

# *Boost feed intake for challenged piglets*

Early weaned and light-weight piglets have some catching up to do.

**HP 800 Booster** from HAMLET PROTEIN is a gentle soya-yeast supplement for piglet feed – developed specially to boost feed intake of challenged piglets for faster, naturally healthy growth.

Increasing litter sizes and the subsequent decline in average birth weights add to greater weaning weight variation which increases the need for a quality feed ingredient that encourages feed intake and supports naturally healthy growth of the smallest piglets. **HP 800 Booster** from HAMLET PROTEIN has been developed to meet this specific need.

Produced by co-processing soya and yeast, **HP 800 Booster** has shown good results when fed to nursery piglets. **HP 800 Booster** has been found a cost-efficient alternative to blood plasma during a feeding trial performed at Leuven University in Belgium. By the end of the trial, the piglets fed **HP 800 Booster** were also more uniform in weight. Danish pig producers have experienced similar results when using **HP 800 Booster** to replace fishmeal.

Another feeding trial performed at the University of Arkansas, USA has confirmed that the addition of **HP 800 Booster** to piglet feed already containing blood plasma improves feed intake. This results in lower costs compared to more complex nursery diets with fishmeal, higher levels of plasma and a higher lactose content.

## Product application

**HP 800 Booster** is an ingredient for creep feed (phase I) targeted at challenged piglets aged 2-5 weeks (4-10kg).

### Product features

- 10% yeast components
  - Yeast cell walls (mannan-oligosaccharides/ MOS and  $\beta$ -glucans)
  - Yeast extracts (nucleotides and metabolites)
- Low content of anti-nutritional factors (trypsin inhibitors, antigens and flatulent oligosaccharides)
- High nutrient digestibility

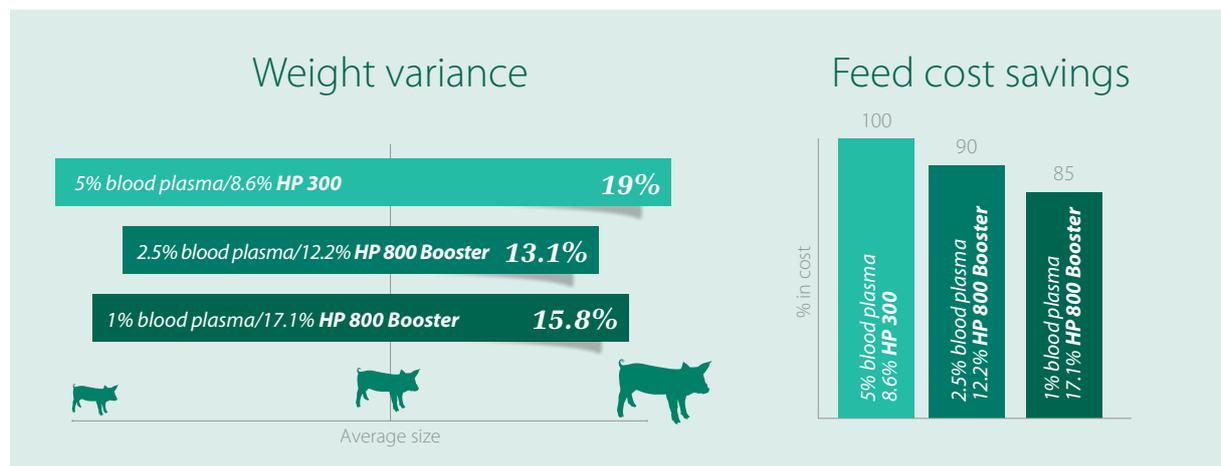
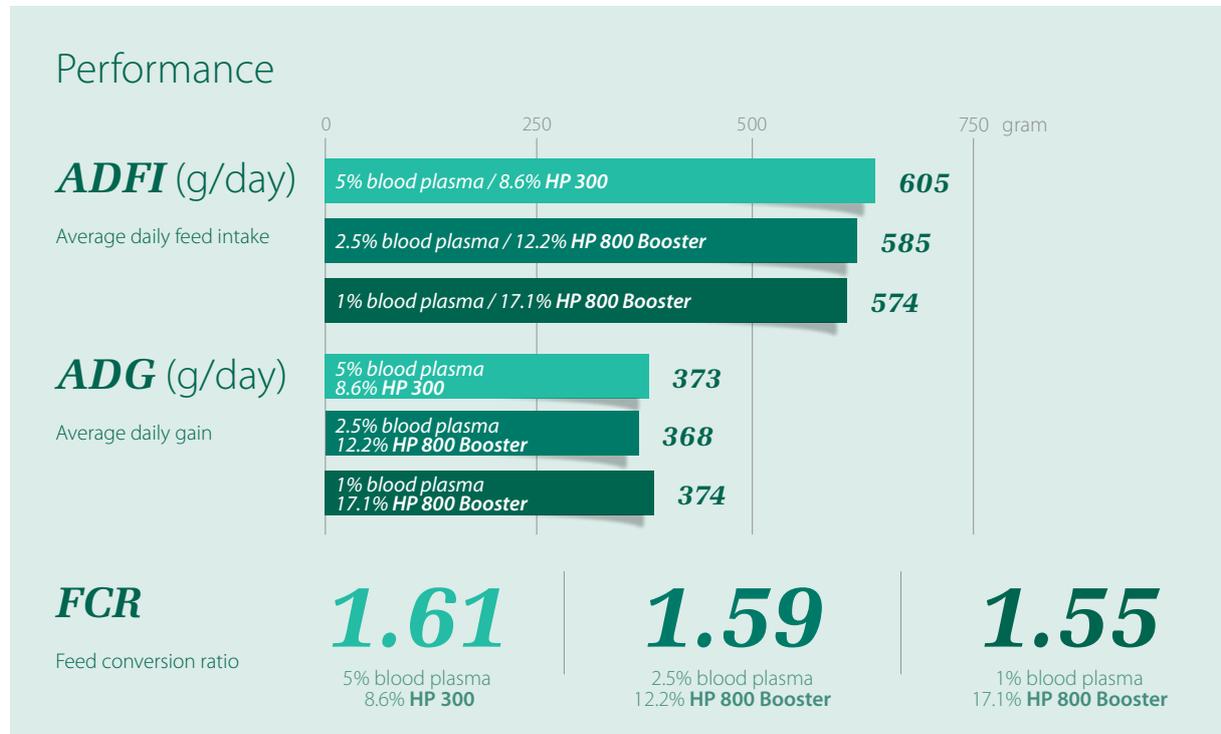
### Product benefits

- Stimulates feed intake
- Improves weight uniformity
- Feed cost savings

## Trial at Leuven University, Belgium confirms similar performance and feed cost savings compared to blood plasma

Blood plasma and fishmeal are widely regarded as the best sources of protein for improving feed intake of weaned piglets. But their high price is a major drawback. A feeding trial at Leuven University in Belgium put **HP 800 Booster** to the test as an alternative to blood plasma.

The findings have revealed similar performance and up to 15% feed cost savings when **HP 800 Booster** is introduced to piglet diets. By the end of the trial, the piglets were also more uniform in weight.



Starting at the age of 18 days, 160 weaned piglets received one of the following three diets for 22 days:

- Control – containing 5% blood plasma, 8.6% **HP 300**
- **HP 800 Booster 1** – containing 2.5% blood plasma, 12.2% **HP 800 Booster**
- **HP 800 Booster 2** – containing 1% blood plasma, 17.1% **HP 800 Booster**

They were then fed the same diet for 23 days.

Although feed intake was slightly lower with the **HP 800 Booster** diets than with the positive control containing 5% blood plasma, little difference was recorded in average daily weight gain – evidence that **HP 800 Booster** has an improved feed conversion ratio. Weight variance was reduced from 19% with the control to 13.1% and 15.8% with **HP 800 Booster 1** and **HP 800 Booster 2** respectively.

# Trial at University of Arkansas Animal Science Research Farm, US confirms high feed intake and cost savings

**HP 800 Booster** increased feed intake and gave a long-lasting improvement in average daily weight gain in a study of 238 weaned piglets at the University of Arkansas Animal Science Research Farm in the US<sup>1</sup>.

Even when **HP 800 Booster** was no longer included in the diet, the study found that piglets fed the supplement at an earlier stage continued to gain more in weight.

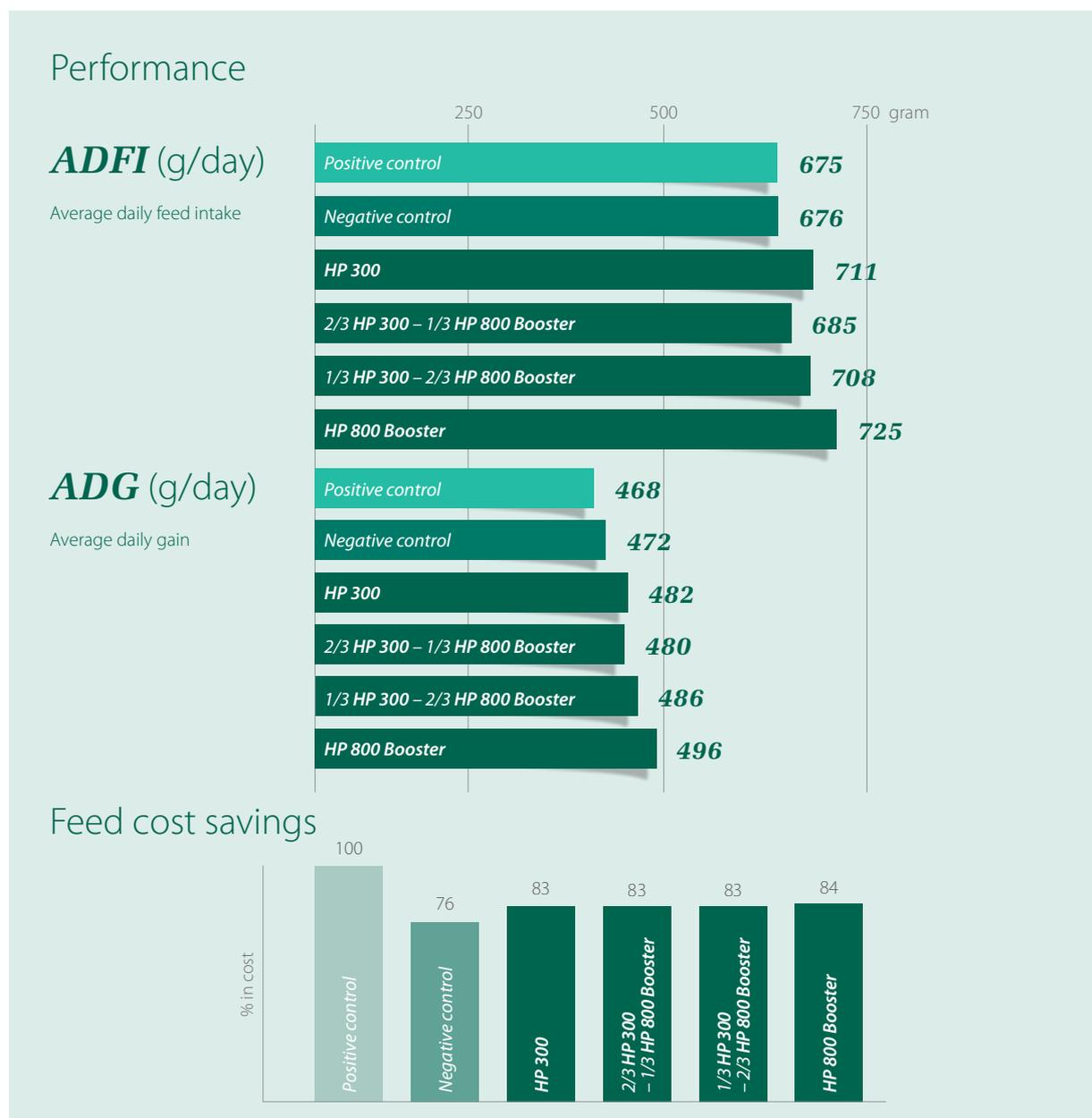
In the three-phase study, the university team demonstrated that feed intake increased with increasing doses of **HP 800 Booster**. Diets were formulated with 20% **HP 300** from HAMLET PROTEIN and then to compare that with diets containing increasing amounts of **HP 800 Booster**. Piglets fed **HP 800 Booster** outperformed those fed both the positive and negative control diet<sup>2</sup>. During the first and second phase, the majority of the soya bean meal in the negative control diet was replaced with 20% and 15% of **HP 800 Booster** and/or **HP 300**, respectively. All piglets were fed a common diet in phase three.

The results show that **HP 800 Booster** improved feed intake by 7% during the 37-day study compared to the negative control. At the same time, piglets fed **HP 800 Booster** weighed 0.9kg more than those fed the moderately complex positive control diet. Diets containing **HP 300** also gave a better performance than the controls. Overall, the study revealed opportunities for feed cost savings of 16-17% (Based on US prices 04/2013, weighted average phase one and two).

1) Journal of Animal Science., 2013, 91, E-Suppl. 2:TH 317: Effect of diet complexity and an enzyme-treated soy protein plus yeast on performance in weaning pigs.

2) Positive control diet: Soya bean meal 48%, **whey, plasma, fish meal**. (The diet is primarily based on ingredients in bold).

Negative control diet: **Soya bean meal 48%**, whey, plasma. (The diet is primarily based on ingredients in bold)



## Experiences from Danish pig producers

### Uniform piglets

With a production of 30,000 piglets a year, the Danish multiplier herd, Kollund Øst, does not willingly experiment with its feed due to the risk of upsetting the balance in its well-functioning multiplier herd. But, when the Danish farm looked around for a fishmeal alternative, **HP 800 Booster** was an exception. Today it is a key ingredient in the farm's weaner feed, bringing annual cost savings of EUR 6,700. The gilts thrive, are uniform and healthy and grow as well as ever.



### No diarrhoea

The Danish pig farm Lerbjerggård has in total 1,300 sows, which produce 40,000 30kg piglets. Mortality is 1.5% from 5-30kg piglets, daily gain is 450-520g/day and feed conversion is 1.8kg feed/kg gain. The farm has a very low medicine consumption. It is ¼ of the average in Denmark. Medication only takes place at the individual animal or pen level. Due to the fact that the farm had some very large week batches in the sow production – which meant weaning very small piglets around 4.5-5kg – **HP 800 Booster** was introduced. After app. 14 days the staff reported that feed conversion was improved and that there was no diarrhoea at all in the period.



## Nutritional dialogue

Our technical and nutritional advisory service is a core element in our business philosophy – available to you as our customer either directly or through our international network of competent distributors.

Feel free to contact us for formulation suggestions to meet your specific needs.

To find your nearest distributor, see our updated distributor list at [www.hamletprotein.com](http://www.hamletprotein.com)

Alternatively contact us directly. We are always ready to answer your questions.

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