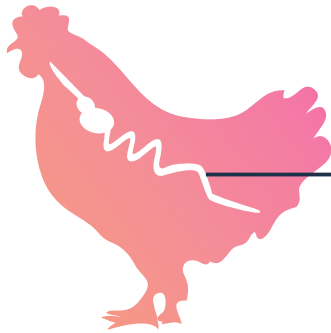




Lipotide

Effective antimicrobial peptides for a new generation of farming



Antimicrobial Solutions That Work.

Lipotide is a new generation cyclic lipopeptide (L20RX83) that has shown strong antibacterial activity against a wide range of gram-positive bacteria and is also effective in controlling coccidiosis in poultry. It is effective against bacteria such as *Clostridium perfringens*, *Staphylococcus* spp., *Streptococcus* spp. and *Enterococcus* spp.

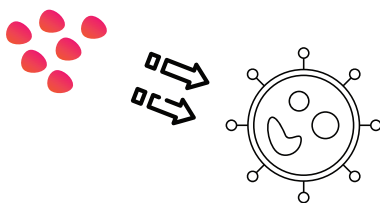
Antimicrobial Peptides: Bacterial control without antibiotics

Alternative Antibiotic Growth Promoter (AAGP)

Lipotide belongs to the class of cyclic lipopeptides, which are known for their strong antibacterial activity. Lipotide disrupts the cell wall of gram-positive bacteria, causing the bacteria to lose their structural integrity and leads to death. Specifically, Lipotide binds to lipid II, a key precursor in the synthesis of the bacterial cell wall, and prevents its incorporation into the cell wall.

Lipotide attacks the cell wall

Lipotide

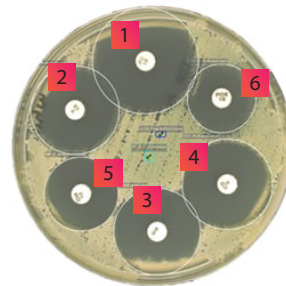


Lipotide binds to lipid II, preventing cell wall formation

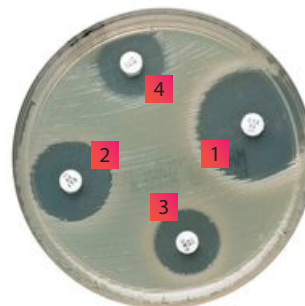
Lipotide



Lipotide a new solution for pathogen control.



- 1: *Clostridium perfringens* type A - Lipotide at 1000ppm
- 2: *Clostridium perfringens* type A - Lipotide at 900ppm
- 3: *Clostridium perfringens* type A - Lipotide at 800ppm
- 4: *Clostridium perfringens* type A - Lipotide at 700ppm
- 5: *Clostridium perfringens* type A - Lipotide at 600ppm
- 6: *Clostridium perfringens* type A - Lipotide at 500ppm



- 1: *Staphylococcus aureus* ATCC 33591 - Lipotide at 1000ppm
- 2: *Staphylococcus aureus* ATCC 33591 - Lipotide at 800ppm
- 3: *Staphylococcus aureus* ATCC 33591 - Lipotide at 600ppm
- 4: *Staphylococcus aureus* ATCC 33591 - Lipotide at 400ppm





Lipotide

The real future of antimicrobials.



Usage and administration

Indicative dosage and application		Prevention	Treatment
Broiler	Broiler starter	100g per tonne feed	150g per tonne feed
	Broiler grower/finisher	150g per tonne feed	200g per tonne feed
Pullet - Layer/breeder	Pullet (1 - 14 weeks)	100g per tonne feed	200g per tonne feed
	Pullet (14 - 18 weeks)	150g per tonne feed	200g per tonne feed
	Pullet (> 18 weeks)	150g per tonne feed	200g per tonne feed
Nursery Pigs	Week (1 - 14 weeks)	100g per tonne feed	200g per tonne feed
	> 4 weeks	100g per tonne feed	200g per tonne feed
Grower Pigs	< 6 week after weaning	200g per tonne feed	300g per tonne feed
	> 6 week after weaning	200g per tonne feed	300g per tonne feed

Key Benefits of Lipotide:

Heat-stable

Antimicrobial activity remains >90% at 150°C for 30 minutes.

0 day Withdrawal

No withdrawal period for meat, egg or byproducts.

Acid-stable

Not affected by acidic pH or contact with acidifiers.

In Vivo and In Vitro Effective

Sustainable

Production and usage does not damage the environment.

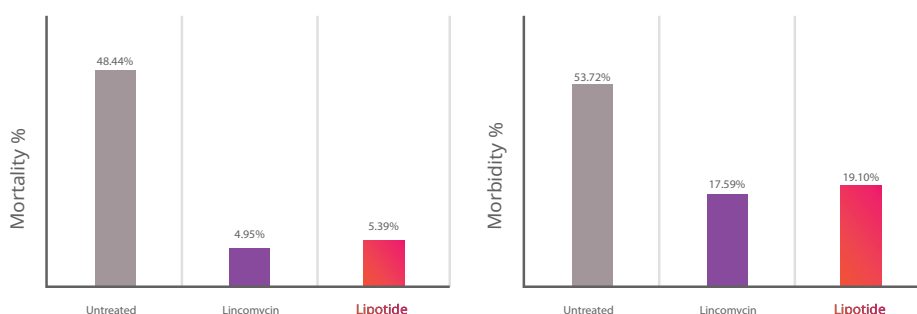
Low resistance development

Bacteria is slow to develop resistance against Lipotide.

Field Trial Results

The field trial conducted on Lipotide was carried out in Myanmar by the University of Veterinary Science, Yezin between February-June 2022. The trial involved 6 closed houses, with 2 houses allocated per group and 8,000 ISA White pullets per house. The three groups were: treated with Lipotide, treated with lincomycin hydrochloride, and untreated. Significant results were observed in the Lipotide-treated group, which showed a difference of 33% in mortality rates compared to the untreated group and similar results when compared to the group treated with lincomycin hydrochloride.

These results demonstrate Lipotide's potential as a beneficial solution for the poultry industry in terms of enhanced health and productivity. Its antimicrobial properties offer a novel approach to combat bacterial infections and improve overall chicken well-being in the poultry sector.



The successful trial in Myanmar, conducted in a large-scale setting with 6 closed houses and three distinct groups, underscores the potential of Lipotide as a practical and effective solution for real-world poultry farming.