



# nucid forte

Gut Health & Performance Solutions



nuevo

# Organic acids

Organic acids are an effective means to support gastrointestinal functionality, prevent growth of pathogens and reduce the use of antibiotics. Their action is related to reducing the pH of the intestinal digesta and affecting the gut ecosystem in numerous ways. Intestinal microbiota can be altered as a result of the remarkable antibacterial activity of organic acids and the growth enhancement of non-pathogenic beneficial microorganisms, due to exclusive competition. Antibacterial activity has been widely reported for many poultry pathogens, such as *Salmonella* spp., *Escherichia coli*, *Clostridium perfringens*, *Campylobacter* spp., both in vitro and in vivo. Apart from the microbiota, diet supplementation of organic acids has trophic effects on the intestinal mucosa, modifying the morphologic characteristics of intestinal villi and crypts and maintaining epithelial integrity.

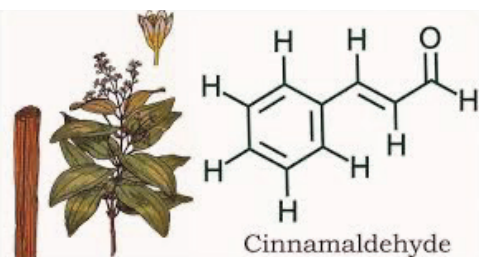
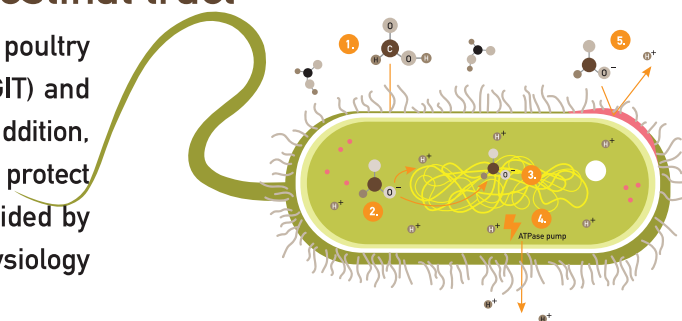


## The role of acidifiers in livestock nutrition & health

An important objective of the inclusion of organic acids in diets is the inhibition of intestinal bacteria which compete with the host for available nutrients, and the reduction of possible toxic bacterial metabolites. As a result, nutrient digestibility is improved, specific and non-specific immunity is enhanced and performance is better. Short-chain fatty acids, medium-chain fatty acids and other organic acids have well-known antimicrobial activity, depending on both the concentration of the acid and the bacterial species that are exposed to the acid.

## Influence of organic acids on gastrointestinal tract

Organic acids have demonstrated the capability to enhance poultry performance by altering the pH of the gastrointestinal tract (GIT) and consequently changing the composition of the microbiome. In addition, organic acids, by altering the composition of the microbiome, protect poultry from pH-sensitive pathogens. Protection is further provided by the ability of organic acids to enhance the morphology and physiology of the GIT and the function of immune system.



## Effect of cinnamaldehyde on GIT

Cinnamaldehyde is known for its widespread beneficial effects, supporting gastrointestinal health by affecting the microbial population in the gut. Cinnamaldehyde stimulates the excretion of digestive fluids, thereby having a positive influence on digestion. It is highly potent against *E. coli*, *Staphylococcus*, *Salmonella* and *Clostridium*.

**nucid** forte

- Promotes gut health
- Reduces the pH in feed and in animals
- Controls bacteria such as *Salmonella* spp. and *E. coli*
- Promotes the amino acids digestibility and absorption of minerals
- Promotes the growth of good bacteria such as *Lactobacillus*
- Improves animals' growth performance
- Effective at high and low pH levels
- Low corrosive

Ingredients: Blend of organic acids, salts of organic acids & cinnamaldehyde

Dosage: 0,5 – 2 kg / 1000 kg of finished feed