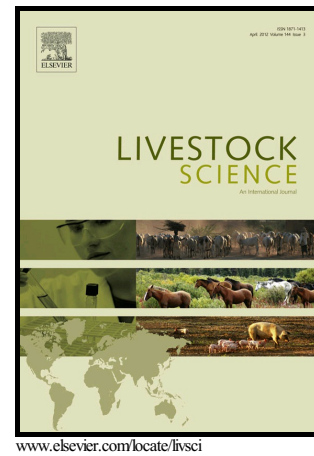


Author's Accepted Manuscript

Increase in dietary arginine level could ameliorate detrimental impacts of coccidial infection in broiler chickens

M. Laika, R. Jahanian



PII: S1871-1413(16)30247-5
DOI: <http://dx.doi.org/10.1016/j.livsci.2016.11.002>
Reference: LIVSCI3092

To appear in: *Livestock Science*

Received date: 26 March 2016
Revised date: 16 September 2016
Accepted date: 4 November 2016

Cite this article as: M. Laika and R. Jahanian, Increase in dietary arginine level could ameliorate detrimental impacts of coccidial infection in broiler chickens *Livestock Science*, <http://dx.doi.org/10.1016/j.livsci.2016.11.002>

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 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

Increase in dietary arginine level could ameliorate detrimental impacts of coccidial infection in broiler chickens

M. Laika^a, R. Jahanian^{b*}

^aDepartment of Animal Sciences, College of Agriculture, Isfahan University of Technology, Isfahan 84156-83111, Iran

^bPoultry Nutrition Research Center, Bioscience Research Institute, Isfahan 81398-67433, Iran

*Corresponding author. Tel.: +98 31 3442 6808; fax: +98 31 3440 1240. *E-mail address:* r.jahanian@gmail.com (R. Jahanian).

Abstract

The present study was conducted to investigate the effect of dietary supplementation of Arg on growth performance, carcass characteristics, and morphological indices of jejunal epithelial cells in coccidia-challenged broiler chickens. A total of 288 one-day-old broiler chickens were randomly distributed among 3 experimental treatments with 8 replicate pens of 12 broiler chickens each. Experimental treatments consisted of the graded levels of dietary Arg (100, 105, and 110% of the standard recommendations during different growth periods). From 16 to 20 d of age, half of the replicate pens of each dietary Arg level were orally challenged with a mixture of Eimeria species (*acervulina*, *tenella*, *maxima*, and *necatrix*). Results showed that dietary Arg had no marked effect on average daily feed

Download English Version:

<https://daneshyari.com/en/article/5543162>

Download Persian Version:

<https://daneshyari.com/article/5543162>

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