



DSP-WS

DAWE'S SWINE PROBIOTIC

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DAWE'S SWINE PROBIOTIC – WATER SOLUBLE
A source of live (viable) naturally occurring microorganisms for swine

DSP-WS supplies:

- **6 million CFU per gram** of a mix of fifteen different live microorganisms cultured from the digestive tract of swine. (Lactobacillus acidophilus, L. casei, L. reuteri, L. bulgaricus, Bifidobacterium Thermophilum, B. bifidum, B. animalis, B. infantis, B. gallinarum, B. Longum, B. lactis, Enterococcus faecium, Bacillus subtilis, B. licheniformis, Streptococcus diacetylactis.
- **Antagonistic to pathogens.** Rapid growth, colonization ability and production of bacterial anti-metabolites (like VFA's) help them out compete and inhibit pathogens (competitive exclusion).
- **Enzyme & VFA production.** These bacteria produce enzymes (amylase, protease) that help digest nutrients and improve performance. Many also produce volatile fatty acids (VFA) like lactic acid, propionic acid and butyric acid that can discourage pathogens and provide energy.
- **Improved pig performance.** Improved pig weight, feed conversion and reduced mortality result from enzyme production, VFA production, and antagonism or exclusion of pathogens in the digestive tract.
- **Every two ounces of DSP-WS** will supplement 200 weaned baby pigs and up to 70, 150 pound growing pigs per day.

DIRECTIONS

- In drinking water: Mix fresh daily. Use non-chlorinated water if possible. Mix two ounces of DSP-WS per gallon of stock solution. Each 4 ounce scoop will make two gallons of solution. **Seal container after each use. Store in a cool, dry area.** For animal use only. Keep out of reach of children.
- It is our recommendation to start using DSP-WS at weaning, or before, and continue for 7-10 days. Also, following this initial treatment, DSP-WS should be used for 5-6 days per month or during times of stress or after antibiotic treatment. This will help reestablish a healthy microflora in the gut, because antibiotic treatments will kill beneficial bacteria as well as the targeted pathogens.
- **Additional recommendations for use of DSP-WS:** The water should be free of any antibacterial chemicals during the delivery period. This would include no chlorine, antibiotics, citric acid, copper sulfate, or quaternary ammonia products.