

PIGACID™



PIGACID™ : low-dose acidifying mix to stabilize the intestinal bacterial flora

PIGACID™ effectively prevents the ETEC pathogens after weaning

PIGACID™ effectively prevents the Clostridia negative action

PIG PERFORMANCE IMPROVER

PIGACID™

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PIGACID™ is a mix of low-dose acidifying designed to stabilize the bacterial thanks to modular release of components along the entire intestinal tract

PIGACID™ effectively prevents the action of ETEC pathogens after weaning



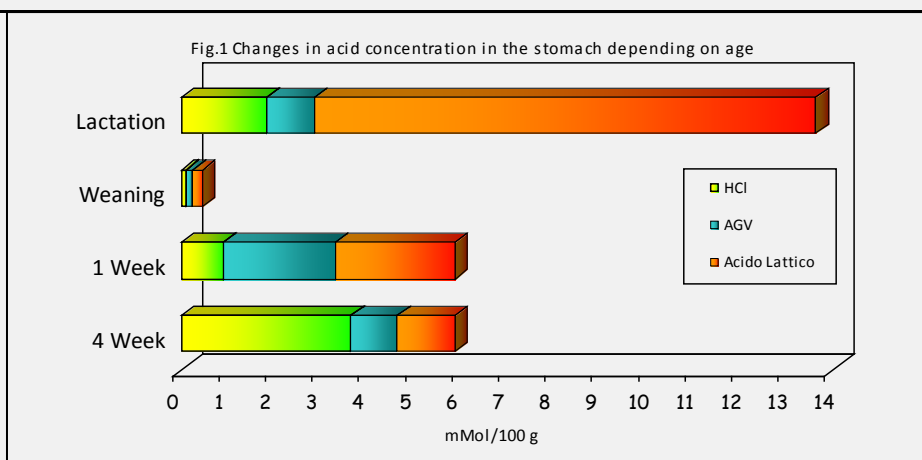
ECONOMIC DAMAGES CAUSED BY COLI DIARRRHEA

- HIGH MORTALITY ⇒ 5-25% ; HIGH MORBIDITY ⇒ 50-100%
- LOWER AVERAGE DAILY INCREASE ⇒ -20-40%
- PRODUCTION DAYS LOST ⇒ +8-15 DAYS
- REDUCED FEED CONSUMPTION ⇒ -20-50%
- WORST FEED CONVERSION ⇒ +20-40%
- PERMANENT DAMAGES TO INTESTINAL MUCOSA
- LOWER NUTRIENTS ABSORPTION
- INCREASE OF MEDICATED TREATMENT COSTS ⇒ +1-3 €/PIG

At weaning the digestive system of piglet is not fully developed and the production of hydrochloric acid may be insufficient (Fig.1): when the pH of stomach maintains levels higher than 4,0, the feed proteins are not totally erased and the indigestible part reaches the intestinal tract providing the “pabulum” ideal for toxigenic bacteria proliferation with diarrhea and/or oedema formation .

The main protagonist (although not the only one) of the phenomenon is the enterotoxigenic *Escherichia coli*, whose action is associated with the appearance of post weaning diarrhea (PMWD).

The disease occurs worldwide and it is one of the major causes of mortality of piglets after weaning.



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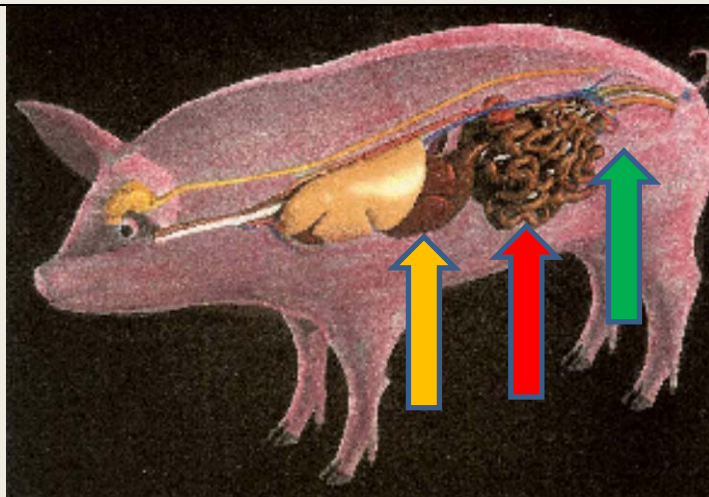
PIGACID™ MODE OF ACTION

PIGACID™ contains **Formic Acid (E236)*** and **Lactic Acid (E270)**** mixed with a technological additive that turns the product into gel.

PIGACID™ is able to pass the gastric barrier and to dissolve **slowly along the whole intestinal tract** also reaching the last intestinal portion where it develops a real action of selection of the bacterial flora with marked antidiarrheal action.

PIGACID™ maintains the integrity of the intestinal epithelium and the health and height of the villi.

PIGACID™ does not cause **ulcerations** in the oesophagus and stomach.

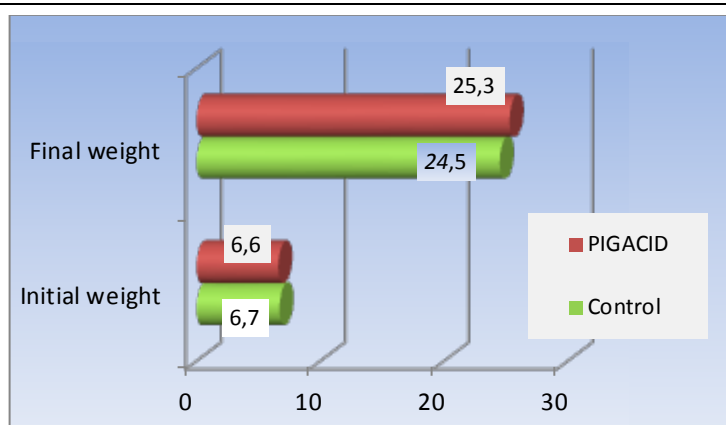


PIGACID™ acts along the entire intestinal tract

NUTRITIONAL AND METABOLIC EFFECTS OF THE MAIN COMPONENTS OF PIGACID™

Parameters	Formic Acid *	Lactic Acid **
Antibacterial effect (<i>Coli, Salmonella, Clostridi</i>)	+++	++
Antifungal effect	+	0
Energy intake	0	++
Effect on gastric pH	++++	++
Epithelial integrity	0	+++
Pancreatic secretion	0	++++
Preservative action on the feed	+++	+++

+++ very strong effect; ++ strong enough effect; + moderate effect; +/0 weak or minimal effect



PIGACID™: effectiveness of comparative growth with a generic acidifying on the market. Each group had 100 animals.

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When to use *PIGACID™*:

- ⇒ To prevent post-weaning diarrhea
- ⇒ In the passage among different quality feeds
- ⇒ In stress situation
- ⇒ In case of badly stored feeds
- ⇒ Mash badly preserved or still warm



PIGACID™ PRACTICAL ASPECTS OF USE

	Health Status	kg/ton/ water	Timing
Piglets post-weaning	<i>Prevention PWD</i>	3,0 kg	Entire period
12-20 kg	<i>Prevention of diarrhoea phenomena</i>	2,0 kg	Entire period
20-40 kg	<i>Prevention of diarrhoea phenomena</i>	2,0 kg	Entire period
Sows	<i>Prevention of diarrhoea phenomena</i> <i>Prevention of Clostridiosis phenomena</i>	1,0 kg	5-10 days
Fattening Pigs	<i>Malabsorption</i> <i>Badly stored Feed (ex. Mash)</i> <i>Prevention of Clostridiosis phenomena</i>	1,5 kg	5-10 days

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COMPLEMENTARY FEED FOR ALL SPECIES

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