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# AVIZYME-PRO

Powder Enzyme Formulation

*A scientifically advanced multi-enzyme system enhancing nutrient utilization in poultry*

## — Key Performance Benefits —

- ✓ Improves nutrient digestion and feed efficiency
- ✓ Enhances growth performance and FCR
- ✓ Optimizes energy and mineral availability
- ✓ Promotes sustainable and consistent performance





## Overview

Avizyme-Pro is a scientifically developed multi-enzyme designed to improve nutrient digestion and utilization in poultry diets. It harnesses the synergistic action of xylanase, amylase,  $\beta$ -glucanase, and phytase to effectively break down complex feed components, enhancing nutrient absorption, growth performance, and feed conversion efficiency. The advanced formulation supports optimal gut health and delivers consistent results across diverse feed formulations, making it suitable for both broilers and layers. By reducing anti-nutritional effects and improving feed uniformity, Avizyme-Pro enables more cost-effective feed formulations. It also contributes to better flock uniformity and sustainable poultry production.



## Composition

A highly potent feed-grade enzyme blend, formulated on a calcium carbonate carrier to ensure uniform mixing, stability, and consistent performance. The formulation includes:

- **Endo-1,4- $\beta$ -xylanase** – Degrades arabinoxylans in plant cell walls, enhancing nutrient release and digestibility.
- **$\alpha$ -Amylase** – Converts complex starches into readily digestible sugars, improving energy utilization.
- **$\beta$ -Glucanase** – Lowers intestinal viscosity caused by  $\beta$ -glucans, supporting better nutrient absorption and gut function.
- **Phytase** – Releases bound phosphorus and essential minerals, improving mineral availability while reducing nutrient excretion and environmental load.



## Mode of Action

- **Xylanase** breaks down arabinoxylans in plant cell walls, removing physical barriers and enhancing the release of encapsulated nutrients.
- **Amylase** acts on complex starch molecules, converting them into simple sugars for faster and more efficient energy availability.
- **$\beta$ -Glucanase** degrades  $\beta$ -glucans present in cereals such as wheat and barley, reducing intestinal viscosity and improving overall nutrient digestion.
- **Phytase** hydrolyzes phytate-bound phosphorus, liberating bioavailable phosphorus, calcium, and trace minerals while reducing mineral losses through excretion.



## Benefits

- Enhances nutrient breakdown and feed utilization, leading to improved feeding efficiency.
- Promotes faster growth and better feed conversion, maximizing production outcomes.
- Optimizes energy and mineral absorption, while maintaining healthy gut function and reduced viscosity.
- Delivers consistent and sustainable performance, minimizing phosphorus losses and adapting well to diverse feed formulations.



# Presentation

Form: Powder

Packaging: Available in 25 kg Drum

DOSAGES (g/ton of feed)	
Species	g/ton complete feed
Broilers	200
Layers	120
Breeders	500

MATRIX VALUE (%)	
Parameter	%
Humidity	2
Protein	1.4
Fat	0.2
Starch + sugars	1.5
Ash	92
Sodium	0.004
Potassium	0.22
Chlorine	0.07
Magnesium	0.07
Salt	0.11

MATRIX VALUE (%)	
Parameter	%
Pav. Layers	1220
Pav. Broilers	732
Pav. Breeders	3458
Calcium	625
Dig Lysine Poultry	125
Dig Methionine Poultry	15
Dig Threonine Poultry	100
Dig Tryptophane Poultry	25

ENERGY LEVELS POULTRY		
Species	kcal/kg	MJ/kg
Broilers	500,000	2090
Layers	500,000	2090
Breeders	575,000	2406



At Rigel Global Pvt. Ltd., we are committed to enhancing animal health, productivity, and overall well-being through advanced nutritional and healthcare solutions. Our Animal Health & Nutrition Division partners closely with farmers, veterinarians, and feed manufacturers across India and international markets, delivering scientifically validated products that support performance optimization, immune strength, and sustainable production in poultry, livestock, and aquaculture. Backed by a robust research-driven approach and global collaborations, we integrate internationally proven formulations with region-specific technologies to address the dynamic needs of the poultry, dairy, and aquaculture industries. Our diverse portfolio spans feed additives, probiotics, veterinary formulations, and biosecurity solutions —each developed with a strong focus on quality, efficacy, and safety.

Guided by our core principles of Integrity, Innovation, and Impact, Rigel Global Pvt. Ltd. strives to strengthen the food value chain while empowering partners with dependable products and expert technical support. We believe that healthy animals are the foundation of a healthy world, and every solution we deliver reflects this enduring commitment.



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