



PIGS

KNOWLEDGE PARTNER IN NUTRITION AND HEALTH

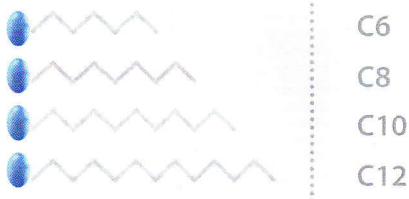
# **aromabiotic**

healthy feed for healthy food



## Aromabiotic® for pigs

Carefully balanced mixture of Medium Chain Fatty Acids (MCFA) with unique antimicrobial, physiological and immunological properties.



## Aromabiotic® MCFA, acids with added value

### 1 Highly antimicrobial

Cell membrane permeabilisation and destabilisation together with cell content acidification and DNA intercalation result in high antimicrobial activities of Aromabiotic MCFA. This results in a stabilising effect on the gut flora.

### 2 Improving intestinal morphology

By improving villi/crypt ratios Aromabiotic MCFA result in a better intestinal morphology increasing nutrient absorption.

### 3 Reducing pathogen virulence

Aromabiotic MCFA reduce virulence through their anti-invasive effect on pathogens like *Salmonella* and their inhibitory effect on microbial lipases (needed for pathogen attachment).

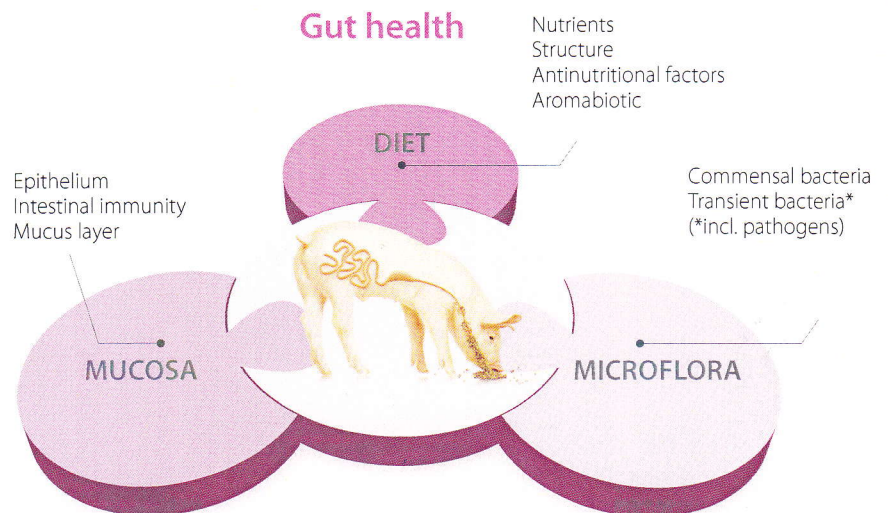
### 4 Improving immunity

Through a beneficial effect on neutrophil quality Aromabiotic MCFA improve immunity.

## Critical periods in a pig's life

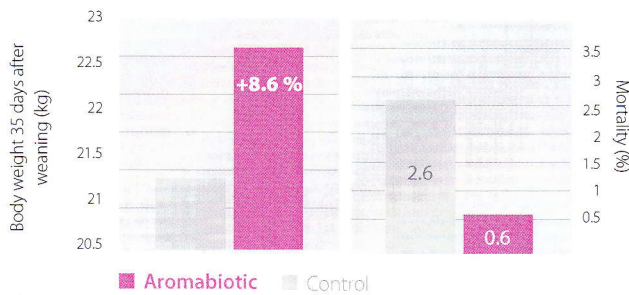
At different stages of life, a pig is stressed by external factors. Weaning is probably the most critical period in the pig's life. The process of being separated from the sow is extremely stressful for the piglet. Moreover a new hierarchy should be established and the feed structure and composition change considerably. Also at later stages, in grower and finisher pigs, the intestinal health is stressed by relocation and feed changes.

Gut health is influenced by three major factors being continuously in interaction with each other. By supplementing Aromabiotic to the diet the microflora and mucosa are influenced in a positive way, resulting in improved health and zootechnical performances.



## Trials with Aromabiotic®

### Less problems at weaning



At weaning the passive immunity of the sow's milk disappears at a time where the active immune system is not yet fully developed. The changes in feed composition/structure demand a fast change in both the intestinal flora and the intestinal morphology.

*Aromabiotic supports the piglet around weaning resulting in a lower mortality and a higher body weight at the end of the post weaning period. This forms an excellent starting position for the grower period.*

### Better general health status

Necessary treatments	Negative control	Positive control Avilamycine	Aromabiotic
Digestive disorders	5	0	1
Streptococcae-infection	7	2	1
Pulmonary disorders	7	7	0

Source: Livestock Research, Sterksel, 2002



*The direct effect of Aromabiotic on the pig's gut health results in a large reduction of digestive disorders. Also non-digestive disorders are inhibited significantly because of a better immune status of the animals.*

### Improved zootechnical performances



Feed changes and transportation stress at the onset of the growing phase can result in a reduced feed intake and diarrhoea. A delayed growth and the subsequent loss of uniformity clearly negatively effects the results of the fattening pigs. Moreover, the increased feed intake capacity during fattening can cause a destabilization of the intestinal flora.

*With the support of Aromabiotic, grower and finisher pigs show an improved daily growth and feed conversion ratio. Energy is efficiently being converted into meat.*

- **Dosage:** Although the dose can be farm specific, the following inclusion rates are advised:

Aromabiotic (kg/Mton)	
Weaning feed *	2.0
Starter-phase (10 - 20 kg) *	2.0
Grower phase (20 - 50 kg)	1.0
Finisher phase (50 kg - slaughter)	0.5
Gestating and lactating sows	1.0

Aromabiotic Liquid (kg/Mton)	
	1.0
	1.0
	0.5
	0.25
	0.5

Extensive research at Nuscience showed that for optimal performances of young piglets, it is advised that Aromabiotic is combined with pH reducing acids.

- **Packaging:** Aromabiotic: bags of 25 kg.  
Aromabiotic liquid: 900 kg IBC.
- **Storage:** Store cool and dry.



The starting point for rearing healthy, productive animals is **safe nutrition**.

Active in over 60 countries worldwide, we produce premixes, concentrates, nutritional concepts and functional feed ingredients for the animal feed industry.

We strive to constantly innovate, and at the heart of our unique ingredients are our ongoing research, development and testing programmes. We are widely acknowledged as the industry's benchmark for increasing yields and reducing disease naturally.

Through our worldwide reach, constant innovation, thorough testing and proven results, we are proud to say that, today and tomorrow, Nuscience will remain your knowledge partner in nutrition and health.



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