

Influence of Biozyme Supplementation on Broiler Chickens Fed Diet Containing Rice Bran

Sunusi Adamu¹, Zaharaddeen Lawan¹, Surayya D. Alhassan¹,
Baraya H.G² and Hassan Garba Baraya²

Department of Agricultural Technology, School of Agriculture
Hussaini Adamu Federal Polytechnic, Kazaure, Jigawa State Nigeria.
Savannah Forestry Research Station, Samaru, Zaria, Kaduna State Nigeria.
sunusiadamuyarimawa@gmail.com

Abstract: *The study was conducted at Kazaure in the semi-arid zone of northern Nigeria between latitude 12° 41' 28.7'' - 13° 00' N and longitude 07° 50' E - 08° 25' 21.1'' E with temperature ranges from 15.85°C - 39°C for a period of Eight weeks, to determine the intake and carcass quality of broiler chickens fed diet containing rice bran with biozyme supplementation. Ninety-six (96) day- old broiler chickens were used for the study. The birds were randomly grouped in to four treatments, and replicated three each, with eight birds per replication. Four experimental diets each for starter and finisher were formulated such that, diet 1 (control) contained rice bran with 0% enzyme (biozyme) and diets 2, 3 and 4 contained rice bran with varying proportions of biozyme at 7%, 14% and 21% respectively. The four treatments were allocated to those four experimental diets accordingly, and laid on a Completely Randomized Design (CRD). Initial body weight, daily feed intake, weekly weight gain, final weight and carcass weight of randomly selected birds were recorded. The result obtained for daily feed intake indicated no significant difference ($p > 0.05$) observed among the treatments. The findings for the growth performance revealed a significant difference ($p < 0.05$) among the treatments, where T4 (2106.63g) recorded highest value and least value in T1 (1451.70g). The result for carcass weight revealed a significant difference ($p < 0.05$) among the treatments, where T4 (1204.00g) recorded the highest value and the least value in T1 (824.00g) respectively. Based on the findings obtained in the study, broiler chickens could be fed diet containing rice bran with biozyme supplementation at up to 21% level of inclusion for an efficient intake, growth performance and carcass quality without any adverse effect in their performance*

Keywords: Biozyme, Supplementation, Broiler diet, Rice bran and Broiler chickens

