HAMLET PROTEIN®
a nuscience brand



HP 270 - Sows *for improved sow performance* and more piglets weaned per sow

The use of highly digestible protein in transition and lactation diets for sows is important for good lactational performance and subsequent fertility.

HP 270 is an enzyme-treated specialty soy protein, known for its good protein digestibility. The use of HP 270 improves protein efficiency, which reduces excess protein going to the hindgut where it can be fermented by pathogenic bacteria. The direct advantage of avoiding hindgut fermentation of protein in sows is a more favorable microbiota which is then vertically transferred to piglets at birth, providing a good life start. Secondary, as the protein efficiency improves sows can produce better quality colostrum (more immunoglobulins) and more milk with the same amount of feed while the amount of excreted nitrogen per sow decreases.

Improved lactational performance:

- Improved protein efficiency in transition and lactation*
- Better colostrum quality (higher concentration of immune globulins) *
- Higher piglet vitality*
- Increased weaning weight*
- More pigs weaned per sow year*
- Smaller lactational burden meaning improved subsequent fertility especially for younger sows*
- Healthy gut microbiota**
- Better N retention**



* Benefits described in literature for the use of ESBM or SPC in sows.

** Benefits proven in trial with piglets.

Soy protein with reduced ANF's overcomes protein deficiency and stimulates colostrum quality

Soy, besides having an ideal amino acid profile, contains compounds such as isoflavones that are known to stimulate immunological pathways leading to higher immunoglobulin levels in colostrum. Benefits of soy in gestation diets may be further improved when anti-nutritional factors (ANF's) are reduced. The reduction in ANF's levels results in an increased digestibility (SID) of amino acids (AA) which is beneficial for the sows to meet their AA requirements.

Especially during late gestation when most sows suffer from protein deficiency due to the high fetal growth and during lactation when the milk production demands a high protein efficiency the digestibility of protein is crucial.

The most effective method to reduce ANF's is by enzyme treatment. HP 270 is produced in a patented process that ensures reduction of ANF's that are harmful for pigs. Since Hamlet Protein started to reduce the ANF's content of SBM using the enzyme activated technology, the process has been optimized and further developed resulting in the current offering of different enzyme-treated soy proteins.

Product features, benefits and applications

Product features

HP 270 is a specialty soy protein for pigs. For product characteristics and composition check with your Hamlet Protein representative directly or via www.hamletprotein.com.

- Low in ANF's
- Highly digestible
- Highly palatable

Inclusion levels for transition and lactation diets of sows are 3-10%.

Benefits

- Stimulates feed intake and milk production
- Improves colostrum composition
- Improves suckling piglet vitality and growth

Applications

- SBM replacement -better performance expected
- FM replacement – similar to better performance expected



How do I choose *a fast protein source* for diet formulations?

Protein kinetics can be simulated *in vitro*. Research has revealed that Hamlet Protein products have the fastest kinetics among all tested soy-based protein sources (see figure 1).

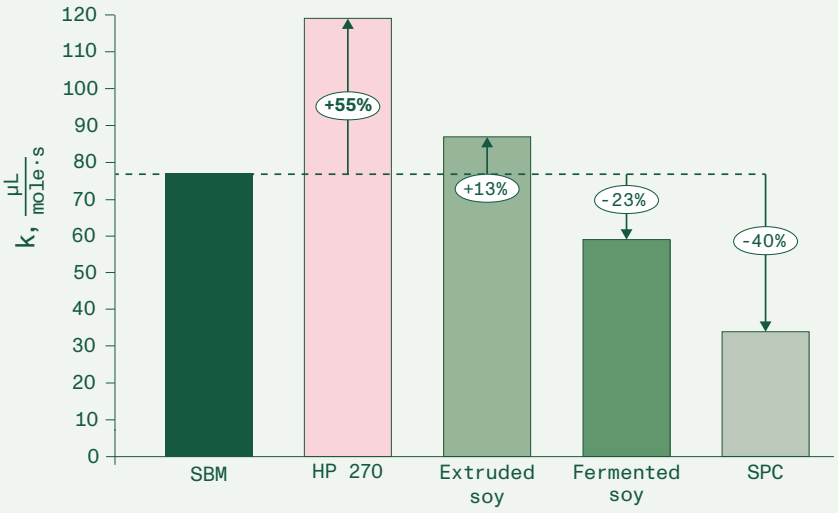

Figure 1 Speed of protein degradation for various soy proteins

Speed of protein degradation for various soy proteins as measured by the hydrolysis constant k[µL/(mole*s); µL=microliter NaOH needed to keep pH at 8 during hydrolysis (acid is released) and s=seconds]. 5 different soy-based protein ingredients were incubated with proteolytic enzymes for 120 minutes (SBM=soybean meal; SPC=soy protein concentrate). Values in bubbles indicate the percentage difference to SBM. The higher the k-value, the faster the hydrolysis and thus absorption.

Hamlet protein offers the fastest vegetable protein

The unique production process of Hamlet Protein using enzymatic treatment does not only effectively reduce the content of anti-nutritional factors but also may modify the protein in such a way that it becomes easier accessible for proteolytic enzymes, resulting in a very fast protein source. Protein from Hamlet Protein hydrolyzes faster than SBM and a lot faster than protein from SPC's.[1]

References

1) Bible et al., 2023; Toghyani et al., 2020; Zhang et al., 2022

HAMLET
PROTEIN®
a nuscience brand

Healthy Animals - Healthy Business

hamletprotein.com

HP270SOWS GLOBAL – OCTOBER 2026