DIET ON PERFORMANCE OF UNSEXED BROILER

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Abstract

This experiment was conducted to determine the effect of ADM Tryptosine TM 15/70 (Tryptosine) and L-Lysine HC1 in the low protein diet (CP 15% and ME 3206 kcal/kg) on performance (feed consumption, weight gain, and feed conversion) of unsexed broiler (one until fourty two days old). Eighty DOC of unsexed Arbor Acres CP 707 strain were devided into four groups of treatment namely T1 (non commercial feed CP 15%), T2 (non commercial feed CP 15% + 0,4% L-Lysine HC1), T3 (non commercial feed CP 15% + 0,6% Tryptosine)and T4 (non commercial feed CP 15% + 0,2% L-Lysine HC1 + 0,3% Tryptosine). There were five replications in each treatment which involved four chickens in each replication. Feed and water drinking were given *ad libitum.* The collected data were analysed using analysis variance of Completely Randomized Design and continued by Duncan's New Multiple Range Test if the analysis of the variance indicated significant difference. The result showed that supplementation with tryptosine in low protein diet on broiler did not affect difference on feed consumption, but there were differences of weight gain ($P < .01$) and feed conversion ratio ($P < .05$) . It was concluded that the use of pure Tryptosine or L-Lysine HC1 with Tryptosine (mixture) resullted in good performance which was measured on weight gain and feed conversion of unsexed broiler.

(Key word : Lysine levels, Tryptosine, Non commercial feed, Performance, Broiler unsexed)