

FOR IMMEDIATE RELEASE

## **New Studies Have Shown PepSoyGen® to be a Safe, Reliable, & Consistent Protein Source for Piglet Diets**

### **PepSoyGen can Effectively Replace Animal-Based and Other Proteins**

N. SIOUX CITY, SD – March 7, 2014 – Two recent studies at Kansas State University and the University of Kentucky have shown that various high-quality animal protein sources can be effectively substituted with PepSoyGen in piglet diets. PepSoyGen is an all-natural functional soy-protein ingredient from solid-state fermentation technology. In the studies, piglets fed PepSoyGen showed growth characteristics similar to the piglets fed animal proteins. In some instances, PepSoyGen-fed pigs had improved growth traits compared to those piglets fed animal proteins.

Protein sources from animal origin are typically utilized for their increased digestibility, palatability, and optimal amino acid profile. Increasing concerns regarding feed and food safety have raised anxieties around feeding animal proteins. Additionally, most lower-priced animal proteins have shown lower digestibility and variable quality, which contribute to variable animal performance.

According to Dr. Jason Sewell, Nutraferma nutritionist, “providing young animals with a high-quality protein source is necessary for improved growth and health. Animal protein sources and fishmeal have historically been the first choice for piglet diets, but new developments in fermentation technology now give producers a non-animal protein option without sacrificing performance. PepSoyGen is a high-quality and consistent alternative.”

While cost effective, vegetable proteins such as soybean meal have not historically been used because high levels of anti-nutritional factors limit their inclusion rate in young animal diets. Advances in fermentation technology have been shown to reduce or eliminate these anti-nutritional factors and improve the nutrient profile of soy. The solid-state fermentation of PepSoyGen has shown to substantially reduce or eliminate raffinose, stachyose and trypsin inhibitor that are native to conventional soybean meal.

PepSoyGen’s manufacturing process hydrolyzes the protein, creating small peptides that are easier to digest. Patented microbes *Aspergillus oryzae* and *Bacillus subtilis* remain viable in the final product and can contribute to overall health and productivity. In another study at the University of Illinois, the research team was also able to show that the solid-state fermentation process of PepSoyGen enhances the total tract phosphorus digestibility.

PepSoyGen may be an economical replacement for animal based proteins in today’s market. Research has shown that replacing animal proteins with PepSoyGen has no significant impact on piglet performance in phase 2 and 3 nursery diets. Research has also shown that PepSoyGen is a safe, reliable and consistent protein source for young animal diets. PepSoyGen is produced with

a GMP+ certified process, demonstrating that Nutraferma has achieved a very high standard for feed safety and quality.

Contact Nutraferma for research data.

About Nutraferma:

Nutraferma<sup>®</sup> is an innovative biotech solutions company that utilizes a cutting edge solid-state fermentation process to produce high-value proteins, microbials, and enzymes. Nutraferma's extensive research work has also produced state-of-the-art yeast products, bioactive peptides and phytogetic additives. Headquartered in South Dakota, Nutraferma has manufacturing and R&D facilities in South Dakota (USA) and Korea.

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