

# FRA<sup>®</sup> Gut Balance

- » Inhibits gram-negative bacteria
- » Inhibits gram-positive bacteria
- » Stimulates optimal gut balance
- » Improves FCR
- » Control diarrhea



GUT DEVELOPMENT

TARGET RELEASE

$\alpha$ -Monoglycerides

**FRA<sup>®</sup>**

Framelco HQ  
Ruisvoorn 5  
4941 SB Raamsdonksveer  
The Netherlands  
Tel. +31 (0) 880 443 300  
info@framelco.com  
framelco.com

# FRA<sup>®</sup> Gut Balance



Data of this flyer are based on our current knowledge and experience. As many factors during and after application may effect the performance of our product, processors are responsible for carrying out their own tests and investigations. Certain statements may not be applicable in all geographical regions. Product associated claims may differ based upon government requirements.

## The Challenge

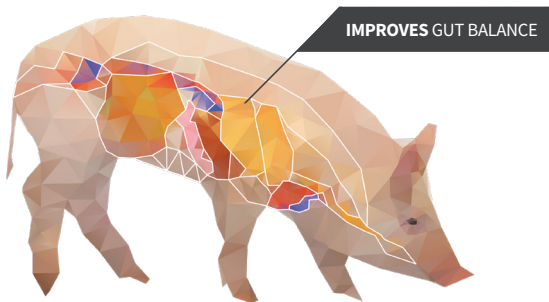
Dysbacteriosis is a shift in intestinal microbiota composition resulting in an imbalance between beneficial and harmful bacteria. This can result in a decreased nutrient digestion and utilization, leading to reduced production performances, increased incidence of health problems such as diarrhea and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

	Control	FRA <sup>®</sup> Gut Balance Liquid (2 kg / ton)	Difference 2 kg vs. Control
Number of pigs	1400	1400	-
Initial weight (kg)	27.3	24.7	-2.6
Final weight (kg)	68.5	64.8	-3.7
Growth (kg)	41.2	40.1	-1.1
Period (days)	61	56	-5
Average daily weight gain (g)	675	716	41
Feed intake (kg/day)	1.713	1.694	-0.019
FCR	2.54	2.37	-0.171

Results show that the addition of 2 kg FRA<sup>®</sup> Gut Balance Liquid/ton of feed resulted in higher average daily weight gain and a better FCR compared to the control group. Please note that the trial period was shorter in the treatment group due to farm management.



## The Solution

FRAmelco has developed FRA<sup>®</sup> 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 swine, 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<sup>®</sup> 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 for preventive use of antibiotics.

### 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<sup>®</sup> Gut Balance Dry: 1.5 – 3.0 kg/ ton of feed
- FRA<sup>®</sup> Gut Balance Liquid: 1.0 – 2.0 kg/ ton of feed
- FRA<sup>®</sup> 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<sup>®</sup>**

Formulating Revolutionary Additives