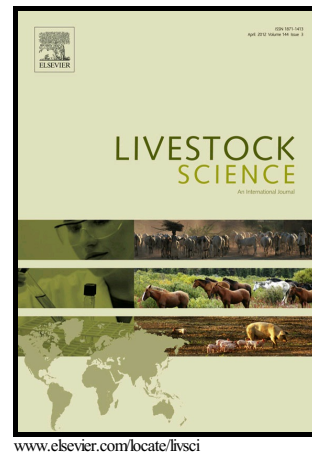


Author's Accepted Manuscript

Computed tomographic precision rate-of-passage assay without a fasting period in broilers: more precise foundation for targeting the releasing time of encapsulated products

J.D. Liu, S.A. Secrest, J. Fowler



PII: S1871-1413(17)30120-8
DOI: <http://dx.doi.org/10.1016/j.livsci.2017.04.006>
Reference: LIVSCI3198

To appear in: *Livestock Science*

Received date: 3 November 2016
Revised date: 30 March 2017
Accepted date: 10 April 2017

Cite this article as: J.D. Liu, S.A. Secrest and J. Fowler, Computed tomographic precision rate-of-passage assay without a fasting period in broilers: more precise foundation for targeting the releasing time of encapsulated products, *Livestock Science*, <http://dx.doi.org/10.1016/j.livsci.2017.04.006>

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.

**Computed tomographic precision rate-of-passage assay without a fasting period in broilers:
more precise foundation for targeting the releasing time of encapsulated products**

J.D. Liu^a, S.A. Secrest^b, J. Fowler^{a,*}

^aDepartment of Poultry Science, University of Georgia, Athens, GA, USA

^bDepartment of Veterinary Biosciences and Diagnostic Imaging, University of Georgia, Athens, GA, USA

*Corresponding author. Tel.: +1 706 5425567; fax: +1 706 5428383. *E-mail address:*
jfowl@uga.edu (J. Fowler).

ABSTRACT

The objective of this study was to develop a precision-fed rate-of-passage assay using iodinated contrast as an indigestible marker in broiler chickens. In this experiment, twenty-two Cobb-Cobb male broilers were obtained on the day of hatch and fed a standard corn-soybean meal starter diet until day 21. All birds were then orally gavaged 3 g of feed mixed with 2 ml of iodinated contrast. Two birds were selected for collection of the gastrointestinal tract (gizzard, duodenum, jejunum, ileum, ceca, and colon) at 0:15, 0:30, 0:45, 1:00, 1:30, 2:00, 2:30, 3:00, 4:00, 5:00, 6:00 h post-gavage. A computed tomographic exam of the intestinal tract was conducted to determine

Download English Version:

<https://daneshyari.com/en/article/5542983>

Download Persian Version:

<https://daneshyari.com/article/5542983>

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