



HORUS
INTERNATIONAL
PVT LTD

DRIVEN WITH VISION



Protease Enzyme product

Protesorb

Unlock the Power of Protein

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Product :

Protesorb is a highly concentrated protease enzyme formulation designed to enhance protein hydrolysis in poultry feed, thereby improving nitrogen utilization and reducing feed costs. By increasing protein digestibility, Protesorb optimizes amino acid absorption, supports metabolic functions, and minimizes nitrogen excretion, contributing to improved gut health and environmental sustainability.

Composition :

Protease Enzyme: 700,000 IU/G

(Tested by HB method)

Inert Carrier: Q.S.

Mechanism of Action :

- **Protein Hydrolysis:** Protease enzymes break down large protein molecules into smaller peptides and free amino acids.
- **Enhanced Absorption:** The smaller peptides and amino acids are efficiently absorbed through the intestinal lining, improving nitrogen retention.
- **Reduction of Anti-Nutritional Factors:** Protease deactivates protein-based anti-nutrients, improving overall digestibility.
- **Gut Microbiota Modulation:** By reducing undigested protein in the gut, Protesorb minimizes pathogenic microbial growth, promoting gut health.
- **Reduction in Nitrogen Excretion:** Enhanced protein utilization decreases nitrogen wastage, reducing ammonia emissions and environmental pollution.

Key Benefits :

- **Enhances Protein Digestibility:** Maximizes amino acid bioavailability, leading to better growth and feed efficiency.
- **Supports Physiological Functions:** Plays a crucial role in homeostasis, apoptosis, signal transduction, reproduction, and immunity.
- **Improves Gut Health & Nutrient Absorption:** Reduces undigested protein in the intestine, minimizing harmful microbial activity.
- **Enhances Performance in Broilers:** Supports weight gain and feed conversion ratio (FCR) in poultry, especially under protein-deficient diets.

- **Cost-Effective Feed Optimization:** Allows feed formulators to reduce crude protein and amino acid supplementation, lowering feed costs.
- **Environmental Sustainability:** Reduces nitrogen excretion, mitigating ammonia emissions and minimizing the environmental impact.

Nutrient Contribution of Protesorb @ 350g/Tonne Feed

Parameters	Nutrient Contribution	Matrix Value
ME, Kcal	60	171428
Dig. Crude Protein %	1.3	3714
Dig. Lys %	0.07	200
Dig. Met %	0.026	74
Dig. Met + Cys %	0.05	143
Dig. Thr %	0.046	131
Dig. Try %	0.012	34
Dig. Ileu %	0.047	134
Dig. Leu %	0.042	120
Dig. Val %	0.054	154
Dig. His %	0.017	48
Dig. Arg %	0.075	214

Note:

- For Layer Feed, 70% of the above matrix should be considered for reformulation of Layer diet.
- If the feed formula is completely based on digestible amino acid basis, then it is suggested to consider only energy and digestible amino acid matrix, not for crude protein.
- Energy and amino acid matrix need to be considered from a single source of additive only. Do not consider multiple matrices for the same nutrient from different additives; like energy from NSP enzymes, protease, Phytase, Betaine, etc.

Dosage :

Recommended Dosage: 350 g per ton of feed (or as per veterinarian's advice).

Presentation :

Available in 25 kg Bags & Drums.

