



**PENAMPILAN AYAM BROILER YANG MENDAPAT  
TAMBAHAN ENZIM FITASE DIDALAM PAKAN**

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**INTISARI**

Penelitian ini bertujuan untuk mengetahui penampilan ayam broiler yang diberi enzim fitase. Sejumlah 140 ekor ayam broiler CP 707 digunakan dalam penelitian ini, dengan lama penelitian lima minggu. Perlakuan yang diberikan terdiri atas tujuh macam ransum, yaitu R0 : P organik 0,5% dan P total 0,82% sebagai kontrol; R1: P organik 0,38% dan P total 0,78% ditambah 0 IU fitase; R2: P organik 0,25% dan P total 0,73% ditambah 0 IU fitase; R3: P organik 0,18% dan P total 0,74% ditambah 0 IU fitase; R4: P organik 0,38% dan P total 0,78% ditambah 500 IU fitase; R5: P organik 0,25% dan P total 0,73% ditambah 750 IU fitase; R6: P organik 0,18% dan P total 0,74% ditambah 1000 IU fitase. Rancangan yang digunakan adalah Rancangan Acak Lengkap Pola Searah dengan empat ulangan, setiap ulangan menggunakan lima ekor ayam. Untuk melihat perbedaan variabel karena perlakuan digunakan Uji Kontras Ortogonal. Hasil penelitian menunjukkan bahwa konsumsi pakan tertinggi dihasilkan oleh perlakuan R5 (P organik 0,25% ditambah enzim 750 IU) yaitu sebesar 2.325,97 gram/ekor. Kenaikan berat badan tertinggi dicapai oleh perlakuan pakan R4 (P organik 0,38% ditambah enzim 500 IU) yaitu sebesar 1.197,00 gram/ekor, serta konversi pakan terbaik dihasilkan oleh perlakuan pakan R1 (P organik 0,38% tanpa enzim) yaitu sebesar 2,11. Dari hasil di atas dapat disimpulkan bahwa pada perlakuan dengan penambahan enzim fitase sebesar 500 IU dan P organik 0,38% secara komulatif dapat memperbaiki penampilan ayam broiler.

Kata kunci : Enzim fitase, Level fosfor, Penampilan broiler



## **The Effect of Phytase Enzym Supplementation on Performance of Broiler Chicken**

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### **ABSTRACT**

The experiment was conducted to find out the effect of phytase enzym supplementation on performance of broiler chicken. One hundred and fourty broilers of CP 707 were used in this experiment, with five weeks observation. Seven treatment diets were used in this experiment, namely R0 : P organic 0.5% and P total 0.82% as a control; R1 : P organic 0.38% and P total 0.78% plus 0 IU Phytase; R2 : P organic 0.25% and P total 0.73% plus 0 IU Phytase; R3 : P organic 0.18% and P total 0.74% plus 0 IU Phytase; R4 : P organic 0.38% and P total 0.78% plus 500 IU Phytase; R5 : P organic 0.25% and P total 0.73% plus 750 IU Phytase; R6 : P organic 0.18% and P total 0.74% plus 1000 IU Phytase. The experiment used One Way Completely Randomized Design four replications and consisted of five broiler chickens each. Orthogonal contrast test was used to find out the difference between variables. The result indicated that highest feed consumption was resulted by treatment R5 (P organic 0.25 % plus phytase enzym 750 IU) to the amount of 2,325.97 gram/bird. The highest increased of body weight was resulted from R1 dietary treatment (P organic 0.38 % plus phytase enzym 500 IU) to the amount of 1,197.00 gram/bird, with best feed conversion resulted by R1 dietary treatment ( P organic 0.38 % without enzym) that was 2.11. The experiment could be concluded that feed consumption with addition of phytase enzym 500 IU and P organik 0.38% cumulatively gave significant result on performance of broiler chicken.

Key words : Phytase enzyme, Phosphorous level, Broiler performance