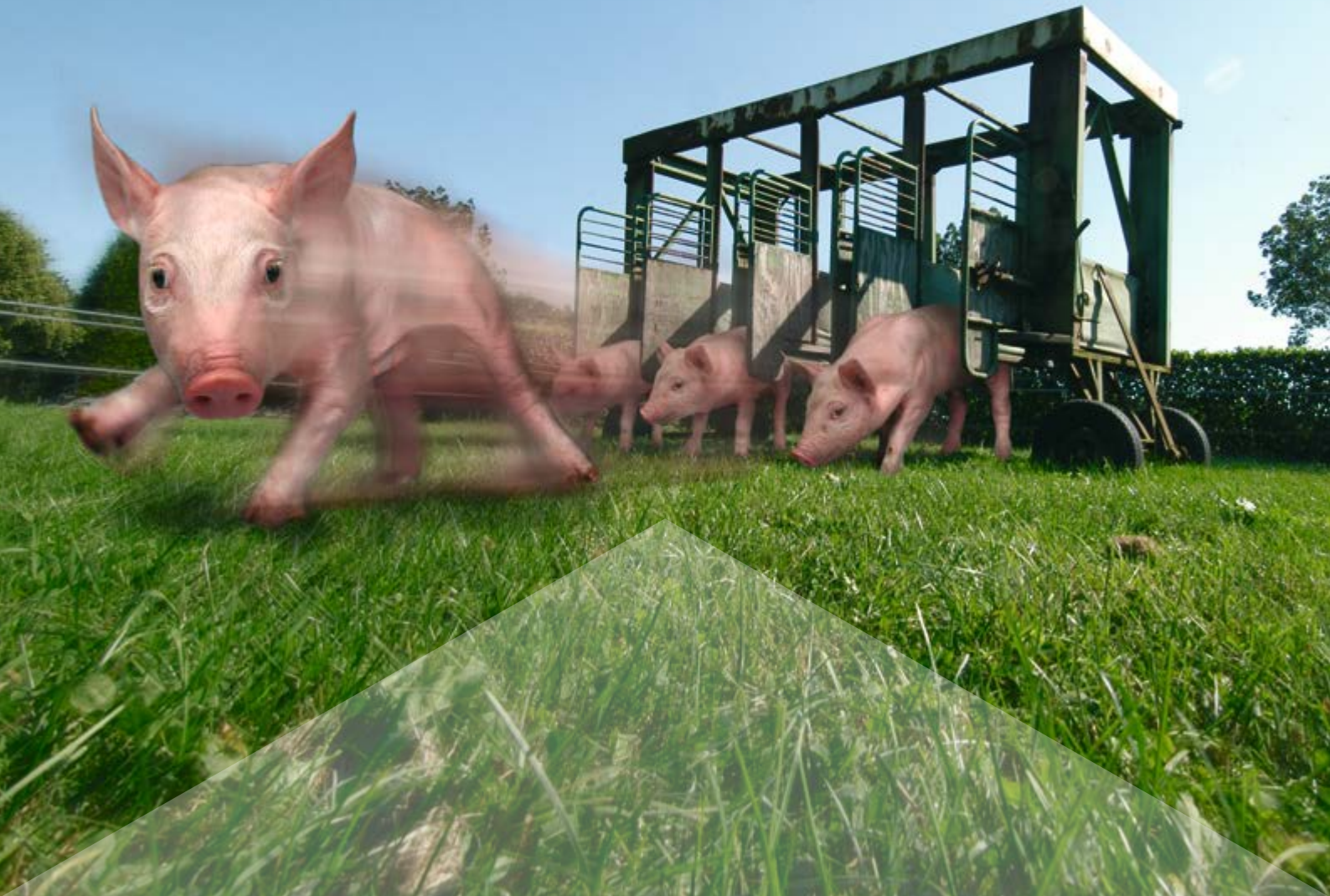


PROGLOBULIN



A HEAD START WITH PROGLOBULIN LOW ASH PLASMA

The European Union has taken the decision in 2005 to allow again the use of porcine plasma proteins in diets of piglets. The timing for this re-introduction was excellent as the European Union has also banned the preventive use of antibiotics in piglet diets. Based upon extensive scientific and practical trials in Europe, North America and Asia it has been concluded that plasma proteins are the most effective natural alternatives for feed antibiotics in terms of animal health (less diarrhoea) and technical performance (Average Daily Feed Intake, Average Daily Gain and Feed to Gain ratio). Sonac produces porcine plasma proteins under the brand name Proglobulin.

Natural Ingredients. Smart Solutions.

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DARLING
INGREDIENTS

Production of Proglobulin is done in Germany and in Poland with blood from healthy animals at ante-mortem inspection by the official veterinarian. The plasma proteins are processed in such a way that the bio-active components remain functional and that handling of the powder is convenient (agglomeration).

VIRAL SAFETY AND LEGISLATION

Being animal proteins, the safety of plasma proteins is sometimes questioned mainly because of potential viral contamination. Again, we have to state that only blood from healthy animals is collected. Further, the successive process steps in our production plants guarantee adequate inactivation of viruses. Sonac has done trials with research institutes to prove this.

APPLICATION PROGLOBULIN

Proglobulin is a high quality spray dried plasma protein. It is an excellent protein source in diets for piglets in the period around weaning. After weaning a high feed intake is essential for health and daily gain. When feed intake after weaning is too low, there will be a considerable reduction in small intestinal villus length, causing a reduction in the digestive and absorptive capacity of the gut. So when feed intake is higher, there will be less damage of the villi, which leads to a better health and daily gain after weaning. Numerous tests indicate that piglets prefer diets containing plasma proteins over diets containing other high quality ingredients like skimmed milk powder, whey proteins concentrated fishmeal and specialty soy products. This explains a higher feed intake when piglet diets contain Proglobulin.

A meta-analysis of 75 published scientific studies comparing diets containing plasma protein with control diets without plasma protein, shows that the improvement for ADG and ADFI is respectively 28% and 25% (Figure 1).

Experiments with plasma proteins have also shown an improvement in piglet health after weaning. The high content of bio-active components, like immunoglobulins, further supports the positive effects on piglets. Typically, plasma proteins are used for the first 14 days after weaning at a dosage of 3% to 5%.

Sonac is a leading manufacturer of reliable ingredients of animal origin. With an active R&D program, reliable processes and sustainable end products Sonac continuously adjusts to market needs. A good geographical spread of locations and a broad portfolio of fats, proteins, minerals and specialties make Sonac a trusted partner for many international producers in food, pet food, feed and fertilizers, worldwide. Sonac is part of Darling Ingredients.

For more information about this specialty product please contact us:

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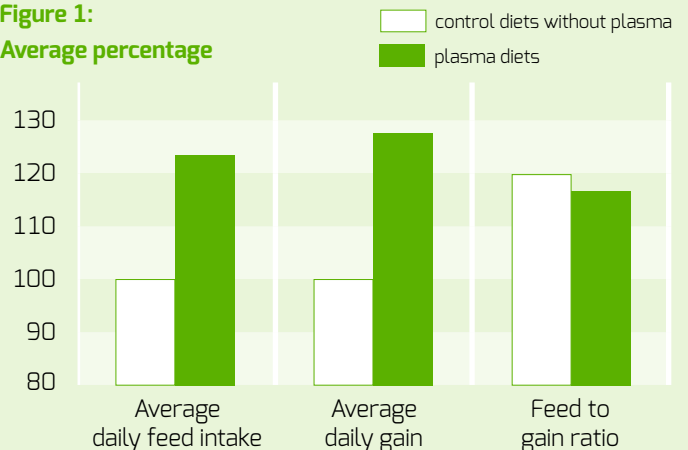


THE ADVANTAGES OF PROGLOBULIN:

- daily feed intake after weaning increases with > 25%
- average daily gain after weaning increases with > 25%
- less diarrhoea problems
- high content of immunoglobulins
- high protein (80%), low sodium content
- agglomerated for easier handling
- proven alternative for feed antibiotics
- reduction of pre weaning mortality

Figure 1:

Average percentage



Average percentage of plasma protein-induced improvement derived from 75 control-plasma (protein) comparisons in the first 2 weeks after weaning.



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