

FRA[®] Gut Balance

- » Inhibits gram-negative bacteria
- » Inhibits gram-positive bacteria
- » Stimulates optimal gut balance
- » Improves FCR
- » Improves litter quality



GUT DEVELOPMENT

TARGET RELEASE

α -Monoglycerides

FRA[®]

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FRA[®] Gut Balance

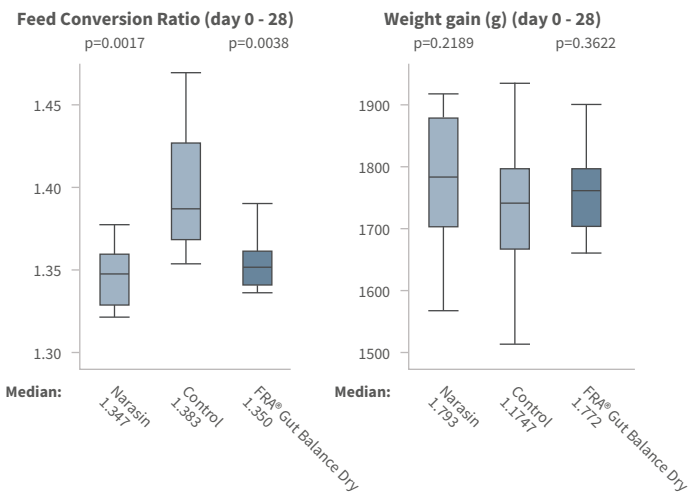


The Challenge

Dysbacteriosis is a shift in intestinal microbiota composition resulting in an imbalance between beneficial and harmful bacteria. This can result in a decreased nutrient digestion and utilization, leading to reduced production performances, increased incidence of health problems, wet litter and even mortality.

During the years, bacteria developed antibiotic resistance which resulted in a ban on the use of AGPs in feed for food producing animals in Europe and other countries where the awareness has been raised. In order to maintain health and performance of livestock, the market needs a tool which stimulates an optimal gut balance in animal bodies.

Trial results



Above results are obtained from a trial in which broilers were challenged with coccidia, inducing a secondary infection of *Clostridium Perfringens*. Results show that FRA[®] Gut Balance Dry was able to improve both weight gain and feed conversion ratio. In addition, the results obtained in the FRA[®] Gut Balance Dry group were much more uniform indicated by the smaller box plot. Hence, FRA[®] Gut Balance Dry was able to reduce the negative effect of the infection on broiler performance as indicated by above box plots.

Dose levels used in this trial

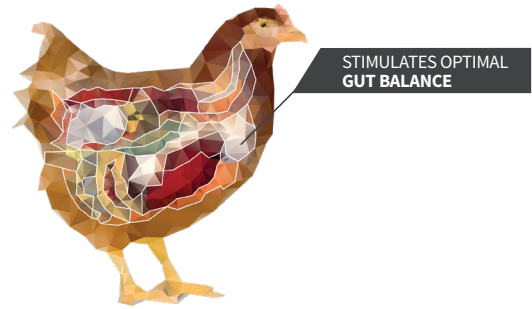
FRA[®] Gut Balance Dry: 3 kg/ ton feed (day 0-14); 2.5 kg/ ton feed (day 15-28)
Narasin (anticoccidia): 70 ppm in the grower feed
Negative control: no additive, no anticoccidia

The Solution

FRAmelco has developed FRA[®] Gut Balance: a specific formula containing mainly 1-monoglycerides of propionic acid, butyric acid, caprylic acid and capric acid. Feeding this product will stimulate an optimal gut balance in poultry, resulting in improved health and production performances.

» 1-Monoglycerides

Extensive research shows that short and medium chain 1-monoglycerides possess antibacterial and animal performance improving properties. FRA[®] Gut Balance contains 1-monoglycerides of short chain fatty acids to inhibit gram-negative pathogenic bacteria and 1-monoglycerides of medium chain fatty acids to inhibit gram-positive pathogenic bacteria. As a result of the unique mode of action, 1-monoglycerides are active in the entire gastrointestinal tract. It is also suggested by literature that 1-monoglycerides have the potential to be used as an alternative



Characteristics

- Available in dry and liquid form
- Available as drinking water application
- Heat stable
- Neutral taste and odour
- Non corrosive
- Active in GIT
- pH independent
- Available in 25 kg bag, 1000 kg big bag and bulk
- 1 kg bottle, 10 and 25 kg can, 250 kg drum, 1000 kg IBC
- Produced in GMP+ certified facilities

Usage

Advised dosage is as follows:

- FRA[®] Gut Balance Dry: 1.5 – 3.0 kg/ ton of feed
- FRA[®] Gut Balance Liquid: 1.0 – 2.0 kg/ ton of feed
- FRA[®] Gut Balance DW Liquid: 0.5 – 2.0 kg/ 1000 L water
- It is recommended to contact your local FRAmelco technical sales manager to determine a farm specific dose level
- Use continuously
- Apply via feed or drinking water

FRA[®]

Formulating Revolutionary Additives