

## Research Abstract

### METABOLISM AND NUTRITION

#### **Digestibility (Apparent Metabolizable Energy and Amino Acid Utilization in Broiler Chickens) of non-extruded and Extruded LinPro**

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#### Purpose :

To measure the apparent nutrient digestibility (faecal AME, ileal amino acid digestibility) of non-extruded and extruded LinPro using broiler chickens.

#### Methodology :

- Male broiler chicks were fed a commercial diet until 22 days of age. Following this, birds were randomly assigned into the two dietary treatments.
- Each of the treatment diets (40% non-extruded or extruded LinPro) and the basal diet were replicated 6 times with 5 birds per replication.
- Test meals were added to a basal diet at the expense of the diet as a whole. Celite was added to all diets as a source of indigestible marker.
- After being on treatment diets for 7 days, contents of the distal ileum were collected. Coefficients of apparent ileal digestibility of amino acids were calculated.

#### Results :

Extrusion of LinPro produced a major increase in performance and clearly demonstrated the beneficial effects of extrusion. The use of LinPro also caused a major increase in its AME and apparent ileal amino acid digestibility.

#### Conclusion :

- Extrusion of LinPro results in a dramatic increase in its nutritional value.