

## GRAPE POLYPHENOLS FOR BROILER PERFORMANCE



### What is Vitifeed™ ?

Vitifeed™ is a standardized natural grape extract developed to support **performance, gut health, and resilience** in broiler chickens, particularly in intensive and antibiotic-reduction production systems.

- **Natural dry grape extract** from seeds and skins (*Vitis vinifera*).
- **Origin:** Spain. Upcycled by-products from the wine industry.
- **Extraction:** Water-based physical extraction preserving the polyphenol profile.
- **Format:** Powder format, easy incorporation via premixes and compound feed.
- A functional and **sustainable solution** for B2B poultry producers.

### Why Grape Polyphenols in Broiler Nutrition?

Scientific evidence clearly shows that grape polyphenols act as **metabolic and intestinal modulators**, directly impacting productivity, health, and flock consistency.

#### 1. Improved growth performance

- Increased body weight and average daily gain.
- Improved feed conversion ratio (FCR) when correctly dosed.
- A natural tool to support antibiotic-free and AGP-free programs.

#### 2. Enhanced gut health and microbiota balance

- Promotion of beneficial bacteria such as *Lactobacillus* and *Bifidobacteriaceae*.
- Better intestinal integrity and nutrient absorption.
- Reduced digestive instability under commercial farming conditions.

### 3. Strong antioxidant and immune support

- Activation of key antioxidant enzymes (SOD, CAT, GSH-Px).
- Reduced oxidative stress associated with heat, density, and sanitary challenges.
- Improved resilience against enteric stressors, including coccidial pressure.

### 4. Optimized metabolism and robustness

- Positive modulation of lipid and energy metabolism.
- Improved physiological efficiency linked to more uniform and predictable flocks.

**Scientific insight:** grape polyphenols are not a marketing trend. When properly formulated, they are a **reliable functional ingredient** to improve efficiency and robustness in modern broiler production.

## Less oxidative stress = higher production efficiency

Vitifeed™ contributes to more consistent results between flocks, reducing variability and economic risk for integrators and feed manufacturers.

## Recommended application

- Inclusion via premix or complete feed.
- Indicative dosage: 200–500 mg/kg of feed.
- Adjust according to age, production goals, and sanitary pressure.
- Fully compatible with antibiotic-reduction and sustainability-driven programs.

### ANIMAL NUTRITION

PRODUCT NAME	SKU	POLYPHENOLS	PROANTHOCYANIDINS	ANTHOCYANIDINS
Vitifeed™ 80	55707	NLT 80% (OD 280nm)	NLT 60% (Porter)	NLT 0.75 (HPLC)

## Specifications:

- **Appearance:** brown-red powder.
- **Antioxidant capacity:** ORAC ≥ 12,000 mmol TE/g.
- **Packaging:** standard 20 kg format.
- **Shelf Life:** 4 years from date of manufacture (stored as suggested, non-opened in original packaging).

*Vitifeed™ elevates broiler nutrition by combining performance, health, and sustainability—backed by science and designed for modern poultry production.*

#### References:

1. **Cao, G. et al.** (2020). Change of serum metabolome and cecal microflora in broiler chickens supplemented with grape seed extracts. *Frontiers in Immunology*, 11:610934.
2. **Gungor, E., Altop, A., & Erener, G.** (2021). Effect of raw and fermented grape seed on growth performance, antioxidant capacity, and cecal microflora in broiler chickens. *Animal*, 15(3):100194.
3. **Grandhaye, J. et al.** (2020). Microbiota changes due to grape seed extract diet improve intestinal homeostasis and decreased fatness in parental broiler hens. *Microorganisms*, 8(8):1141.
4. **Viveros, A. et al.** (2011). Effects of dietary polyphenol-rich grape products on intestinal microflora and gut morphology in broiler chicks. *Poultry Science*, 90, 566–578.
5. **Chand, N. et al.** (2021). Protective effect of grape (*Vitis vinifera*) seed powder and zinc-glycine complex on growth traits and gut health of broilers following *Eimeria tenella* challenge. *Antibiotics*, 10(2), 186.

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