

Quadra NEWS



Olacid⁺dry

**FEED ACIDIFIER WITH THE
GOODNESS OF ESSENTIAL OIL**

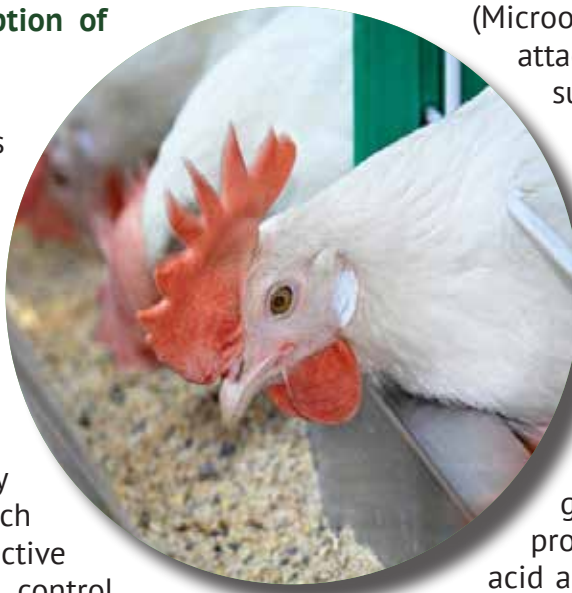


POTENTIATED
WITH
LEMONGRASS OIL

OLACID PLUS DRY IDEAL FEED ACIDIFIER

Feed additives have several beneficial effects on the control of pathogenic micro-organisms and enhance the growth of beneficial micro-organisms. The health of the gut is one of the major factors governing the performance of birds and thus, the economics of poultry production. Dietary organic acids and their salts can inhibit microbial growth in food and consequently preserve the microbial balance in the gastrointestinal tract. In addition, by modifying intestinal pH, organic acids also improve the solubility of the feed ingredients, digestion and absorption of the nutrients.

Now-a-days Cereals and cereal by-products in poultry feed tend to have alkaline pH, low buffering capacity and also a site for microbial growth. Organic acids reduce the buffering capacity of the diet, which is critical to effective enzyme activity and control of microbial proliferation. Organic acids reduce or eliminate micro-organisms in animal feed, including disease causing pathogenic bacteria such as Salmonella and E.coli and internally optimize the pH of the GUT so that animals can efficiently control gut pathogens in the GIT. Optimization of gut pH also favours the growth of gut-friendly microorganisms. Thus,



the process of competitive exclusion of pathogenic organisms prevails in the GIT. Protection of the gut and health of the gut is one of the major factors governing the performance of birds and thus, the economics of poultry production (Samik et al., 2007). Lemongrass oil in **Olacid⁺dry** increases the permeability of cell membrane allowing organic acids to diffuse easily into the bacterial cytoplasm. Thus, Synergy of the Organic acids and Essential oil (**Lemongrass oil**) in **OLACID PLUS DRY** prove as an effective combination. Apart from the synergism essential oil also destroys the biofilm (Microorganisms irreversibly attach to and grow on a surface) formation.

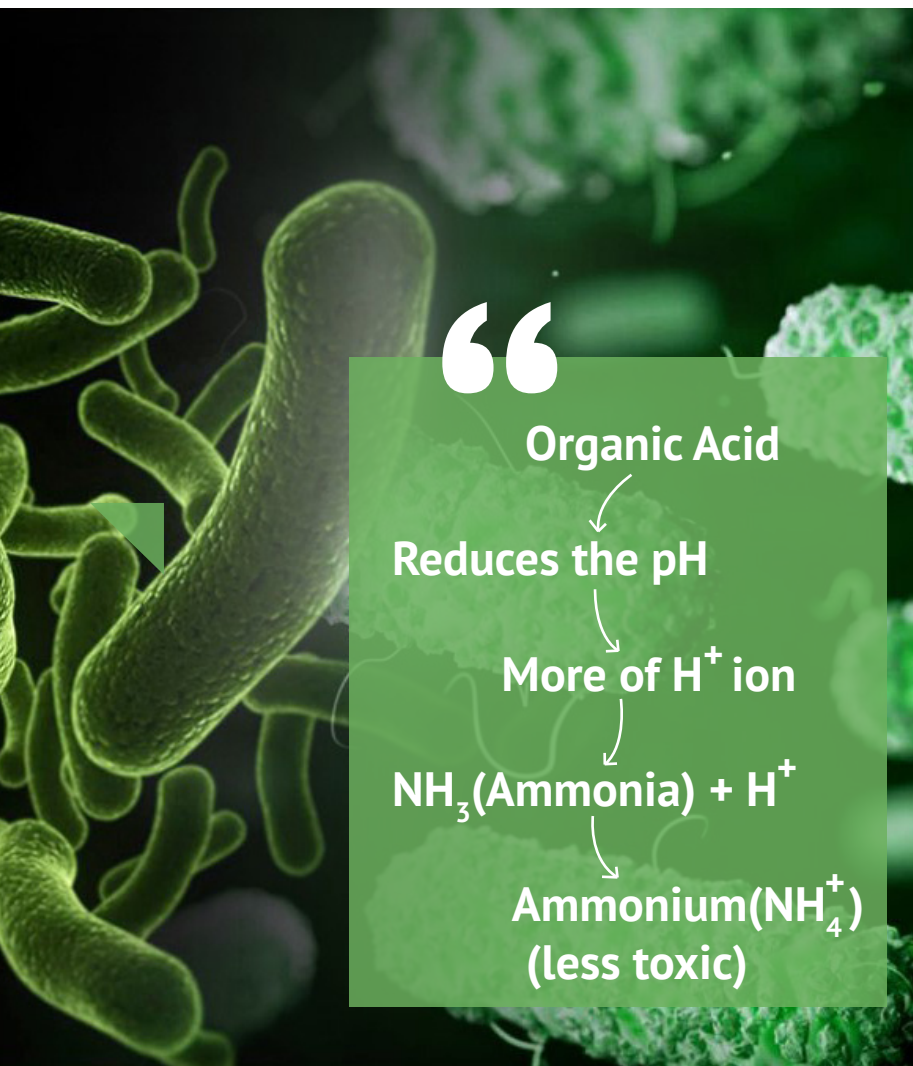
Formic acid is one of the most preferred acids that has antibacterial effects and is used to preserve and acidify feeds. Due to its high pKa value reduces the pH of the feed and gut. It also reduces the proliferation of butyric acid and ammonia-producing bacteria and enhances the growth of useful lactic acid-producing bacteria. The MIC for formic acid against these pathogens lies in the range of 0.1 to 0.2 per cent, i.e. the lowest dose of the acid at which bacterial growth is prevented. Among the acidifiers, **OLACID PLUS DRY** has the different acids which are high in pKa value and acts as the strongest bactericidal and bacteriostatic agent in poultry and swine production





BENEFITS

- **Reduces pH** of the feed & gut
- **Essential oil (Lemongrass oil)**
 - Potentiates **the organic acid activity**
 - Destroys the **cell wall of bacteria**
 - Destroys the **fungal biofilm**
 - Has **anti-helminthic** activity
- **Enhances digestive process**
- **Thermostable** and **Safe** at pelleting temperature



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Organic Acid

Reduces the pH

More of H⁺ ion

NH₃(Ammonia) + H⁺

Ammonium(NH₄⁺)
(less toxic)

COMPOSITION

- **Buffered organic acids**
- **Acetic acid**
- **Citric acid**
- **Formic acid**
- **Phosphoric acid**
- **Enhanced with Lemongrass oil**

INDICATIONS

- For lowering the pathogen load in the feed & gut
- Reduces incidence of Salmonella & E.coli
- For improving digestibility & assimilation of nutrients
- For improvement of feed conversion & better productivity

USAGE

Broiler
 Breeder
 Layer

1 Kg / ton of feed

or, as directed by the Veterinarian

PACKING

25 Kg Bag



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