Specially developed for dairy cattle

- **Dosage**
  Although the dose can be farm specific, the following inclusion rate is advised: 40 g/cow/day.
- **Packaging**
  25 kg bags.
- **Storage**
  Store cool and dry.

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

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

Active in over 80 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.

Visit us at www.nusciencegroup.com

CATTLE

KNOWLEDGE PARTNER IN NUTRITION AND HEALTH

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health4U by nuscience | nutrition4U by nuscience

aromabiotic® cattle

MCFA the original

Genetic selection has resulted in dairy becoming super-production animals which undergo tremendous physiological stress and become susceptible to metabolic problems. Instead of relying on medicines Nuscience offers alternative solutions based on natural ingredients.

nuscience
safe & innovative nutrition

Aromabiotic® Cattle

Producing large amounts of high quality milk puts pressure on the modern dairy cow. In one lactation a cow can produce 10 to 20 times the amount of milk required to rear a calf.

This performance can deplete the cow due to physiological stress and metabolic problems.

Supplementation with **Aromabiotic Cattle**, being a carefully balanced mixture of Medium Chain Fatty Acids (MCFA), supports the dairy cow by improving the rumen fermentation and the immune status.

Aromabiotic® Cattle supporting the rumen

In-vitro and *in-vivo* tests with fistulated cows show that **Aromabiotic Cattle** influence the rumen microflora whereby protozoa and methanogens seem to be most susceptible favouring the beneficial bacterial population. As a result the rumen fermentation is influenced in a positive way.

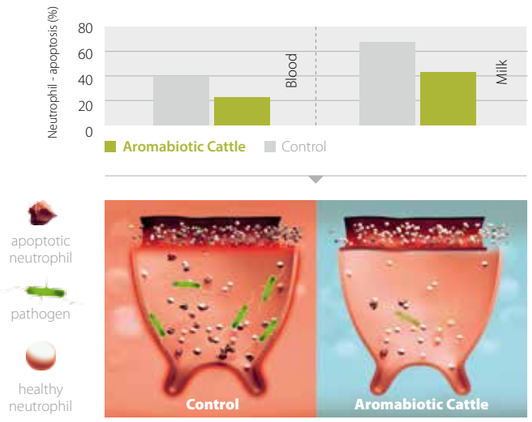
(Source: Ghent University, 2005 & ILVO, Melle, 2006)

Aromabiotic® Cattle improving immunity

Neutrophilic leukocytes (neutrophils) are short living white blood cells present in blood and tissues, forming an essential part of the primary immune response.

Supplementation of **Aromabiotic Cattle** increases the viability (= 'strength') of these neutrophils. This was investigated by determining the percentage of apoptotic neutrophils in blood and milk (apoptosis = programmed cell death). A lower level of apoptosis results in a higher overall viability of the neutrophils which in its turn means an improved immune status.

A lower percentage of neutrophil apoptosis* results in a better immune status.



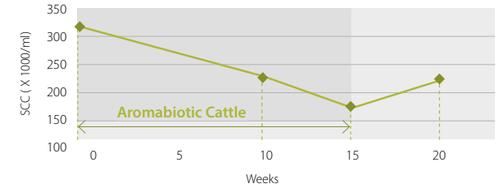
*(programmed cell death)

Source: Ghent University, 2010

A healthy udder: reducing somatic cell count

Mastitis is the most common and most costly disease in dairy cattle. Unlike clinical mastitis, the subclinical form, characterized by an increased somatic cell count, often stays unnoticed. Nevertheless, the costs involved due to production losses are not to be underestimated.

Subclinical mastitis and the subsequent costs are minimized by using **Aromabiotic Cattle** in the feed. An improved immune status of the dairy cows results in a lower somatic cell count (SCC) of the herd.

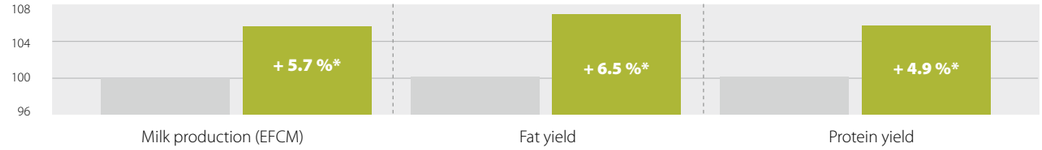


Clinical mastitis

Also for clinical mastitis the greatest loss is caused by reduced milk yields. Additional losses are associated with treatments, discarded milk and premature culling.

Next to the high costs involved, clinical mastitis also brings a lot of extra labour and worries for the farmer.

Increasing milk production



Source: CRA-W Gembloux, 2010

*Significant difference

As the farmer himself exerts no influence on the milk price, he can only increase his profits by producing more efficiently. By supporting the rumen fermentation **Aromabiotic Cattle** results in a better feed efficiency. A higher milk production (+ 1.5 kg) while maintaining milk quality (no dilution) guarantees more profit!

Additional features

- better general health status
- reduced use of antibiotics/lower veterinary costs
- lower risk on rumen acidosis due to a higher ruminal pH
- lower methane emission
- improved TMR conservation
- less problems with automatic milking systems