



ChemTech

## International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555  
Vol.10 No.7, pp 372-376, 2017

### In-vitro Anti-Diabetic Activity from Poultry Waste

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**Abstract :** Diabetes is a metabolic disease in which the person has high blood glucose due to lack of insulin secretion. Patient may lack of keratin. The damage of epithelial cells is protected using keratin. It is the key structural material making up the outer layer of human skin. Protein helps to secrete insulin. Chicken feathers have elevated keratin protein content and can be a suitable protein source. The feather is composed of about 90% of keratin, which has a structure characteristic of materials of high mechanical strength. In this work, keratin is extracted from Chicken feathers. The keratin should be mixed with saturated fat for easy absorbent of vital protein. The keratin property can be characterized using FTIR. To confirm the properties of anti diabetic, in vitro studies were carried out and confirmed the anti diabetic property.

**Keywords :** Anti-Diabetics, Keratin, chicken feather, Amylase activity.

C.Divya *et al* /International Journal of ChemTech Research, 2017,10(7): 372-376.

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