

# Aromabiotic®

Sector Pigs / MCFA, the original





# Aromabiotic®

*During the lifetime of the modern pig several crucial phases are tackled which often result in physiological stress, impaired health and decreased production. Instead of relying on medicines Nuscience offers alternative solutions based on natural ingredients.*

## Acids with added value

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

### 1. Highly antimicrobial

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

### 2. Improving intestinal morphology

By improving villi/crypt ratios

Aromabiotic® results in a better intestinal morphology increasing nutrient absorption.

### 3. Reducing pathogen virulence

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

### 4. Improving immunity

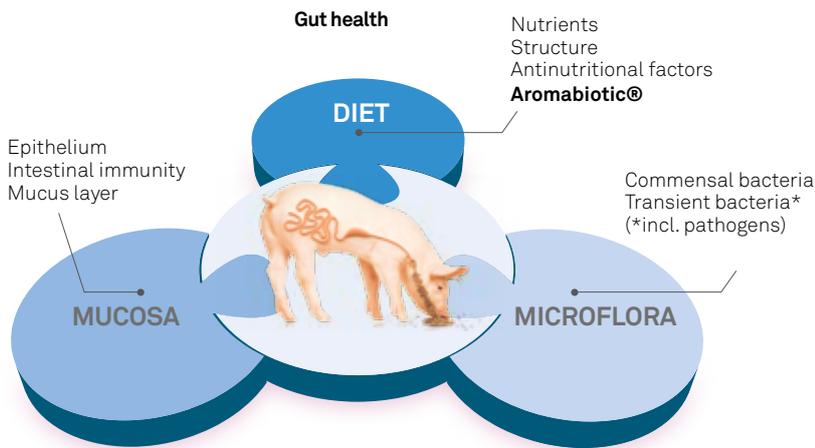
Through a beneficial effect on neutrophil quality Aromabiotic® MCFA improve immunity.

## Critical periods in a pig's life

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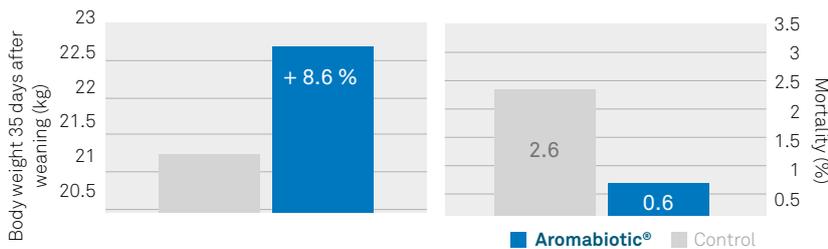
At different stages of life, a pig is stressed by external factors. Weaning is probably the most critical period in the pig's life. The process of being separated from the sow is extremely stressful. Moreover a new hierarchy should be established and the feed structure and composition change considerably. 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

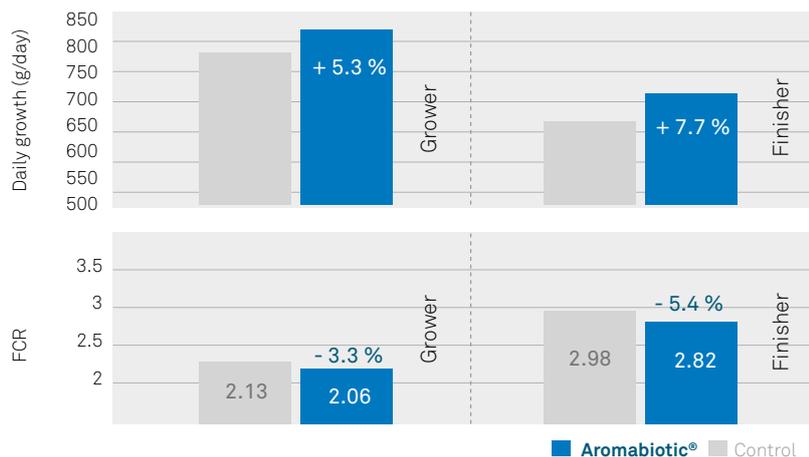


### Better general health status

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

### Improved zootechnical performances



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.

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.

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 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.



# Specially developed for pigs

## > Dosage

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

## > Storage

Store cool and dry.

	Aromabiotic (kg/Mton)	Aromabiotic Liquid (kg/Mton)
Weaning feed*	2.0	1.0
Starter-phase (10-20kg)*	2.0	1.0
Grower phase (20-50kg)	1.0	0.5
Finisher phase (50kg -slaughter)	0.5	0.25
Gestating and lactating sows	1.0	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.

Claims associated with products may be different based on government requirements. Certain statements may also not be applicable in all regions.

### More information

Go to [www.agrifirm.com](http://www.agrifirm.com), call to T +32 (0)9 280 29 00 or contact your advisor.