

**MULTI-ACIDS + IMMUNOSTIMULANT + PROBIOTIC + PREBIOTIC  
PERFORMANCE ENHANCER**

PROTECTED AND SLOW-RELEASE

## EUROCID COMPONENTS:

### MULTI-ACIDS

CITRIC, FUMARIC, MALIC, LACTIC, PHOSPHORIC

### IMMUNOSTIMULANT

MANNAN OLIGO-SACCHARIDES

### PROBIOTIC

SACCHAROMYCES CERIVISIAE

### PREBIOTIC

MICRO-CATALYST (INULIN)

Eurocid contains **Organic and Inorganic** acids.

Inorganic acids is hard to neutralize by alkaline in the GIT. Organic acids, on the other hand has bacteriostatic and bactericidal effects. Undissociated organic acids are lipophilic, they can cross the cell membrane of the Gram-Negative bacteria, such as Salmonella. Once inside the cell, the higher cytosolic pH causes the acid to dissociate, releasing hydrogen ions, which consequently reduces the intracellular pH. Microbial metabolism is dependent on enzyme activity, which is depressed at lower pH. To redress the balance, the cell is forced to use energy to expel protons out across the membrane via H<sup>+</sup> ATPase pump to restore the cytoplasmic pH to normal killing the bacterial cell.

Expelling protons also leads to accumulation of acid anions in the bacterial cell, which inhibits intracellular metabolic reactions, including the synthesis of the macro molecules, and disrupts the internal membranes.

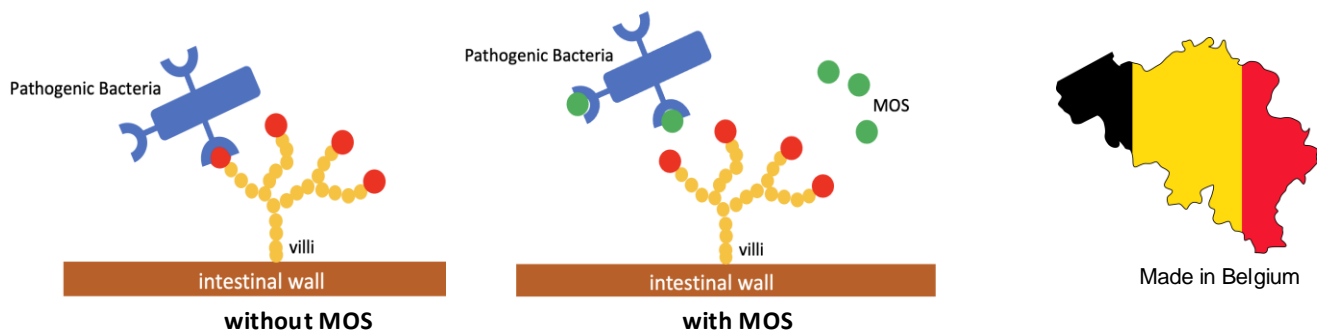
Lactic acid bacteria are less sensitive to the pH differential across the cell membrane, and thus remain unaffected. Inhibition of microbial growth by this mode of action has been used for thousand of years in food preservation.

Eurocid is fortified with **Micro-Catalyst** - a new generation Prebiotic.

A complex carbohydrate polymer that catalyze the growth of beneficial microflora of the host animals. When added to animal feed, is not digested by intestinal enzymes, but in fact is a substrate for the growth of beneficial bacteria. It helps the lactic acid bacteria grow and multiply in the GIT: Lactobacillus, Leuconostoc, Pediococcus, Streptococcus, Aerococcus, Carnobacterium, Enterococcus, Tetragenococcus, Vagococcus, Weissella, Sporolactobacillus, Bifidobacterium

Lactic acid bacteria out-competes and suppresses the proliferation of Gram-negative bacteria such as E. coli, Salmonella and Clostridium perfringens. Pathogenic bacteria cannot utilize the Micro-Catalyst, cannot multiply and are starved to death. Increase in number of beneficial bacteria leads to increase in production of lactic acid and synthesis of amino-acids, vitamins and other nutrients.

Eurocid contains **MOS** that prevents attachment of pathogenic bacteria on intestinal wall.



Eurocid improves **performance** of your livestock and poultry.

Eurocid improves production performance of your animals. It results to better ADG and FCR for broilers and fattening pigs. Increase egg production and improves egg sizes in layers. Lesser use of antibiotics due to its immuno-stimulating effect.

Eurocid	Inclusion Rate
Broiler	0.5 to 2.5 kg per ton of feeds
Layer	0.5 to 2.5 kg per ton of feeds
Swine	0.5 to 2.5 kg per ton of feeds

**Packaging:**  
25-kg multi-wall kraft bag

