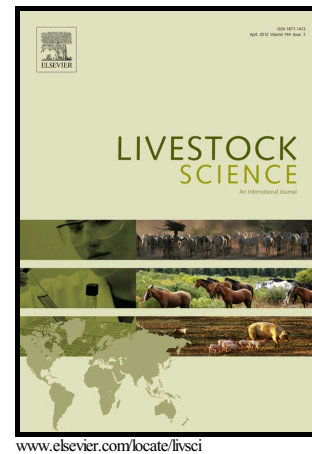


Author's Accepted Manuscript

Effect of different exogenous proteases on growth performance, nutrient digestibility, and carcass response in broiler chickens fed poultry by-product meal-based diets for 35 d

T. Mahmood, M.A. Mirza, H. Nawaz, M. Shahid



PII: S1871-1413(17)30123-3
DOI: <http://dx.doi.org/10.1016/j.livsci.2017.04.009>
Reference: LIVSCI3201

To appear in: *Livestock Science*

Received date: 24 May 2016
Revised date: 6 March 2017
Accepted date: 13 April 2017

Cite this article as: T. Mahmood, M.A. Mirza, H. Nawaz and M. Shahid, Effect of different exogenous proteases on growth performance, nutrient digestibility and carcass response in broiler chickens fed poultry by-product meal-based diet for 35 d, *Livestock Science*, <http://dx.doi.org/10.1016/j.livsci.2017.04.009>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and a review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Effect of different exogenous proteases on growth performance, nutrient digestibility, and carcass response in broiler chickens fed poultry by-product meal-based diets for 35 d

T. Mahmood^{a,*}, M. A. Mirza^a, H. Nawaz^a, M. Shahid^b

^a *Institute of Animal Sciences, University of Agriculture, Faisalabad, Pakistan*

^b *Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan*

*Corresponding author. Tel.: +92 41 920 0161; fax: +92 41 920 0764. *E-mail address:* tahir472@gmail.com (T. Mahmood).

A B S T R A C T

This study was conducted to examine the effect of different proteases with varied optimum pH range (acid and neutral) on growth performance, nutrient digestibility, and carcass characteristics of broiler chickens fed poultry by-product meal-based diets. The acid protease contained 50,000 U/g and the neutral protease contained 25,000 U/g of premix. The broiler chickens (n = 200) were assigned to 5 treatments with 4 replicate pens per treatment and 10 broiler chickens per pen in a completely randomized design. Five diets were iso-energetic and iso-nitrogenous (metabolizable energy, 2,850 kcal/kg; crude protein, 20%) and broiler chickens had ad libitum access to diets for 35 d. A corn-soybean meal-based negative control (NC) diet was formulated on digestible amino acid basis. A positive control (PC) corn-soybean meal-based diet containing 3% poultry by-product meal was formulated on digestible amino acid basis, and it was supplemented with acid protease mix (80 g/t; PC-A), neutral protease mix (160 g/t; PC-N), or 50/50 combination of the two (120 g/t; PC-C). Overall feed intake was not affected by any of the treatment. However, broiler chickens fed

Download English Version:

<https://daneshyari.com/en/article/5542978>

Download Persian Version:

<https://daneshyari.com/article/5542978>

[Daneshyari.com](https://daneshyari.com)