



Maximum  
protection



# Labiana® Lyso Plus

Water-soluble powder



## Protects against respiratory diseases

- ✓ Increases immunity
- ✓ Pathogen-inhibiting effects: *staphylococcus*, *streptococcus* and *coli*
- ✓ Improves intestinal flora after its long-term use
- ✓ Advisable in cases of flu and respiratory diseases

## Contains lysozyme of egg albumin

- ✓ High content in albumin with lysozymes that prevent diseases in poultry
- ✓ With synergistic effects with antibiotics, improving their function

## Promotes growth

- ✓ Promotes the conversion ratio
- ✓ Improves digestibility and absorption
- ✓ Promotes prebiotic balance, increasing the food intake

**LABIANA**  
*always works*



## Lysozyme acts as a barrier against infections

### The lysozyme

It is abundant in many organic secretions such as saliva, tears and mucus, where it fulfills its **protective function**. It is also present in the granules of polymorphonuclear neutrophils.

It is also very abundant in **egg white**, from which it is extracted for pharmaceutical use. The FAO recognizes the lysozyme of the egg's white as a non-toxic protein that can be used for therapeutic purposes.

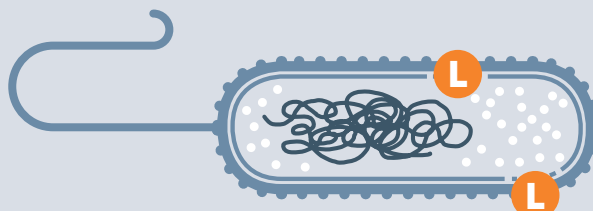
Lysozyme binds to the peptidoglycans of the surface of the Gram+ bacteria, reducing the negative charge and facilitating the phagocytosis of the germs. In other words, it acts like an opsonin before the opsonins arrive (generally antibodies) from the immune system.

Another result of the union of lysozyme to the bacteria is the breakage of the peptidoglycan and the penetration of water in the bacteria, which swells and finally bursts.

Gram+ bacteria are more sensitive to the lysozyme because their bacterial walls have 90% peptidoglycans.

### Lysozyme causes bacterial lysis

Lysozyme is an enzyme that breaks the cell walls of bacteria.



### Lysozyme acts like an opsonin

Lysozyme marks the pathogens for their ingestion and destruction by the phagocytes. The opsonisation involves the union of an opsonin to a receptor in a cell membrane of the pathogen. After the union of the opsonin to the membrane, the phagocytes are attracted to the pathogen.



## COMPOSITION PER KG

Albumin.....	50 g
<i>Vitamins, provitamins and chemically well-defined substances with similar effect:</i>	
Vitamin E / all-rac- $\alpha$ -tocopheryl acetate (3a700) .....	25 g
<i>Trace elements:</i>	
Zinc / Zinc sulphate heptahydrate (E6) .....	113.7 mg

## INDICATIONS

Labiana® Lyso Plus contains lysozymes found in egg albumin that prevents diseases in animals:

- It improves tissue repair and increases immunity.
- It has inhibitory effects in pathogens such as *Staphylococcus aureus*, *Streptococcus* spp. and *Escherichia coli*.
- It is advisable in case of flu and respiratory diseases.
- It has a synergic effect with antibiotics, which can improve its function.
- It improves the intestinal flora after long-term use.
- It promotes prebiotic balance of breeding, increasing food intake.
- Improves digestibility and absorption.
- It increases animal growth rate and FCR.

## DOSAGE AND ADMINISTRATION ROUTE

Water soluble powder for oral administration in drinking water.

1st week: 20 g Labiana® Lyso Plus/1000 animals.

2nd week: 35 g Labiana® Lyso Plus/1000 animals.

3rd week: 70 g Labiana® Lyso Plus/1000 animals.

## USE DURING OVIPOSITION

Can be used during oviposition.

## SPECIAL PRECAUTIONS FOR STORAGE

Store in a cool and dry place, below 25 °C, protected from light.

Shelf life: 2 years stored in its original closed container.

## PRESENTATION

100 g sachet.

1 kg bag.

$\alpha$ ESP-08100341