

Research has proven that digestSTART™:

- is a stable product, including in pelleted feed
- is convenient and easy to use
- can be an effective alternative to lower strength antibiotics, resulting in greater economic benefits

Summary of European Trials with Direct-fed Microbials in Nursery Pigs

Number of animals.....	5,870
Number of trials.....	20
Average trial length (days).....	31
Performance improvements (%)	
Average daily gain.....	9.9
Feed efficiency.....	4.6

Source: Chr Hansen, Inc.

**STORAGE**

Store in a cool, dry area for maximum stability. Avoid leaving bag open for extended periods of time. This product is intended as a stabilized source of Bacillus licheniformis and Bacillus subtilis only. Buyer assumes all responsibility for use, storage and handling of this product. Supplier makes no other claim or warranties, expressed or implied.

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1-800-798-9204



**VIABLE  
MICROBIAL  
SUPPLEMENT  
FOR USE IN  
SWINE FEEDS**

**FEEDING DIRECTIONS**

Add digestSTART to complete swine feed at a rate of 1 kg per tonne as needed. Suitable for pigs of all ages, including sows.

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**START YOUR FUTURE NOW WITH OUR  
RESEARCH-PROVEN PRODUCTS – EACH ONE  
TARGETED TO PROVIDE A SPECIFIC SOLUTION.**



## Increases feed intake and improves digestion

### Effects of Direct-fed Microbial on Performance and Health Status of Sows

	Control (n=30)	Direct-fed Microbial (n=32)	Difference (%)
Daily weight gain (kg)	-0.518	-0.434	+16
Feed consumption per lactation day (kg)	4.0	4.1	+2.5
Piglets/sow	11.3	11.6	+2.7
Breeding losses (%)	20.8	14.3	-31
No. of days with diarrhea (litter) (%)	3.1	1.7	-45

Source: Forschungs- und Studienzentrum für Veredelungswirtschaft Wester, Germany 1995. The use of a direct-fed microbial had an effective influence on preventing weight loss in sows during the suckling and weaning period and a direct-fed microbial also contributed to a better health of the piglets that were born.

### HOW digestSTART WORKS

digestSTART works to attract pathogen bacteria, viruses and toxins and then eliminates them directly out of the pig before they have an opportunity to attach themselves to the pig's gut wall. It also helps increase the population of beneficial bacteria in the gut while competitively excluding the harmful bacteria.

Researchers report that when animals are fed lactic acid bacteria, the activity of their immune system increases, and they are therefore less susceptible to disease.

#### Equivalent Performance to Conventional Growth Promotant

	Medication	digestSTART
Start weight (kg)	17.68	17.66
End weight (kg)	27.54	27.45
Average daily gain (g)	705	699
Average daily feed intake (g)	1331	1363
Feed conversion	1.89	1.95

Source: Kenpal Research Nursery, 2003

digestSTART produces enzymes that break down proteins and starches into smaller, more easily digested nutrients which the animal uses for growth. digestSTART may cause faster decomposition of manure, resulting in less odour and improved reduction of solids.

### WHEN TO USE digestSTART

It is recommended for use during periods of stress, such as weaning and hot weather, etc. digestSTART is suitable for pigs of all ages, including sows.

digestSTART can be used:

- in complete mash or pelleted feed
- in vitamin/mineral premixes
- in supplements
- in liquid feed systems
- with other Start products
- with medications

As pressures increase for producers to reduce or eliminate medications in their feeding programs, it is of utmost importance that our livestock be fed the safest, most natural ingredients possible.



***A swine feed additive developed specifically for use as a natural alternative to growth stimulating antibiotics. Its key ingredients are a natural sugar substance which cannot be digested in the intestine and a direct-fed microbial.***

Specifically formulated to:

- maximize average daily gain
- minimize feed conversion
- assist in feed digestion
- assist in maximizing animal performance

Research has shown that when fed to sows, there is a reduced pre-weaning mortality rate and an increase in the number of weaned piglets per litter.