# **TOTAL NUTRITION**<sup>™</sup> SAFE = HEALTHY = EFFICIENT

Through **TOTAL NUTRITION™**, Kemin offers a range of nutritional solutions for raising healthy animals. Kemin understands you need to raise healthy livestock that gives consumers the nutritional and health benefits they are looking for, while also returning a profit. We focus our products and services to help you achieve:

- Safe Solutions
- Healthy Solutions
- Efficient Solutions

Our Total Nutrition solutions can help you feed the world.

WWW.KEMIN.COM/CLOSTAT 1-800-752-2864





# BALANCED— FROM THE INSIDE OUT CLOSTAT<sup>®</sup> Active Microbial

For ideal gastrointestinal balance.





HEALTHY SOLUTIONS TOTAL NUTRITION



**CLOSTAT** contains a proprietary, patented strain of *Bacillus subtilis*, PB6. PB6 is a unique, naturally occurring spore-forming microorganism. Kemin identified and selected the specific strain of PB6 because it secretes an active substance that helps maintain the balance of microflora in the intestinal tract of poultry and livestock.

## **Stressors affect eubiosis**

The intestinal tract of healthy swine contains a great number of different microorganisms whose balance promotes digestion, absorption of nutrients and overall health of the gut. These microorganisms are both beneficial bacteria, such as Lactobacillus and Bifidobacterium spp., and pathogenic bacteria, such as Escherichia coli, Salmonella and Clostridium spp. Under normal circumstances, there is equilibrium between the beneficial and the pathogenic bacteria called eubiosis.

Sows are subjected to many stressors during their reproductive life cycle of breeding, gestation, farrowing and lactation. During these phases, different housing, management and feeding conditions affect the gut microflora balance. The result may be decreased maternal performance, reproductive inefficiency and increased morbidity and mortality of nursing piglets.



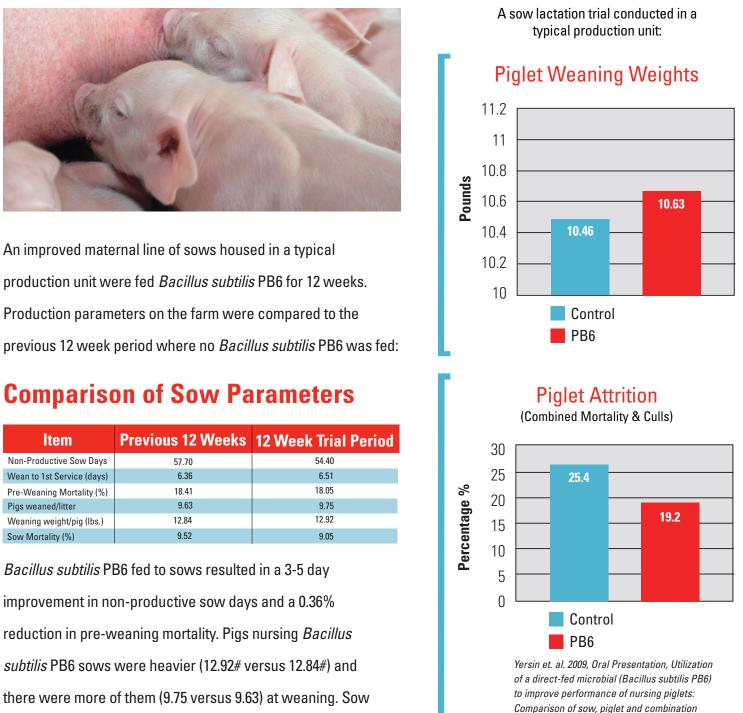
## Features

- Contains PB6, a unique strain of Bacillus subtilis.
- Stable during processing and packaging, when blended with other feed ingredients, and under normal commercial pelleting conditions.
- Proven efficacy in research studies.
- An active microbial from Kemin.

### **Benefits**

- CLOSTAT, formulated with PB6, provides consistent performance and value.
- Easily mixed into swine diets to ensure that the proper dose is delivered through the feed to the animal
- Contributes to stable and healthy microflora in the gut.





Item	Previous 12 Weeks	12 Week Trial Pe
Non-Productive Sow Days	57.70	54.40
Wean to 1st Service (days)	6.36	6.51
Pre-Weaning Mortality (%)	18.41	18.05
Pigs weaned/litter	9.63	9.75
Weaning weight/pig (lbs.)	12.84	12.92
Sow Mortality (%)	9.52	9.05

mortality also decreased from 9.52 to 9.05%. TI - 10-00043

treatment regimens. American Association of

Swine Veterinarians Annual Meeting