



IMPORTANCE OF PROTEIN DIGESTION KINETICS FOR PIGLETS



Protein digestion kinetics, what are we talking about?

DEFINITION

Speed at which proteins are broken down and absorbed in the gastro-intestinal tract

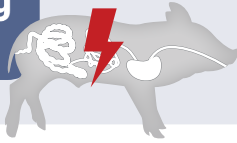
FUNCTIONS

Protein is crucial for piglet growth and health, serving as a building block for cell multiplication

IMPORTANCE

Fast and efficient protein digestion is essential to ensure its bioavailability. Many properties and functions of proteins are related to their absorption kinetics

Weaning phase



- **Critical phase** for piglets while their digestive system is still developing.
- Pigs need **easily digestible and quickly absorbed proteins** to help prevent digestive disorders and reduce risk of health issues.

1 What is the difference between protein digestibility and protein digestion kinetics?

Protein digestibility ...
measures the amount of protein available for absorption from a feed material.



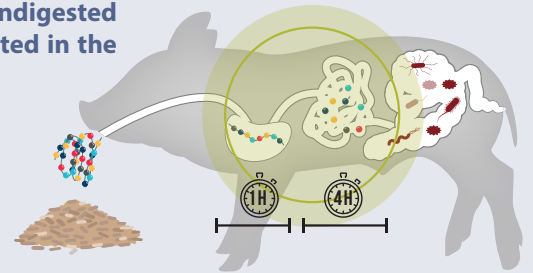
Protein digestion kinetics ...
focuses on the timing of protein absorption along the gastrointestinal tract.

- It is important to consider both for ensuring optimal nutrition.

2 What are the consequences of slow protein digestion?

Protein digestion is mainly happening in the stomach and the small intestine. **If undigested proteins reach the large intestine, proteolytic fermentations can be generated in the presence of some bacteria**, such as Enterobacteria, including *Escherichia coli*.

- It can lead to:
 - The production of undesirable metabolites (e.g., biogenic amines, ammonia)
 - Damage to the gut barrier
 - Poor growth performance
 - Digestive disorders such as diarrhea
 - Impairment of the immune system, increasing susceptibility to disease



3 YELA PROSECURE, a specific functional and nutritional ingredient

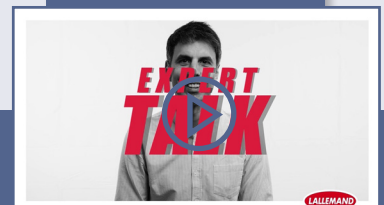
YELA PROSECURE, a specifically designed hydrolyzed yeast, is adapted to the modern challenges of piglets.

- A controlled hydrolysis process → Free amino acids and small peptides → High bioavailability: flash and fast absorption → Reduced levels of undigested proteins in the large intestine.

Benefits:

- + Optimal growth and digestive care contribution
- + Feed intake enhancement
- + Synchrony with sugar assimilation supports body protein synthesis

LEARN MORE



Watch our Expert
Talk video!

