New

LEAD THE CHANGE



Premix

Water Soluble

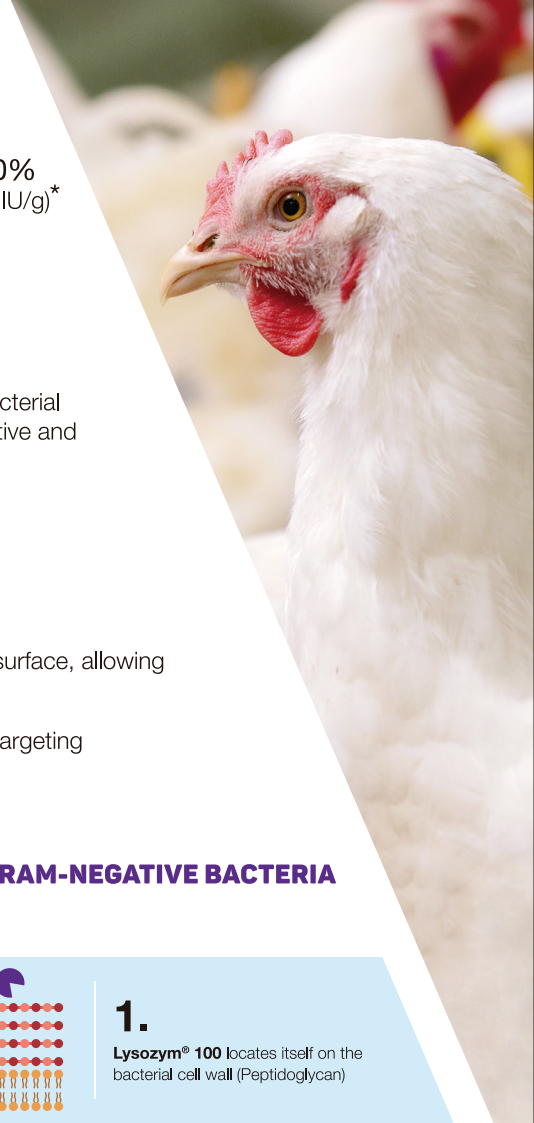
Lysozym® 100

Pure Lysozyme 10% *
Modified by biotechnology

Excellent growth promoter,
NON-ANTIBIOTIC

Lysozym® 100

Lysozyme 10%
(500,000 IU/g)*



LEAD THE CHANGE

Lysozym® 100 is a biotechnologically modified lysozyme produced through bacterial fermentation to deliver effective, broad-spectrum protection against Gram-positive and Gram-negative bacteria.

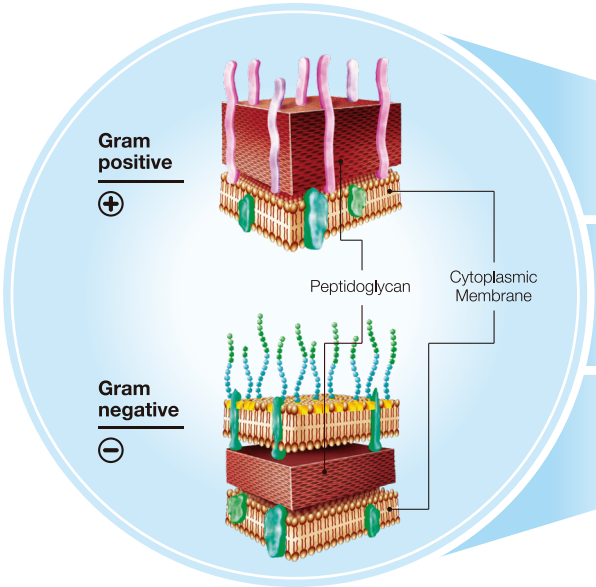
MECHANISMS OF ACTION OF Lysozym® 100

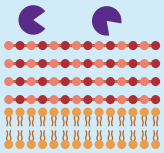
Lysozym® 100 exerts its effecacy through two mechanisms of action:

- FACILITATES PHAGOCYTOSIS: Acts as an opsonin by binding to the bacterial surface, allowing phagocytic cells to recognize more easily the pathogenic bacteria.
- HYDROLYZES THE BACTERIAL WALL: Binds to the bacterial cell wall, directly targeting peptidoglycan.

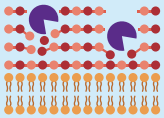
BROAD SPECTRUM OF ACTION AGAINST GRAM-POSITIVE AND GRAM-NEGATIVE BACTERIA

HYDROLYSIS OF THE BACTERIAL WALL (PEPTIDOGLYCAN)

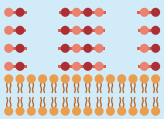




1.
Lysozym® 100 locates itself on the bacterial cell wall (Peptidoglycan)



2.
It exerts its action by destroying the glycosidic bond between N-acetylmuramic acid (NAM) ● and N-acetylglucosamine (NAG) ●



3.
Thus **Lysozym® 100** acts by hydrolyzing the wall, with the consequent bacterial death.



HIGH PERFORMANCE IN LAYING HENS

- ✓ Increases laying rate.
- ✓ Extends the laying peak.
- ✓ Optimizes the recovery of the reproductive system.
- ✓ Prevents bacterial infections during the laying period.

METHODOLOGY:

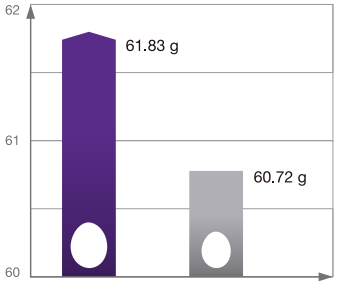
The effects of **Lysozym® 100** were evaluated on the performance of 34-week-old laying hens. The sample was divided into 6 groups, each consisted of 20 chickens, performing three replicates per group.

Dose	
Group **Lysozym® 100**	98 g of **Lysozym® 100** / ton of feed
Control group	Basal diet

Study duration: 56 days

EFFECTS OF Lysozym® 100 ON PRODUCTIVE PARAMETERS OF LAYING HENS[1]

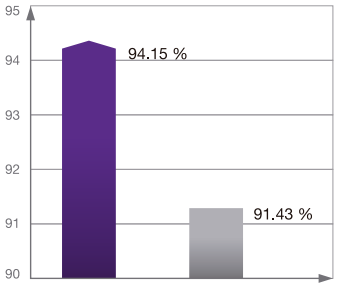
INCREASES AVERAGE WEIGHT OF THE EGG



The average egg weight in the group treated with **Lysozym® 100** was **1.11 grams more** than the control group.

■ **Lysozym® 100**
■ Control

OPTIMIZES THE LAYING RATE



The laying rate in the group treated with **Lysozym® 100** was **94.15 %** compared to the control group which was 91.43%.

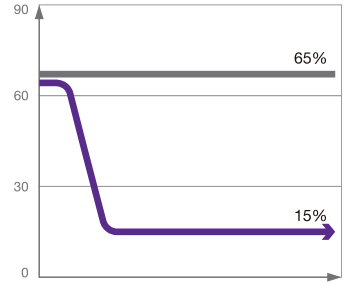
■ **Lysozym® 100**
■ Control

THE EFFECTIVE AND SAFE ALTERNATIVE FOR BREEDING WITHOUT ANTIBIOTICS

- Promotes intestinal integrity by increasing villus height and decreasing the depth of the crypts of the intestine.
- Promotes the colonization of beneficial bacteria and reduces the population of pathogenic microorganisms.
- It is not toxic, leaves no residue in meat and eggs.
- Does not generate antibiotic resistance.

STUDIES WITH Lysozym® 100 HAVE DEMONSTRATED AN EXCELLENT ACTION IN PREVENTING CASES OF DIARRHEA[2]

REDUCTION OF DIARRHEA AVERAGE RATE



The group treated with **Lysozym® 100** had a significant reduction in the average rate of diarrhea, being only 15%.

- **Lysozym® 100**
- Control



RESISTANT TO PELLETING

It has been shown that **Lysozym® 100** maintains its stability without losing its enzymatic activity when subjected to pelleting's high temperatures (80-85°C).[3]



EXCELLENT GROWTH PROMOTER, NON-ANTIBIOTIC

- ✓ Optimizes feed conversion rate and weight at slaughter.
- ✓ Improves digestibility and daily weight gain.
- ✓ Improves protein quality and reduces the percentage of fat in the carcasses.(4)

METHODOLOGY:

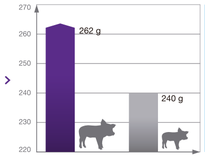
Effects of **Lysozym® 100** on the performance of piglets of 28 days of age were evaluated.
The sample was divided into 4 groups, each group consisting of 10 piglets, performing 1 replicate per group.

Dose administered	
Group **Lysozym® 100**	300 g of **Lysozym® 100** /t of feed
Control group	Basal diet

Study duration: 4 weeks

EFFECTS OF Lysozym® 100 ON PRODUCTIVE PARAMETERS OF WEANLING PIGS (2)

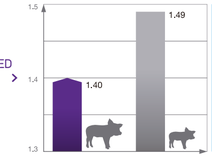
IMPROVES AVERAGE DAILY GAIN (ADG)



Lysozym® 100 increased average daily gain in treated piglets by **9.2% compared** to the control group, representing an additional **22 grams** of average weight gain per day.

■ **Lysozym® 100**
■ Control

OPTIMIZES FEED CONVERSION RATIO (FCR)



Lysozym® 100 positively impacted the feed conversion ratio, achieving a **lower FCR (1,40)** in the treated piglet group.

■ **Lysozym® 100**
■ Control

Lysozym® 100

Lysozyme 10% (500,000 IU/g)*

LEAD THE CHANGE



DOSAGE AND ADMINISTRATION:

Lysozym® 100 should be administered orally, mixed in the food or drinking water at the following concentrations:

	g **Lysozym® 100** / T of feed g **Lysozym® 100** / 2,000 L of water
Broilers (meat) and turkeys - Start	80-150 g
Broilers (meat) and turkeys - Growth	60-80 g
Broilers (meat) and turkeys - Finish	50-60 g
Posture, reproducers and competition	80-100 g

	g **Lysozym® 100** / T of feed g **Lysozym® 100** / 2,000 L of water
Swine	100-150 g
Weaned pigs	150-300 g
Growth and finishing	70-100 g
Lactating sows	100-150 g

Use during critical moments or throughout the process (in poultry, the significant effect of the product is given on the period of 1 to 21 days old).
As a therapeutic support in infections and in situations of extreme stress, manage it at the rate of 1 kg / t of feed or 1 kg / 2,000 L of water for 5 days before and/or during critical moments

! NO WITHDRAWAL PERIOD

★ Each gram of **Lysozym® 100** contains 500,000 international units of lysozyme.

(1) Effect of **Lysozym® 100** on the productive performance of laying hens and egg quality. Yang Rongfang, Liaoning Agricultural Vocational and Technical College, Nanchang Lifeng Industry and Trading Co. , Ltd.
(2) Effect of **Lysozym® 100** on the productive performance of piglets. Qiu Weihai, Pan Hongtao Jiang Hongwei, Nanchang Lifeng Industry and Trading Co. , Ltd.
(3) Stable enzyme activity during the first minute of subjection to heat at temperatures of 80-85 °C .
(4) Use of lysozyme mixed rations for broilers, State Scientific Institution, All Russian Research and Technological Poultry Institute of the Russian Academy of Agricultural Sciences, 2014 .

Avivet®

For more information:
sales@agrovetmarket.com
✆ +51 (1) 2 300 300 Ext. 101 / +51 922 926 786
www.avivet.net
Av. Canada 3792 - 3798
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New

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sales@agrovetmarket.com
+51 (1) 2 300 300 Ext. 101 / +51 922 926 786
www.avivet.net
Av. Canada 3792 - 3798
San Luis, 15021 - Lima - Peru

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