



ArioBiotic

100% Herbal Antibiotic

Water-Soluble Nano-Encapsulated Powder

- Formulated based on active phytochemical compounds
- Broad-Spectrum antibacterial activity
- Utilizes nano-encapsulation technology to enhance efficacy, solubility & stability
- No withdrawal period
- No risk of antimicrobial resistance
- Manufactured under GMP standards

Mode of action:

This herbal antibiotic is formulated based on active phytochemical compounds and eliminates bacteria through four primary mechanisms of action:

- Disruption of bacterial cell membrane integrity
- Inhibition of energy metabolism
- Interference with intracellular processes
- Inhibition of bacterial cell-to-cell communication

The herbal antibiotic disrupts the bacterial cell membrane by increasing its permeability, causing leakage of intracellular contents, reducing membrane potential, and interfering with the folding and integration of outer membrane proteins, ultimately leading to bacterial death. It reduces toxin production and secretion, interferes with metabolic pathways, inhibits flagellin synthesis, suppresses intracellular enzyme activity, and decreases the activity of lipase and coagulase enzymes in bacteria.

Furthermore, by collapsing bacterial membrane potential, inhibiting efflux pumps, disrupting proton pumps, and depleting ATP reserves, it suppresses bacterial energy metabolism. In addition, **ArioBiotic®** inhibits quorum sensing, preventing biofilm formation and bacterial colonization.

The diversity, complexity, and stability of its active compounds, along with its multiple mechanisms of action, ensure optimal antibacterial efficacy while eliminating the risk of developing antimicrobial resistance.



- Increased bacterial cell membrane permeability leading to the leakage
- Disturb the insertion and folding of outer membrane proteins
- Reduce membrane potential

- Inhibit Quorum Sensing and biofilm formation

Disruption Of
The Bacterial
Cell Membrane

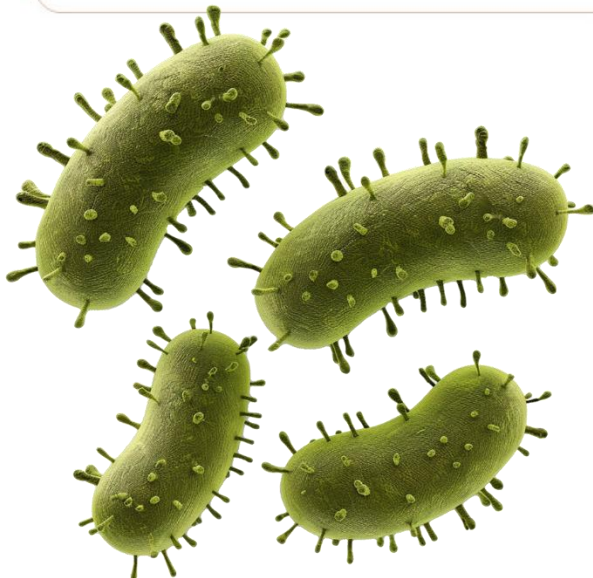
Inhibit the cell-
cell
communication

Inhibit Energy
Metabolism

Bacterial
Function
Disruption

- Loss of mitochondrial membrane potential
- Inhibition of efflux pumps
- Disruption of proton pumps
- Depletion of ATP

- Metabolic pathway disruption
- Reduction in lipase and coagulase activity, enzyme inhibition
- Reduced toxin production
- Inhabitation of toxin secretion
- Inhibit the synthesis of flagellin



Dosage and Administration:

200 g per 1,000 L of drinking water for 3–5 consecutive days.



Drug Interactions:

No known drug interactions

Withdrawal Period:

None

Precautions:

Keep out of reach of children

In case of accidental contact with eyes, rinse immediately with plenty of water

Storage Conditions:

Tightly reseal the sachet after each use.

Store in a dry place, below 25°C and away from direct sunlight.

Packaging:

200 g aluminum sachet

Shelf Life:

2 years from production



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