

ZINKING™



ZINKING is a new form of protected **Zinc oxide** stabilizing intestinal microflora

ZINKING™ prevents effectively the enterotoxigenic pathogens after the weaning

IMPROVING GUT HEALTH WITH

ZINKING™

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IMPROVING HEALTH PERFORMANCE WITH **ZINKING™**

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ECONOMIC DAMAGES OF COLI DIARRHOEA

- HIGH **MORTALITY** ⇨ 5-25%
- HIGH **MORBILITY** ⇨ 50-100%
- LESS AVERAGE DAILY **GROWTH** ⇨ -20-40%
- PRODUCTION **LOSS DAYS** ⇨ +8-15 GG
- FEED CONSUMPTION **REDUCTION** ⇨ -20-50%
- FEED CONVERSION **REDUCED** ⇨ +20-40%
- INTESTINAL MUCOSA PERMANENT **DAMAGES**
 - LESS ABSORPTION** OF NUTRIENTS
 - AMINOACID **DEFICIENCY**
- DRUGS COST** INCREASED ⇨ +1-3 €/pig

NUTRITIONAL EFFECTS OF DIFFERENT SOURCES OF ZINC

	BENEFITS	ADVANTAGES	PROBLEMS
ZINKING™	<ul style="list-style-type: none">-Reduction E.coli activity-Immune enhancer-Supply Zinc	<ul style="list-style-type: none">Effective for diarrheaBypass in stomachLow dosage eco-friendly	-
ZnO 3.000 ppm	<ul style="list-style-type: none">-Reduction E.coli activity-Allergy reduction-Immune enhancer-Supply Zinc	<ul style="list-style-type: none">Effective for diarrhea	<ul style="list-style-type: none">Veterinarian prescriptionEnvironmental pollutionFeed palatability reducedEsophageal and stomach ulcersHepatotoxic effect
Organic Zinc	<ul style="list-style-type: none">-Supply Zinc-Immune enhancer	<ul style="list-style-type: none">Good absorption rateVery low dosage	<ul style="list-style-type: none">No effects on diarrhea

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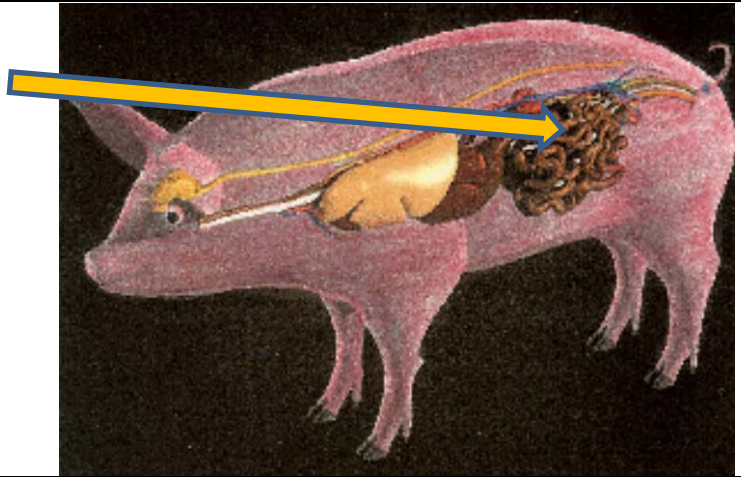
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ZINKING™ way of action

ZINKING™ contains **Zinc oxide** protected by a lipidic and oligosaccharide matrix (able to pass through the gastric barrier) which gets soluble in the first intestinal tract thanks to pH change and pancreatic enzymes .

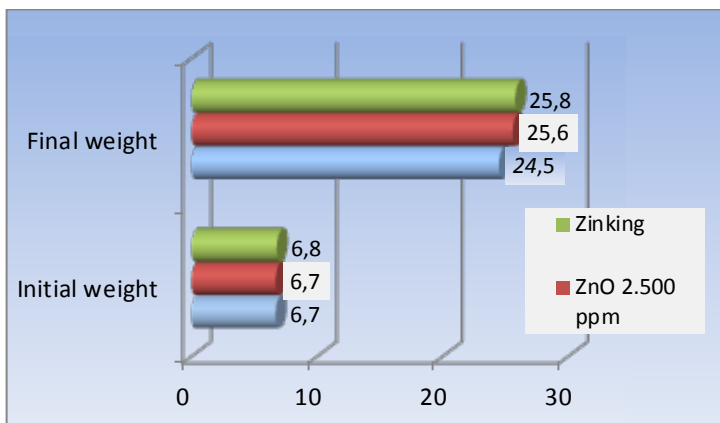
ZINKING™ reach directly the last tract of intestine where develop an effective selection on the pathogenic bacteria reducing diarrhoea problems.

ZINKING™ mantains the gut epithelium integrity and the health of villus.



Evaluation of CFU of *E. coli* in solutions containing 150 ppm of Zinc in the intestinal fluid at time 0, and after 3 hours of incubation. The treatments included incubation with previous or reconstituted porcine gastric juice (pH3) or HCl (pH3). Data from UNIVERSITY OF MILAN, Department of Veterinary Science and Technology 2011

ZINKING	ppm Zn	UFC T-0H	UFC T-3H
Gastric juice pH3	150	7,6E+07	1,44E+08
HCl pH3	150	6,78E+07	1,27E+08



ZINKING™ growth efficiency compared to 2.500 ppm of ZnO (medicated quantity) and 150 ppm (maximum EU level). Each group was 100 animals

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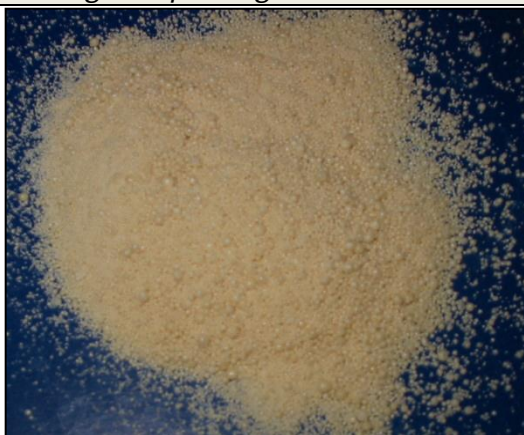
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When utilize **ZINKING™**:

- ⇒ To prevent *post weaning diarrhoea*
- ⇒ After feed chagement quality
- ⇒ During stress situation
- ⇒ To improve immunity status



** Any change of color of the product does not affect the quality

ZINKING™ Practical aspects

	Health state	kg/ton	Timing
Piglets after weaning	<i>PWD prevention</i>	1,0 kg	All the period
12-20 kg	<i>Diarrhoea prevention</i>	1,0 kg	All the period
20-40 kg	<i>Diarrhoea prevention</i>	1,0 kg	All the period
Sows	<i>Diarrhoea prevention</i>	0,5-1,0 kg	5-10 days.

ZINKING™

Premix for pigs

Additives per kg

Trace-elements:

3b603 Zinc (Zinc Oxide) 150.000 mg

Carriers :

Vegetable soaps from mono and diglycerides fatty acids .

Optimal dosages for ton of feed

Pigs: 0,5-1,0 kg

