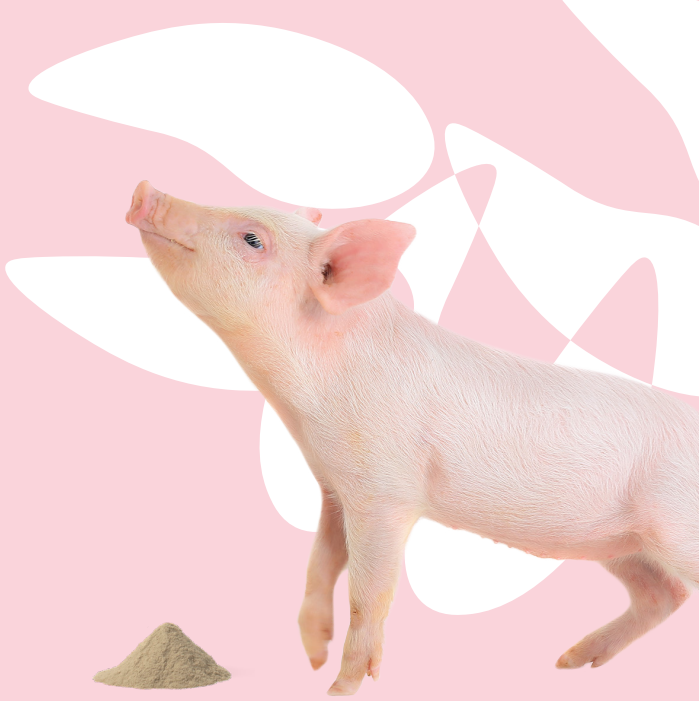
HAMLET PROTEIN®
a nuscience brand



HP FiberBoost, *the ideal functional fiber with prebiotic properties*

- Next generation fibers stimulate gut health and modulate the microbiota

Adding the unique combination of soluble and insoluble fiber with prebiotic properties from FiberBoost to the diets of weaned pigs improves:

- Fecal consistency
- Gut health and development
- Feed intake
- Transition between diets
- Growth

It reduces the need for medical interventions and enables the use of weaner diets with high crude protein levels.

HP FiberBoost contains enzymatically processed soy hulls. This processing method reduces the content of antinutritional factors and alters the fiber composition.

As a result HP FiberBoost has a better fiber profile and more prebiotic carbohydrates than soy hulls.

HP FiberBoost *is enzymatically processed to reach optimum levels of insoluble fibers, soluble fibers, and prebiotics that improve animal performance*

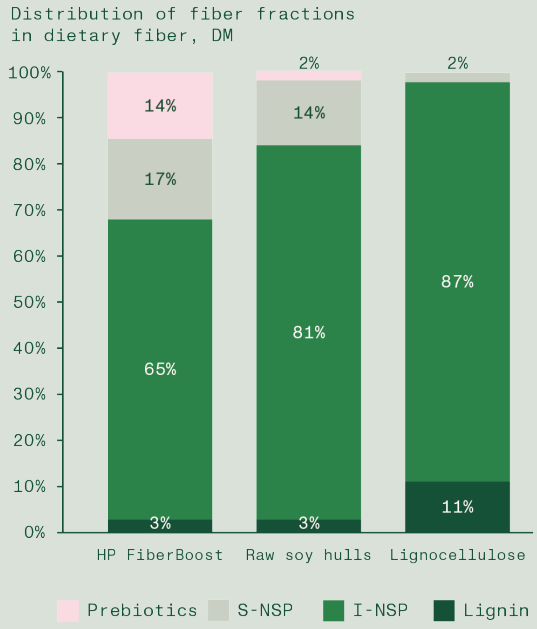


Figure 1. Distribution of fiber fractions in dietary fiber. HP FiberBoost having the highest content of soluble and prebiotic fibers combined with a large proportion of insoluble fibers.



Figure 2. Performance of piglets fed a diet with HP FiberBoost compared with a diet with no fiber added (trial AU0312).

The benefits of fibers

The potential benefits of fiber depend on the composition of the fiber fractions. Dietary fiber can be divided in insoluble -and soluble fibers. The insoluble (or inert) fibers contain insoluble non- starch polysaccharides (I-NSP) and lignin which are almost not degraded in pigs.

The use of insoluble fiber in pig diets contributes to the secretion of digestive enzymes, stimulates peristaltic activity, reduces the adhesion of pathogenic bacteria to the gut wall and improves, due to the water holding capacity, fecal consistency.

The soluble fiber fraction reaches the hind gut intact and serves as a nutrient source for the microbiota that inhabit this part of the digestive tract.

Especially the bacteria that are considered beneficial for gut health like lactic acid producing bacteria and bifidum bacteria are capable of secreting fiber digesting enzymes, which allows them to absorb the carbohydrates from within the fibers.

While digesting these carbohydrates from fiber they produce shortchain fatty acids (SCFA's) which have a positive effect on gut health.

HP FiberBoost improves butyric acid production **in the gut.**

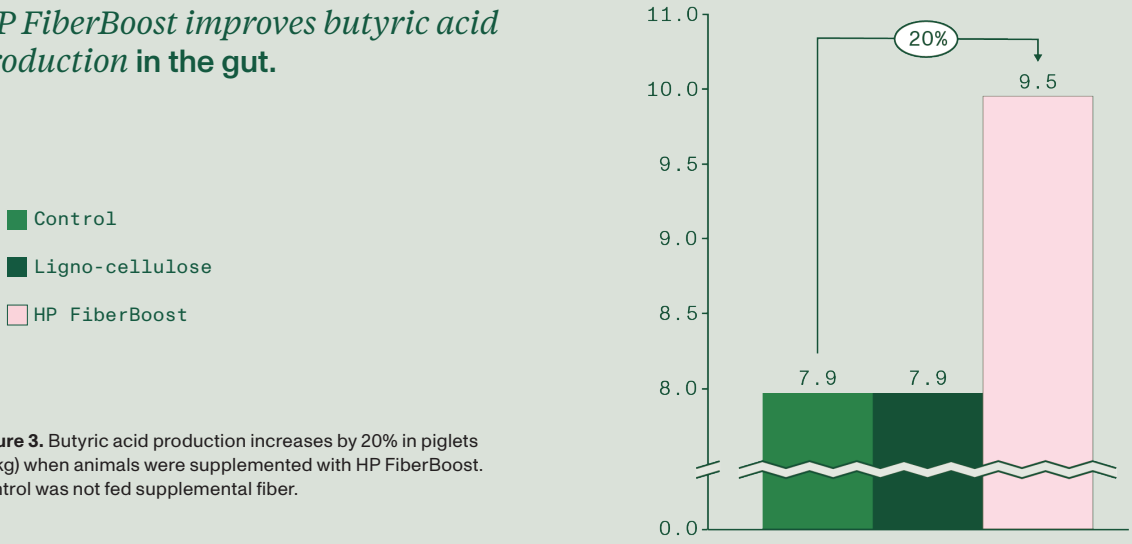


Figure 3. Butyric acid production increases by 20% in piglets (15 kg) when animals were supplemented with HP FiberBoost. Control was not fed supplemental fiber.

HP FiberBoost in nursery diets *allows for high CP levels and improves resilience and uniformity of the herd.*

	Low CP / no added fiber	Low CP / HP FiberBoost	High CP / no added fiber	High CP / HP FiberBoost	SEMP	-value
N, pens	14	14	14	14		
ADG, g/d	333[b]	336[b]	379[a]	379[a]	4.5	<0.001
ADFI, g/d	442[c]	456b[c]	477[ab]	484[a]	6.8	<0.001
FCR, kg/kg	1.422[a]	1.418[a]	1.340[b]	1.347[b]	8.4	<0.001
Mortality rate, %	6.59	1.65	5.49	3.85		0.13*
Uniformity, CoV, %	11.78	11.24	11.56	9.94	0.74	0.23*
Margin over feed cost/pig†, euro	15.15	16.19	17.85	19.25		

Table 1. Day 0-41 performance of pigs fed one of four dietary treatments. Note: ADG = average daily gain; ADFI = average daily feed intake; FCR = feed conversion ratio; Uniformity calculated as coefficient of variation (CoV; mean/sd*200). Superscripts letters (a, b, c) indicate significant differences (p<0.05). *Mortality rate: main effect of HP FiberBoost addition is a near-significant trend (p=0.06); Uniformity: for main effect of HP FiberBoost addition p=0.15. †Based on April 2022 ingredients prices.

HP FiberBoost reduces the risk of protein fermentation in the hindgut

The microbiota that use the prebiotics of HP FiberBoost also like to consume undigested protein. This way less undigested protein remains avialable for the putrefactive bacteria that ferment protein in the hind gut. Protein fermentation is undesirable as it poses a serious risk for gut health.

To avoid protein fermentation, it has become quite common to reduce CP levels of weaner diets since the ban on pharmacological levels of ZnO became valid.

As a result, producers have seen a drop in weaner pigs' growth. Supplementing weaned pigs with HP FiberBoost allows for normal levels of CP to be used which ensure good piglet growth and feed efficiency.

HP FiberBoost increases piglet resilience

The unique combination of soluble and insoluble fiber from FiberBoost improves piglet resilience.

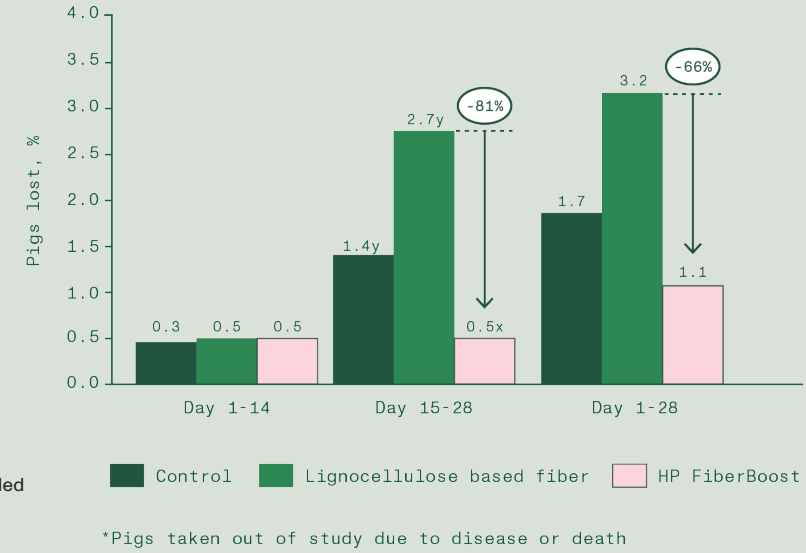


Figure 4. More resilient pigs when HP FiberBoost was added to the diets.



Product description

A pure fiber product based upon enzymatically processed soy hulls formulated specifically for dietetic use in pigs.

Benefits

- ✓ Increased feed intake
- ✓ Firm feces
- ✓ Improved gut health and development
- ✓ More resilient piglets
- ✓ Improved growth performance
- ✓ Enable the use of diets with high CP and energy

Product features

- ✓ Prebiotic carbohydrates
- ✓ Low viscosity
- ✓ Structural fibers that stimulate peristaltic movements
- ✓ Standardized composition
- ✓ Enzymatic-chemical analysis:
  - Total-NSP 57%
    - I-NSP 45%
    - S-NSP 12%
  - Prebiotics up to 10%

Health promoting recommendations

Around 4% crude fiber in final feed is recommended to get full health benefits of fiber.



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