

FAQs

CALSPORIN® direct-fed microbial



What is CALSPORIN®?

CALSPORIN® is a direct fed microbial (DFM) feed additive available in North America from Quality Technology International, Inc. (QTI). It has been tested in both university and commercial settings in swine. Research shows, that when fed as directed, CALSPORIN® improved body weight, average daily gain, feed conversion and influenced pathogen counts in fecal samples.

What is the active ingredient in CALSPORIN®?

CALSPORIN® contains the naturally occurring *Bacillus subtilis* strain of bacteria, labeled C-3102, which was discovered and patented by the Calpis Co, Ltd. (Tokyo, Japan). It was first marketed for livestock feed in 1986. *Bacillus subtilis* C-3102 is classified as a GRAS organism in the U.S.

What else is unique about the CALSPORIN® product?

The strain C-3102 is grown and harvested differently from the way other *Bacillus* microbials are produced today. As a result, the CALSPORIN® product contains a significantly greater percentage of the highly active strain. In the screening of 300 different species of bacteria, the C-3102 strain was found to be a more highly active strain than any other competitive *Bacillus* product currently on the market. QTI will be happy to discuss further these differences.

What is the recommended dosage of CALSPORIN® in swine?

QTI generally recommends that CALSPORIN® be mixed at a rate which will deliver 3×10^5 CFU per gram of feeds (300,000 CFU per gram of complete diet) for nursery pigs and grow-finish swine. Follow your feed/nutrition supplier's recommendations for best results.

How does this dosage compare to other *Bacillus* based microbial products?

Some *Bacillus* products have feeding recommendations of 1.0×10^6 or higher for their products. While they may recommend feeding a higher CFU count, this doesn't mean their product will perform better. The level of microbe activity is also important to measure. CALSPORIN®'s C-3102 strain was selected for its high level of activity; other *Bacillus* products try to make up for a lower level of microbe activity with a higher dose. Numerous studies have shown that CALSPORIN® performs optimally when fed at its recommended rate.

What concentration of CALSPORIN® are available in the market today?

CALSPORIN® is available in different concentrations to accommodate different user mixing and blending situations:

- 2.0B is 2 billion CFU/gram product mixed at the rate of 0.30 lb. per ton of diet.
- 1.0B is 1 billion CFU/gram product mixed at the rate of 0.60 lb. per ton of diet.
- It is also available in a highly concentrated form (BS3N) for use in premixes and base mixes.

In addition, a number of feed manufacturers and premix blenders offer nursery feeds and base/premixes with CALSPORIN® included. Ask your feed/nutrition company if they are providing CALSPORIN® in your swine diets.

Is CALSPORIN® a GMO product?

No. CALSPORIN® was developed from a naturally occurring strain of *B. subtilis* originally discovered while screening over 300 different species of bacteria. Strain C-3102 was isolated from soil samples found in Japan.

In what countries is CALSPORIN® approved for use?

CALSPORIN® is approved for use in the United States, Mexico, Japan, and Brazil as well as a number of other countries around the world. It is currently approved in the E.U. for use in nursery pigs.

What claims does CALSPORIN® make?

QTI cannot state any claims for CALSPORIN® in the U.S. as that would require an FDA NADA approval as a drug. However, CALSPORIN® has gone through extensive study and testing around the world under a variety of different conditions and growing situations in controlled validated studies. A number of these studies have been published in refereed scientific journals. In those research studies, CALSPORIN® improved average daily gain and feed efficiency. Studies also found CALSPORIN® reduced pathogen loads in live animals.

What are the typical improvements in performance that one might expect feeding CALSPORIN® to swine?

QTI will be happy to share published, refereed CALSPORIN® research trials. CALSPORIN® has shown performance improvements when fed alone or in combination with antibiotic growth promoters in both nursery and grow-finish diets.

How have you measured improvements in pathogen reduction and what have been some of the results?

QTI will be happy to share published, refereed CALSPORIN® research trials.

Is there any benefit to feeding CALSPORIN® to sows?

Yes. Research trials have shown that feeding CALSPORIN® to sows during lactation improves weaning weights and reduces preweaning mortality. Research trials have also shown a reduction of *Clostridia perfringens* in sow feces.

What type of economic payback might I expect if I used CALSPORIN®?

Results will vary depending on feed costs, herd health status and management; QTI will be happy to review and discuss your specific situation with you.

Can CALSPORIN® be used in both mash and pelleted feeds?

Yes. CALSPORIN® contains *Bacillus subtilis* C-3102 in its spore form and has been shown in research to withstand steam pelleting temperatures of 194 degrees Fahrenheit.

For further information, contact:

Quality Technology International, Inc.
1707 N. Randall Rd, Suite 300, Elgin, IL 60123
P: 847-531-9300
www.qtitechnology.com
calsporininfo@qtitech.com

PROVEN TECHNOLOGY
PERFORMANCE. HEALTH. FOOD SAFETY.

www.qtitechnology.com | 847-531-2819

© 2016 Quality Technology International, Inc.
1707 N. Randall Rd, Suite 300, Elgin, IL 60123 | 'CALSPORIN' is a registered trademark of Calpis Co., Ltd.
QTI FAQ 01-10/17



ANIMAL HEALTH & NUTRITION

CONTACT



Jay Clary

Sales & Marketing Manager - Broilers

(817) 821-6615

jclary@qtitech.com

Jim Bryte

Sales & Marketing Manager - Swine

(331) 588-6550

jbryte@qtitech.com

PROVEN TECHNOLOGY

PERFORMANCE. HEALTH. FOOD SAFETY.