

FRA[®] LeciMax Dry

- » Improves fat emulsification
- » Maximizes energy from dietary fats
- » Maximizes nutrient absorption from feed
- » Lowers feed conversion rate
- » Save on feeding costs



Lypo-**lecithins**

IMPROVED PERFORMANCE

MAX. ENERGY

FRA[®]

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FRA[®] LeciMax Dry



The Challenge

The intensive animal production industry requires animals to grow fast with a minimum of feed consumed. Diets are extremely rich in nutrients, one of them being energy. Fats and oils may represent more than 25% of this energy.

The digestive tract is an aqueous environment and fats and oils are lipophilic substances that need to be emulsified before being digested. Fat digestion is a real challenge in young animals such as broilers and young turkeys, as they do not produce sufficient bile acids for an efficient emulsification.

High inclusions of fat in intensive animal production will gradually lower the digestibility because of lack of emulsification in the aqueous environment of the gastro intestinal tract.

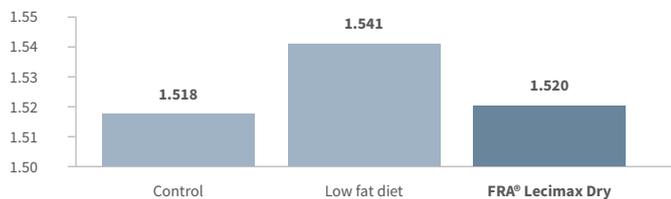
Absorption is a critical step since only absorbed nutrients can be transported throughout the body and trigger the growth and performance of the animal. The challenge is how to make animals able to digest all these fats.

Trial results

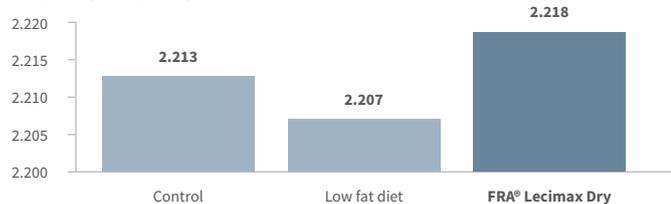
Partial fat replacement by FRA[®] LeciMax Dry in broiler diets.

Adding FRA[®] LeciMax Dry to a lower fat diet resulted in similar FCR as found for the control group with standard fat levels. Moreover, final body weight was highest in the group receiving FRA[®] LeciMax Dry. This means that 500 gram of FRA[®] LeciMax Dry can replace 1% soybean oil, while maintaining broiler performance and reducing feed costs.

FCR (day 0-35)



Body weight day 35 (g)



Control

Standard fat levels

Low fat diet

1% soybean oil was replaced by 0.5% wheat and 0.5% corn

FRA[®] LeciMax Dry

Low fat diet plus 500 gram FRA[®] LeciMax Dry / ton of feed

The Solution

Framelco has developed FRA[®] LeciMax Dry, containing a natural source of hydrolyzed lecithins acting as a bio-surfactant. The hydrolyzed lecithins assist the bile phospholipids to emulsify dietary fats and to form highly dispersible micelles.

Lyso-lecithins and more particularly the lysophosphatidylcholine (LPC) in FRA[®] LeciMax Dry interfere with cell membranes, increasing their fluidity and consequently, their permeability. This will enhance nutrient absorption and maximize fat digestion.



IMPROVED PERFORMANCE

Characteristics

- Available in a highly concentrated dry form
- Free flowing and non-caking
- Heat stable
- Produced in GMP+ certified facilities
- Available in 20 kg bag, 1000 kg big bag

Usage

Advised dosage per ton of feed is as follows:

- For broilers and young turkeys: 0.25 – 0.5 kg
- For fattening turkeys: 0.25 kg
- For layers and breeders: 0.25 – 0.5 kg
- FRA[®] LeciMax Dry can be added on top or reformulated into the diet. Replacing part of the fat content is possible as well.
- It is recommended to contact your local FRAmelco technical sales manager to determine farm specific dose levels and reformulation options.

Los datos de este folleto se basan en nuestra experiencia y nuestros conocimientos actuales. Dado que numerosos factores, durante y después de la aplicación, pueden influir en el rendimiento de nuestro producto, los procesadores serán responsables de llevar a cabo sus propias pruebas e investigaciones. Es posible que ciertas afirmaciones no se puedan aplicar en todas las regiones geográficas. Las reclamaciones relacionadas con el producto podrán diferir en función de los requisitos gubernamentales.

FRA[®]

Formulating Revolutionary Additives