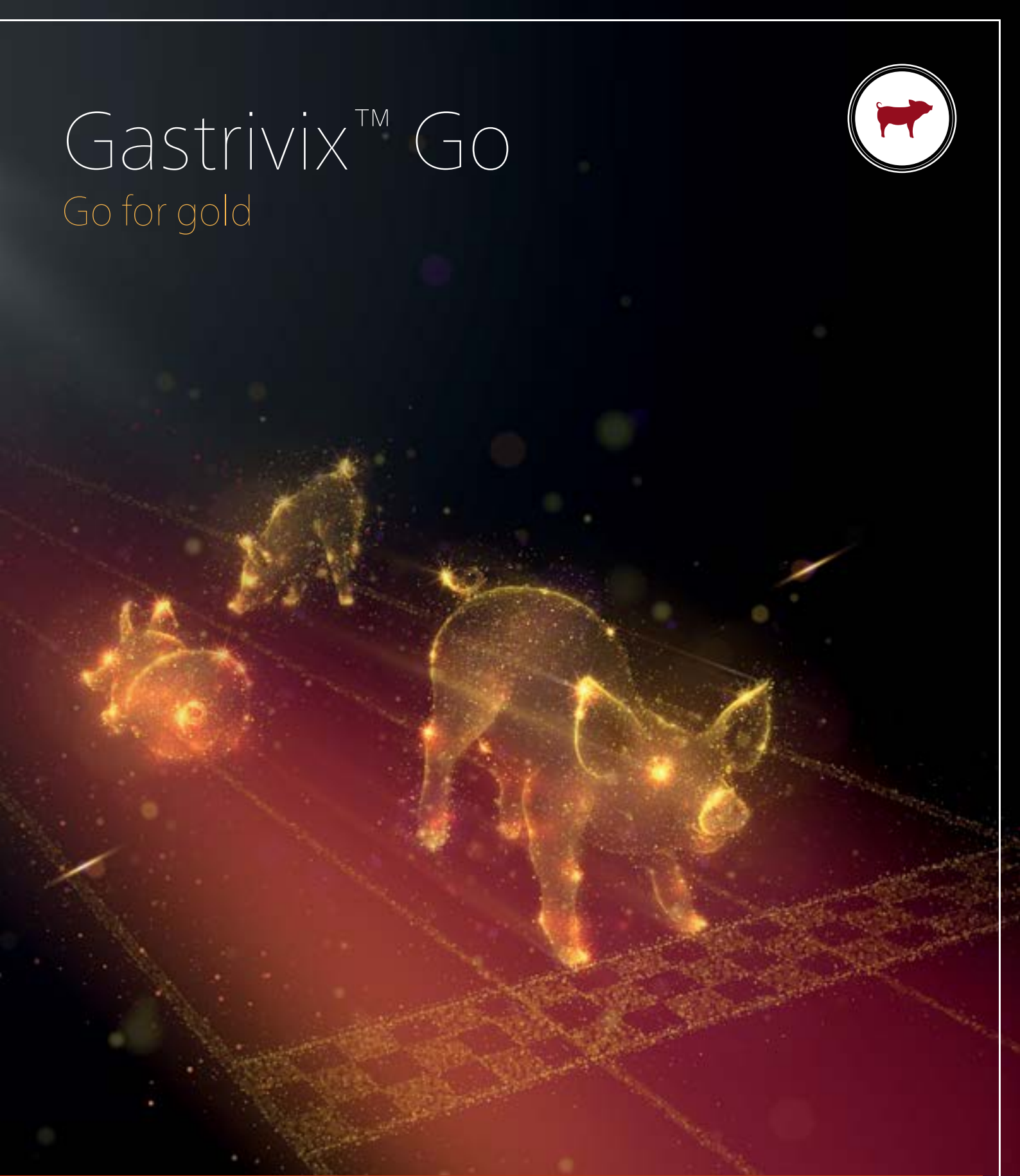


Gastrivix™ Go

Go for gold



Secure victory from the start with Gastrivix™ Go

- Supports piglets during challenges in the all-important weaning phase
- Improves Average Daily Gain from the first day after weaning
- Cost effectiveness because of low inclusion rates

Gastrivix Go: multi-powered piglet support

Weaning challenges are a common cause for underweight piglets, which can negatively impact profitability. Effectively addressing those can improve growth, uniformity, performance and hence revenue. With Gastrivix™ Go, producers can ensure a proper care and support for nursery pigs, supporting them to overcome obstacles and thrive also in later stages of life.

The scientific solution that tackles multiple challenges

Gastrivix™ Go features a unique combination of free and salt form acids, alongside a potent phytogetic compound and a novel combination of esters of organic acids. This carefully crafted blend provides robust defense against pathogens as well as sturdy and functional intestinal support.



The basics: mitigating pathogenic threats

Gastrivix™ Go is a precision-engineered blend, which integrates active ingredients such as formic acid and a powerful phytogetic compound, to enhance efficacy.

This carefully crafted blend can support a robust defense against gram-negative pathogens, including culprits like *E.coli* or *Salmonella ssp.*, throughout both the feed and upper gastrointestinal tract.

Formic acid and its salts are renowned for their proven antibacterial effects. Furthermore, the included phytogetic compound is a known quorum quencher that impedes the virulence of Gram-negative bacteria and interferes with the DNA and RNA synthesis in bacteria. The combination of these components provides optimal support in combating pathogens (table 1).

Gastrivix™ Go:
Three routes to piglet success



Free organic acids and salts of organic acids mitigate pathogens

Phytogetic compounds support against pathogenic virulence





Esters of organic acids support gut morphology and integrity



Key benefits

- Safe and secure – a good start benefits piglets for the rest of their lives
- Support ADG in the first weeks after weaning
- Effective to help mitigate pathogens
- Strengthen small intestine health
- Results at low inclusion rates - cost effective
- Contributes to production success

Table 1: Minimum inhibitory concentrations (mg/L) of organic acids and their derivatives on Gram-negative bacteria strains (Source: adapted from Kovanda et al., 2019). The combination of formic acid and sodium formate outperforms the individual free acid or salt alone, displaying superior inhibition of Gram-negative bacteria.

	Escherichia coli ATCC 259222	Escherichia coli F18	Salmonella enterica Typhimurium ATCC 14028	Salmonella enterica Typhimurium ID# 4286
Sodium formate	>20,000	>20,000	>20,000	>20,000
Formic acid + Sodium formate (as in Gastrivix™ Go)	2,000 (±0)	2,200 (±700)	2,200 (±700)	2,200 (±700)
Butyrate glycerides	15,000 (±0)	10,000 (±0)	11,700 (±2,400)	10,000 (±0)



The Plus: small intestine fitness and functionality

In addition to mentioned free and salt form acids and phytogetic compound, Gastrivix™ Go features a proprietary blend of esters of propionic and butyric acid. These acids, known for their beneficial effects on epithelial cells, are delivered in an esterified composition for targeted release in the small intestine. While these acids are naturally produced by the microbiota in the colon and cecum, their presence in the small intestine (where their impact is beneficial) is limited. This can be addressed by supplementation. This contributes to improved villi development, supports intestinal repair and facilitates intestinal health.



The cherry on top: the cost competitive solution

Gastrivix™ Go is a thoughtfully designed product combining different ingredients and technologies to support animals during challenging times. It is a cost-effective solution, designed to be effective at a low dosage of 1 kg per ton, allowing more flexibility for essential feed components. With Gastrivix™ Go you get unmatched effectiveness by addressing pathogens and promoting gut health in both the stomach and intestines at a reduced application cost.

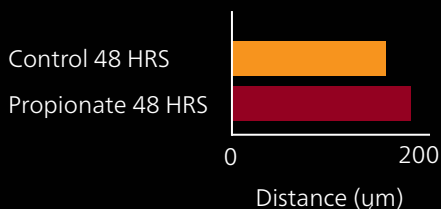


Figure 1: Propionate stimulates the intestinal epithelial cell migration (Source: Adapted from Bilotta et al., 2020). In this picture obtained from an in vivo trial, after propionate treatment, mice showed accelerated cell movement up the villi, indicating propionate's crucial role in regulating epithelial cell turnover for intestinal renewal and lesion recovery.

Table 2: Gut morphology in the Ileum of piglets with and without supplementation of esters of butyric acid and with or without challenge with LPS (lipopolysaccharides) (Source: adapted from Gu et al., 2017). Butyric supplementation tends to increase villi height in normal and LPS-challenged animals, showcasing a positive impact on gut health.

	Without TB		With TB		P-values		
	- LPS	+ LPS	- LPS	+ LPS	TB	LPS	TBxLPS
VH (µm)	216.25±10.67	209.44±9.16	237.46±18.10	238.86±12.03	0.065	0.837	0.754
CD (µm)	195.32±27.95	194.67±12.67	170.81±14.94	204.38±14.21	0.693	0.384	0.366
VH:CD ratio	1.21±0.15	1.10±0.09	1.46±0.09	1.19±0.08	0.248	0.183	0.579

Get the gut wealth feeling

When you have gut health completely under control, that's the feeling of gut wealth – only from Perstorp. It's knowing you have the right approach to gut health and that you're achieving it in the right way – with expert support, proven gut health solutions and responsible sourcing. Find out more about gut wealth at www.perstorp.com/gutwealth

For more information on Gastrivix™ Go, contact your sales manager or email animal.nutrition@perstorp.com