



ALPI-PRO

Optimizing Protein Digestibility
& Performance



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Product :

Alpi-pro 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, Alpi-pro 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, Alpi-pro 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 Alpi-pro @ 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.

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