

Trial results demonstrate BalanGut® LS's ability to support gut health and wellbeing

Table 1. MIC assay comparison of blend of short and medium chain fatty acid glycerides versus simple salts of butyric acid

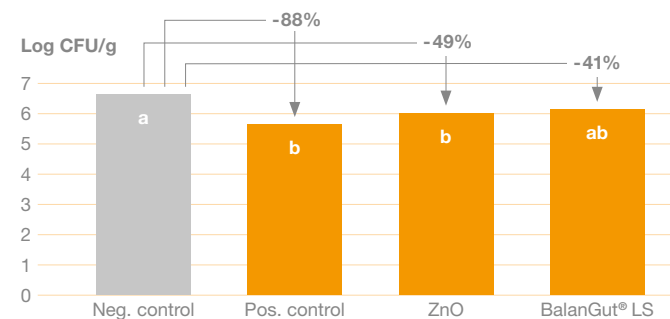
Tested product	pH	<i>S. typhimurium</i>	<i>C. perfringens</i>	<i>E. coli</i>	<i>Lactobacillus spp.</i>
Monoglyceride blend	4.5	0.06%	0.01%	0.12%	No inhibition
Monoglyceride blend	7	0.06%	0.01%	0.12%	No inhibition
Sodium butyrate	6	2.8%	3.0%	2.9%	n.d.

Source: G. Tosi, L. Alborali. WPSA-48th National Congress of the Scientific Association of Aviculture, April 2011.

In vivo data.

Piglet trial in Spain (IRTA). Weaned piglets challenged with a pathogenic strain of *E. coli* (K88).

Fecal shedding of *E. coli* (average 0-14 exp. days)



Negative control group: Challenged with *E. coli*
No feed additive in diet

Positive control group: Challenged with *E. coli*
feed supplemented with Colistin 80 ppm

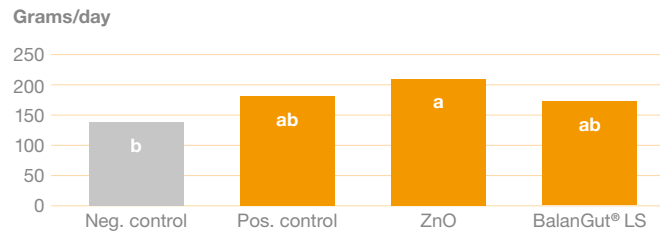
Zinc oxide group: Challenged with *E. coli*
feed supplemented with ZnO 2500ppm

BalanGut® LS group: Challenged with *E. coli*
supplemented with BalanGut® LS 3000ppm

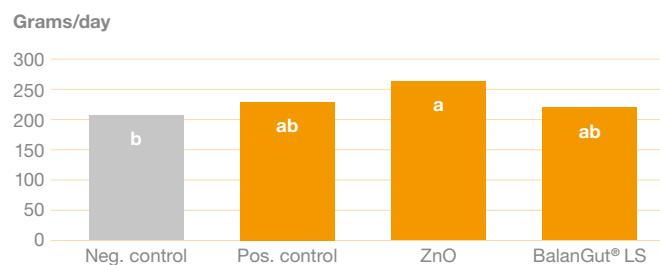
ab superscripts mean that values are statistically different (P<0.05; Tukey adjustment)

Internal reference: TID-60-19

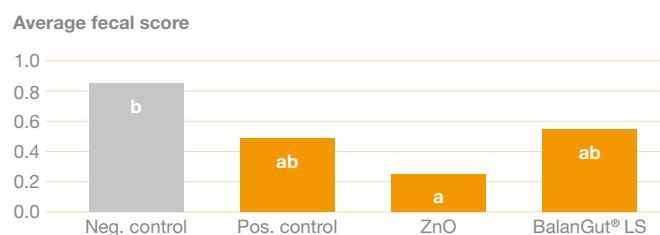
Body weight gain (day 0-21) (17d PI)



Feed intake (day 0-21) (17d PI)



Fecal scores (day 21) (17d PI)



Choose the BalanGut® LS formulations that are right for you

Product name	Form	Application	Packaging	Article number
BalanGut® LS P	Powder	Livestock Pigs, Poultry	25 Kg Paper bag 650 Kg Big bag	50624860 50624881
BalanGut® LS L	Liquid	Livestock Pigs, Poultry	20 Kg Jerry can 1000 Kg IBC	50624857 50624858

Also available for aquaculture

BalanGut® AQ P	Powder	Aquaculture Fish, Shrimp	25 Kg Paper bag 650 Kg Big bag	50625849 50625855
BalanGut® AQ L	Liquid	Aquaculture Fish, Shrimp	20 Kg Jerry can 1000 Kg IBC	50624702 50624706

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BASF
We create chemistry

BalanGut® LS

The right balance for a healthy gut and sustainable wellbeing



The unique mixture of naturally occurring monoglycerides of short and medium chain fatty acids.

- Supports enteric microbial balance
- Improves gut integrity
- Supports animal wellbeing

The science of sustainable feed that succeeds

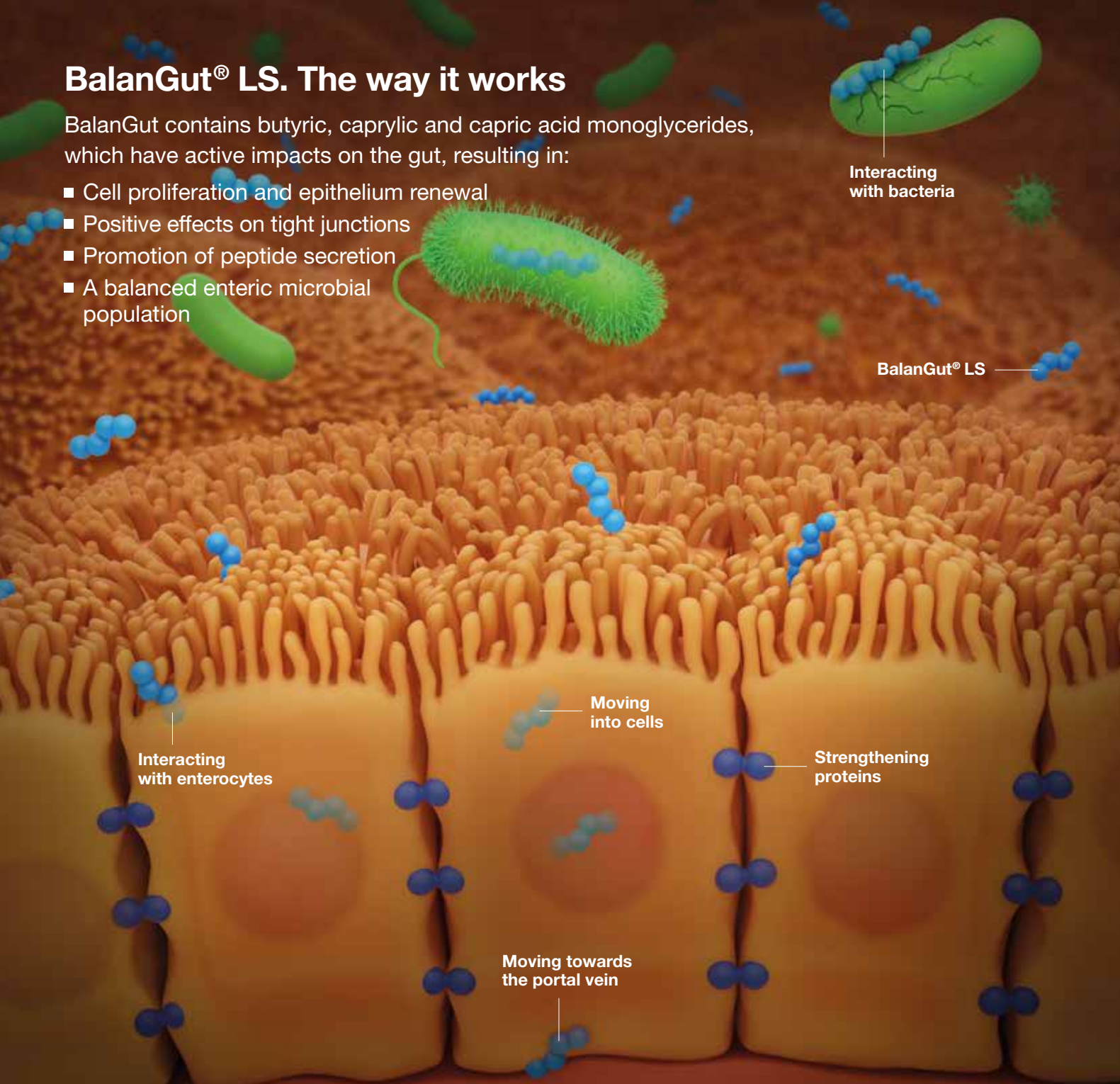
animal-nutrition.basf.com

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BalanGut® LS. The way it works

BalanGut contains butyric, caprylic and capric acid monoglycerides, which have active impacts on the gut, resulting in:

- Cell proliferation and epithelium renewal
- Positive effects on tight junctions
- Promotion of peptide secretion
- A balanced enteric microbial population



A healthy gut is the key to a healthy animal

Far more than being just a digestive organ, the gut is key to every aspect of animal health, wellbeing and performance. BalanGut® LS is proven to play a vital role in this, restoring gut integrity, supporting beneficial bacteria and the animal's own defense system. So it can help you create feed that delivers for the animals, your business and your customers, while meeting the demands of the market and consumers. Sustainable feed that succeeds.



Where it works



BalanGut® LS's main active ingredients of monoglycerides of butyric, caprylic and capric acids are delivered via feed and are active throughout the intestine.

Support intestinal health and animal wellbeing

The unique mixture of naturally occurring monoglycerides of short and medium chain fatty acids in BalanGut® LS supports:

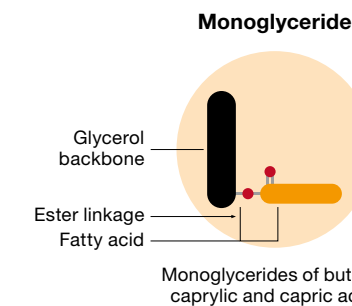
- Strengthening of intestinal health
- Intestinal resilience
- Improved livability
- Economic and ecological sustainability

BalanGut® LS is a sustainable solution that fosters gut balance and good health of the animal.

Extra protection and ease of handling

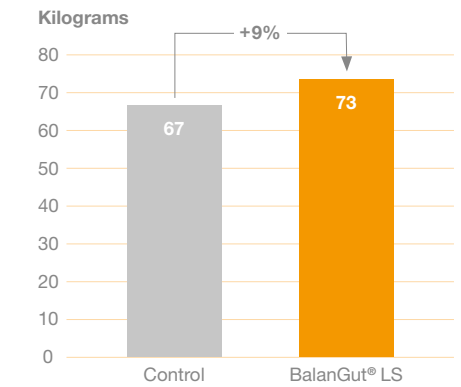
The presence of ester bonds ensures:

- Non-corrosivity
- Heat stability
- Non-volatility
- Non-pungent smell
- A pH-independent action in the gut

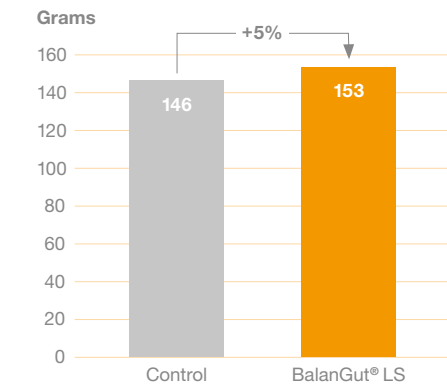


Results show BalanGut® LS's positive impacts on suckling piglets

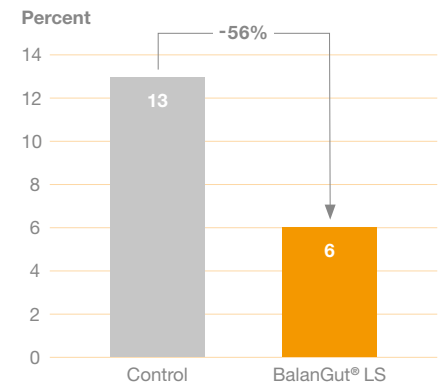
Litter weight gain (birth to weaning)



Daily feed intake (creep feed)/litter (day 8 to weaning)



Weaning losses (birth to weaning)

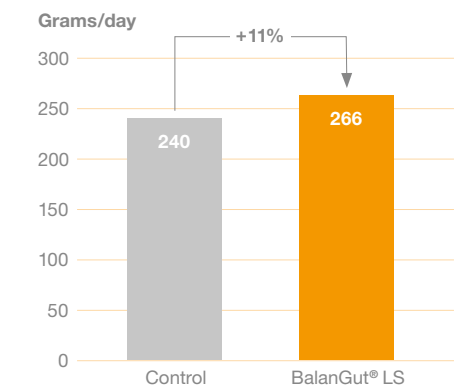


Trial 2a. Suckling piglets raised under commercial conditions in Denmark

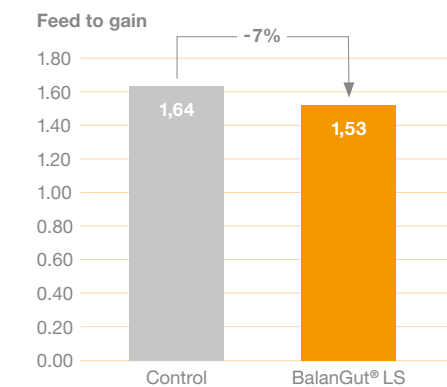
Suckling piglets raised under commercial conditions; control group was fed a standard diet with no antibiotics nor feed additives; the BalanGut® LS group was fed BalanGut® LS at 5kg/ton of creep feed.

Trials also indicate very positive impacts on weaned piglets

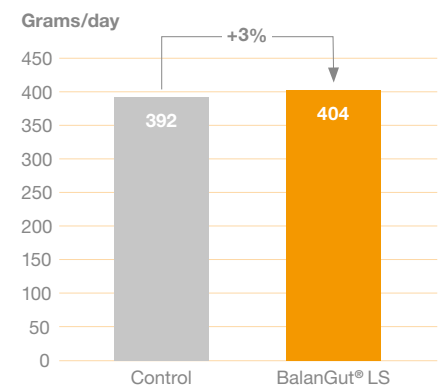
Body weight gain (d25 to d60 post weaning period)



FCR (d25 to d60 post weaning period)



Feed intake (d25 to d60 post weaning period)



Trial 2b. Weaned piglets (@day 25) raised under commercial conditions in Denmark

Weaned piglets at day 25 were raised under commercial conditions and divided in two groups: control group was fed a basal diet with no antibiotics and the BalanGut® LS group was fed BalanGut® LS at 3kg/ton of feed in the pre-starter diet and 1.5kg/ton in the starter diet.