LIGNOFEED® for Broiler

- **INTRODUCTION**
  - Fiber is a complex and poorly understood nutrient with multiple physiological implications.
  - Technical fibers used in animal nutrition often lack adaptation to age or species-specific needs.

- **The LIGNOFEED® Innovation**
  - Sourced from Mediterranean agro-industrial by-products: almond shells, olive pit, grape skin, nut shell and almond shell.
  - Balanced mix of insoluble and prebiotic-soluble fibers (FOS), rich in polyphenols.
  - Micronized structure increases surface area and functionality at low inclusion .

- **FIBER CHARACTERISTICS & FUNCTION**
  - Key fiber types: crude fiber, insoluble, soluble, fermentable.
  - Physical properties: water holding capacity, swelling index, particle size influence.
  - Fermentability influences SCFA production and microbiota modulation.

- **FIBER AND GUT HEALTH IN BROILERS**
  - Insoluble fibers improve microbiota diversity and digestive health.
  - Smaller particle size enhances fermentation and nutrient absorption.
  - FOS improves villi height and calcium retention.

- **TRIALS**
  - TEST 1 (21 days) - Ross 308:
    - Compared 8 fibrous substrates with different particle sizes and hydration capacities.
    - Best performance and gain in diets with finely ground materials
  - TEST 2 (42 days) - Cobb 500:
    - Lignofeed concentrate improved productivity (21-42d), ileal digestibility of OM, SM, and PB.
    - High fermentation capacity confirmed via in vitro analysis.

- **CONCLUSIONS**

Lignofeed® enhances digestive efficiency, microbiota, and nutrient absorption without impairing morphology.Offers sustainable, circular economy-derived fiber alternatives with added prebiotic and antioxidant benefits.Represents a next-generation, multifunctional fiber solution for broilers.

- **Product Line**
  - **LIGNOFEED® P**
  - **LiGNOFEED® P+**
  - **LIGNOFEED® C**

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