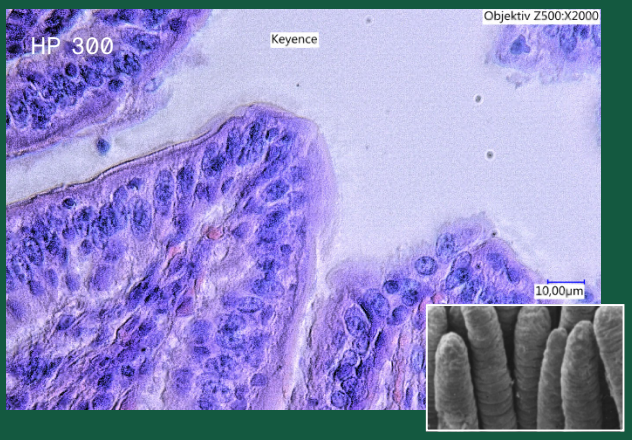
HAMLET PROTEIN®
a nuscience brand

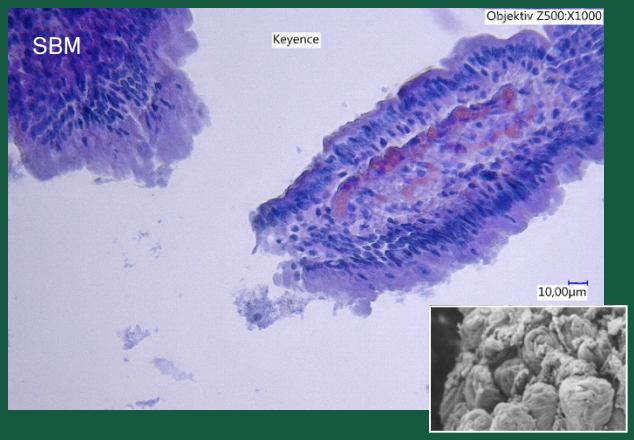


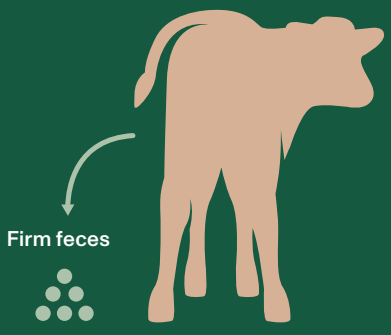
Low scouring with HP 300 in calf pre-starters

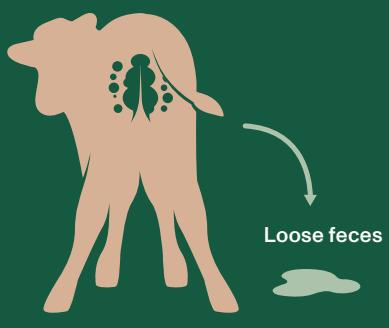
At weaning when milk feeding is reduced and pre-starter intake increases, the calf is still dependent on nutrient absorption from the small intestine. This emphasizes the need for high quality and bioavailable protein sources in pre-starter feeds.
Soy protein is the preferred protein source due to the high protein content and ideal amino acid profile for muscle growth. From nature soy contains anti-nutritional factors e.g. antigens and trypsin inhibitors which are harmful to calves. Antigens creates inflammation locally in the gut, leading to villi atrophy and trypsin inhibitor suppresses the digestibility which combined leads to reduced protein utilization.

Low incidence of scouring and villi atrophy when **HP 300** *is included in pre-starter feeds*









Accommodating the need for a quality protein source without simultaneously having to deal with scouring and low feed utilization, the anti-nutritional factors needs to be eliminated in soy. Hamlet Protein has devloped a gentle processing technique to remove anti-nutritional factors by use of selected enzymes and gentle heating while protecting the essential amino acids. This results in a highly digestible protein ingredient which is better utilized and in particular benefits the little calves for a more uniform and vital calf herd.

Significantly higher digestibility of crude protein and amino acids of **HP 300** *in pre-weaned calves*

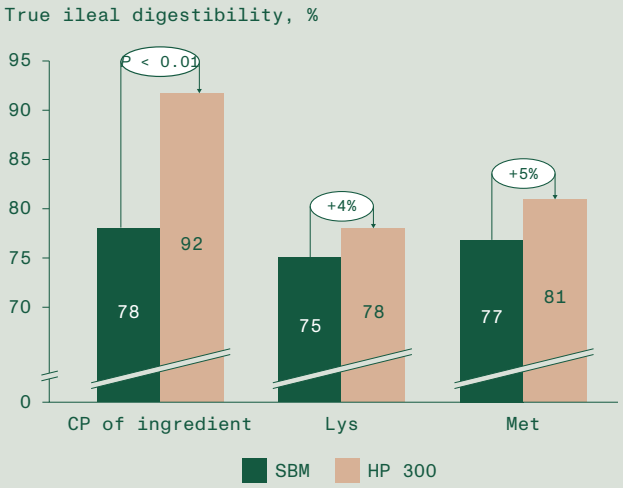


Figure 1. The true ileum crude protein digestibility in pre-weaned calves is significantly higher for HP 300 compared to SBM. The digestibility of individual amino acids was also higher than SBM.

Calves have significantly cleaner hindquarters and firmer feces two weeks post weaning when **HP 300** *is fed in starter feed compared to SBM*

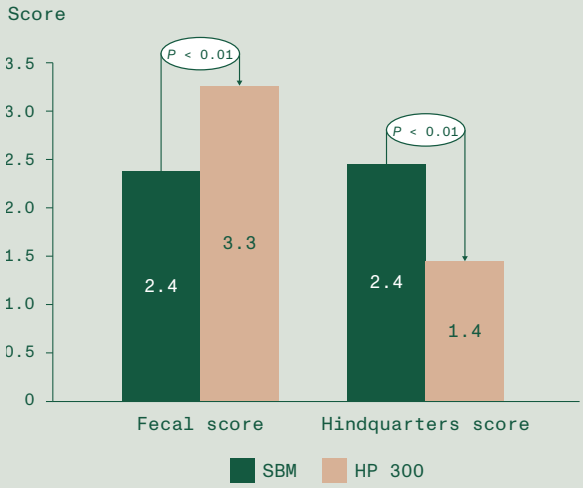


Figure 2. Feces was firmer (1, liquid – 5, hard) and the hindquarters were cleaner (1, clean – 4, dirty) two weeks post weaning when HP 300 was fed in starter feed to calves.

Benefits

- ✓ More uniform calf herd
- ✓ Clean calves with more firm feces
- ✓ 2 kg heavier carcass weight
- ✓ 1000 g weight gain at weaning

Product description

HP 300 is a specialty soy protein for young calf pre-starter feed suitable for ad libitum feeding from day 2 until 10 weeks of age.

Product features

- ✓ In vivo ileum digestibility is 92%
- ✓ Low content of anti-nutritional factors
- ✓ Also available as non-GM

Recommended use

The pre-starter is balanced with other ingredients to meet requirements for energy and nutrients.

- 15 – 20% inclusion of HP 300 in pre-starters, partially replacing other protein ingredients.
- Important to ensure sufficient energy (≥ 11.5 MJ ME) in the final feed for max protein utilization.

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Healthy Animals - Healthy Business
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