

## الايه

بسم الله الرحمن الرحيم

قال تعالى :

وَالْحَمْدُ لِلَّهِ طَيْرٌ { مِمَّا يَشْتَهُونَ }

صدق الله العظيم

سورة الواقعة

الاية (21)

*Dedication*

*To my parents,*

*To my uncles,*

*To my sisters,*

*To my brothers,*

*To my husband,*

*To my son,*

*To my friends,*

*To My colleagues,*

## **Acknowledgments**

Thanks to God before and after

If Boxing express even a part of the fulfillment of Valahdae to:

Prophet Muhammad, peace be upon him)) teacher and the source of human science My special thanks to Professor Kamal AbdElbagi Mohmmmed who helped bring this search in its final form and then Dr. Awad Elkrem Eltigani Elfke , who help me a lot and gave me the information needed to complete this search.

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Forget not Alguar plant represented in the character of Dr. Mohammed and Mr. Alaa and the Organization of Labena, which gave me a lot even managed to reach this stage.

## **Abstract**

This study was conducted to evaluate the nutritive value of guar meal for conventional protein sources. Complete randomized block design (CRBD) was used in this experiment. Total number of 224, 7 days-old unsexed Ross-308 strain broiler chicks of approximately similar initial weight were randomly divided into 8 experimental groups with 4 replicates, each of 7 chicks. Eight iso-nitrogenous and iso-caloric rations were formulated and allotted randomly to the 8 groups with guar meal as unconventional protein source was incorporated in broiler diets by replacing groundnut cake at 0, 33, 66 and 100% with and without dietary commercial enzyme (xylam500). Chicks were fed for 6 weeks. Experimental parameters covered performance, carcass yield meat quality and economic appraisal.

No apparent health ill effects were recorded on guar meal feeding at all levels of replacement but, live weight gain, feed intake and feed conversion efficiency values were decreased significantly ( $P < 0.05$ ) in descending order as the level of guar meal increased in the diets. The enzyme addition had no significant ( $P < 0.05$ ) effect on the body weight gain and feed conversion efficiency, in all treatment groups whereas, the feed intake was increased significantly ( $P < 0.05$ ) at all dietary treatment groups by enzyme addition but, the groups fed on guar meal were still significantly ( $P < 0.05$ ) below the control group in feed intake values.

The results indicated that there were no significant differences among all treatment groups in the percent of carcass dressing, giblets, commercial cuts and their percent of separable meat, meat chemical composition and subjective meat quality parameters of broiler chicks.

The result of economical evaluation showed that as the level of guar meal with or without enzyme supplementation increased in the diets the profitability ratio decreases in broiler production.

## المـلـخـص

أجريت هذه التجربة لتقييم إحلال وجبة القوار محل المصادر البروتينية التقليدية، تم إستخدام نظام القطاعات العشوائية الكاملة فى تصميم هذه التجربة، أستخدم عدد (224) كتكوت لاحم، غير مجنس فى عمر (7) أيام من سلالة الروس 308, متساوية تقريبا فى الوزن الإبتدائى, قسمت عشوائيا إلى 8 مجاميع تجريبية, كل مجموعة ضمت 4 مكررات, بكل مكرر 7 كتاكيت. تم تركيب 8 علائق تجريبية تكون متماثلة فى البروتين الخام والطاقة الممتلئة ووزعت عشوائيا على الثمانية مجموعات حيث تم إحلال وجبة القوار كمصدر غير تقليدى للبروتين محل أمبار الفول السودانى بالمعدلات صفر, 33%, 66%, 100% مع وبدون إضافة الإنزيم التجارى الزيلام 500. تم تغذية الكتاكيت على العلائق التجريبية لمدة 6 أسابيع. شملت قياسات التجربة الأداء الإنتاجي ، قيم الصفات الكمية والنوعية للذبيحه والتقييم الإقتصادي.

لم يكن هنالك تأثير مرضي مقدر خلال فترة التغذية بوجبة القوار فى كل مستويات الإحلال ولكن كانت قيم الوزن المكتسب، إستهلاك العليقة والكفاءة التحويلية للغذاء تتخفص معنوياً ( $P < 0.05$ ) وبنسق تنازلي كلما زاد مسوى نسبة وجبة القوار فى العليقة. لم يكن لإضافة الإنزيم إلى العلائق التجريبية أى تأثير معنوي علي الوزن المكتسب والكفاءة التحويلية للغذاء فى حين أن كمية الغذاء المستهلكة قد زادت معنوياً ( $P < 0.05$ ) فى كل المجموعات التجريبية نتيجة لإضافة الإنزيم إليها ولكن المجموعات المغذاه علي وجبة القوار مازالت أدنى معنوياً ( $P < 0.05$ ) من المجموعة القياسية فى معدل إستهلاك العليقة.

دلت النتائج علي أنه لم توجد أى فروقات معنوية بين مجموعات المعاملات المختلفة فى نسب التصافى، الأعضاء الداخلية، القطع التجارية ونسب اللحم لكل منها، مكونات التحليل الكيمايى للحم وقياسات اللحم الإنبطاعية للدجاج اللحم.

أظهر نتائج التقييم الإقتصادي أنه كلما زاد مستوى نسبة القوار سواء مع أو بدون إضافة الإنزيم التجارى فى العليقة كلما إنخفضت الربحية النسبية من إنتاج الدجاج اللحم.

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