DEDICATION

To the memory of our greatest teacher

Mohamed Bin Abdellah;

To my father; my mother;

My wife;

Beloved son Mohamed;

My uncle in law;

My ant in law;

My brothers

And

All my friends.

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ABSTRACT

Prosopis juliflora pod, as unconventional feed ingredients was incorporated in broiler diets at o, 5, 10 and 15 percent levels with or without enzyme (xylam). An experiment was conducted for 168 broiler chicks with 7-day old unsexed commercial (Ross 308) broiler chicks were randomly distributed in 8 groups (treatments) of 21 chicks divided to three replicates with 7 chicks/ replicate.

Chicks fed on diet containing 5% Prosopis pod (PP) supplemented with enzyme recorded significant ($P<0.05$) heavy body weight, body weight gain and the best value for feed conversion ratio.Chicks on 5%(PPF) recorded significant ($P<0.05$) in feed intake, while all levels of (PPF) supplemented with enzyme recorded significant ($P<0.05$) differences. No significant differences were noticed in dressing, breast meat, drumstick and thigh percentage due to (pp) level or supplementation with enzyme. Also there were no significant differences ($P>0.05$) recorded for physical and chemical composition of broiler meat, feces chemistry and constituents of blood plasma.

Enzyme supplementation apparently improved the general performance of broiler chicks in all the dietary treatments.

Economically Prosopis pods can be safely included in broiler diets up to 5% with enzyme, without any adverse effect.

ملخص الأطروحة

تم اضافة ثمار المسكيت كمكون علفي غير تـ قليدي في علائق الدجاج اللاحم بالنسب الأتيه : 0% ، 5% ، 10% و 15% مع أو بدون إنزيم الزيلانيز(زيلام 500)

تم اجراء التجربة باستخدام 168 كتكوت لاحم غير مجنس من سلالة (روص 308) في عمر أسبوع ، وزعت عشوائياً إلى 8 مجاميع (معاملات) بوا قع 21 كتكوت لكل معاملة ،بثلاثة مكررات قسمت الئ 7 كتاكيت /مكرر.

سجلت الكتاكيت التي غذيت بعليـ قة تحتوي على 5%ثمار المسكيت مع اضافة الانزيم ، فرو قات معنوية (P<0.05) في كل من الوزن النهائي , الوزن المكتسب، و الكفاءة التحويلية. سجلت الكتاكيت التي غذيت بعليـ قة تحتوي على 15%ثمار المسكيت و الكتاكيت التي غذيت بعليـ قة تحتوي على كل المستويات من ثمار المسكيت المحتوية على الانزيم فرو قات معنوية (P<0.05) للعليـ قة المستهلكة

أوضحت النتائج المتحصل عليها أيضاً عدم وجود فرو قات معنوية (P>0.05) للمعاملات المختلفة في نسبة التصافي في الوزن الحار والـ قطع التجارية المختارة كما لم تظهر فرو قات معنوية (P>0.05)في المعاملات المختلفة بالنسبة للتركيب الكيميائي للحم والاختبارات الحسية للـ قطع التجارية المختارة (الفخذ – الصدر - الساق) والتحاليل الكيميائية لعينات الزرق والدم للمعاملات المختلفة.

أظهرت النتائج جليا أن إضافة الإنزيم إلى علائق الدجاج اللاحم تحسن الأداء العام للكتاكيت في كل المعاملات.

اشارت الدراسة الا قتصادية انه يمكن اضافة ثمار المسكيت في علائق الدجاج اللاحم حتى 5%مع اضافة الانزيم دون أي تاثيرات سالبة.