



Alpiguard BMD

Precision Gut Health, Maximized Growth



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Alpiguard BMD is a highly effective antibacterial feed additive containing Bacitracin Methylene Disalicylate (BMD) 10%, designed to enhance growth performance and feed efficiency in poultry. It is widely used for the prevention and control of necrotic enteritis caused by *Clostridium perfringens* and other susceptible pathogens. Alpiguard BMD improves gut health by modulating the intestinal microbiota, reducing bacterial toxin production, and promoting optimal nutrient absorption.

Indications

- **Prevention & Control:** Helps in the prevention and management of necrotic enteritis and enteric infections associated with *Clostridium spp.*
- **Growth Promotion:** Enhances weight gain, feed efficiency, and egg production in poultry.

Mechanism of Action

Bacitracin Methylene Disalicylate (BMD) acts through multiple antibacterial pathways:

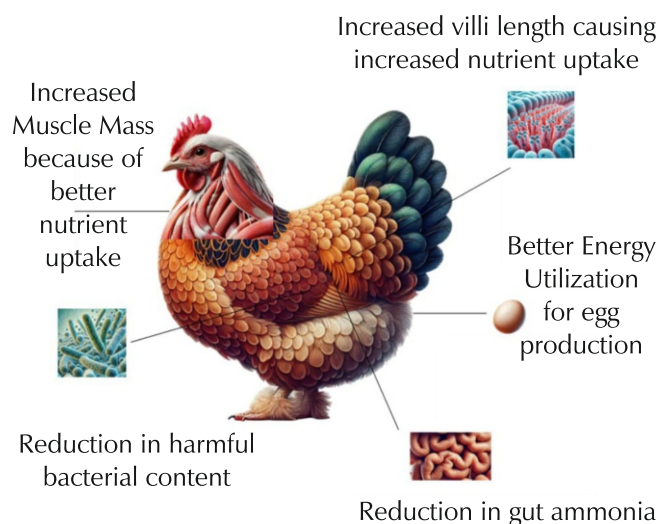
- 1. Inhibition of Cell Wall Synthesis:** Alpiguard BMD disrupts peptidoglycan biosynthesis by binding to undecaprenyl pyrophosphate (UPP), a lipid carrier essential for peptidoglycan transport effectively causing bacterial cell wall lysis.
- 2. Osmotic Disruption:** Alpiguard BMD interferes with the lipid bilayer of bacterial membranes, resulting in increased ion leakage and disruption of osmotic balance.
- 3. Reduction of Intestinal Toxins:** Alpiguard BMD inhibits toxin-producing bacteria, improving intestinal integrity and function.

Growth-Promoting Mechanism

Alpiguard BMD enhances growth performance by reducing bacterial toxin load, minimizing gut inflammation, and improving nutrient absorption. By suppressing *Clostridium perfringens* and other pathogens, it lowers oxidative stress and immune overactivation, allowing birds to efficiently utilize nutrients. BMD also enhances intestinal villus height and crypt depth ratio, increasing the absorptive surface for better uptake of amino acids, vitamins, and minerals, ultimately optimizing feed conversion efficiency (FCR) and growth rates.

Additionally, BMD reduces ammonia, hydrogen sulphide, and toxic amine production by limiting the fermentative breakdown of undigested protein, promoting a healthier gut environment. By preventing enteric infections and ensuring proper gut function, Alpiguard BMD allows energy to be efficiently utilized for weight gain, egg production, and muscle development, leading to improved feed conversion and overall productivity.

Benefits of Alpiguard BMD



Key Benefits

- **Non-Absorbable :** Remains within the intestinal lumen, ensuring no withdrawal period is required.
- **Enhanced Productivity :** Reduces subclinical and clinical necrotic enteritis, improving overall flock performance and decreased morbidity/mortality.
- **Safe and Approved :** BMD is not classified as a medically important antibiotic for human health by FDA/CVM, making it safe for use in poultry production.
- **Wide Safety Margin :** Well-tolerated across different poultry species and production conditions.

Dosage & Administration

Mixing Directions

Incorporate 200g to 500g of Alpiguard BMD per tonne of complete poultry feed, achieving a final BMD activity of 20-50 ppm. The dosage should be adjusted based on disease severity, flock management practices, and environmental conditions.

Feeding Directions

- Administer continuously as part of the complete feed.
- For uniform distribution, it is recommended to preblend Alpiguard BMD with 8-10 kg of feed before incorporating it into the final feed batch.
- Ensure thorough mixing for consistent efficacy.

Presentation

• 25 Kg Bag

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