LIGNOFEED® PetFood

The **petfood industry** is increasingly looking for **innovative, sustainable, and natural solutions** to improve animal health and well-being. **Dietary fibers** play a key role, offering intestinal and general health benefits.

Key Points

- **Fiber variability**: Different agricultural by-products and commercial fibers show diverse chemical and physical properties, particle sizes, and effects on digestibility, fermentation, microbiota, and stool quality.
- **Physiological implications**: Fibers regulate gut health, prevent intestinal diseases, support immunity, metabolism, and obesity control. They influence fermentation patterns, short-chain fatty acid (SCFA) production, microbial diversity, stool consistency, and nutrient digestibility.
- **Health benefits**: Improved gastrointestinal function, modulation of microbiota (increase of beneficial bacteria like *Bifidobacterium* and *Lactobacillus*), better fecal consistency, weight management, lipid and glucose metabolism regulation, and immune modulation.

New ingredient – LIGNOFEED® PF:

  - A functional **fiber concentrate** from Mediterranean sources (almond, walnut, olive by-products, chicory, pistachio shells, etc.).
  - Combines **insoluble and soluble fibers** with prebiotic and antioxidant properties (polyphenols).
  - Micronization improves surface area and efficacy at low inclusion levels, supporting gut health at all life stages.
  - Positioned as a sustainable alternative aligned with circular economy principles.

Differentiation: Unlike standard wood-derived lignocellulose, LIGNOFEED® offers innovative raw materials attractive to consumers, customizable blends, and better adaptation to species and age-specific physiological needs.

Conclusions

- Fiber remains difficult to fully characterize, but its benefits in pet nutrition are clear.
- LIGNOFEED® introduces a **new fiber concept**: balanced soluble/insoluble fractions, fermentable prebiotic components, low viscosity, intermediate water-holding capacity, and bioactive compounds.
- It represents a **sustainable, functional, and innovative approach** for future petfood development, with strong potential for growth in a rapidly evolving market.

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