



KEM SAN® brand Liquid Antimicrobial



Water is the most essential nutrient of an animal's diet, but can easily be contaminated by pathogens that can compromise animal health and performance.

KEM SAN® brand Liquid Antimicrobial is a unique combination of organic acids balanced by their individual pKa's over an optimal pH range, to inhibit and control bacterial contamination of drinking water for poultry.

KEM SAN® brand Liquid Antimicrobial is approved and registered with the EPA, so it is safe for use in your operation. Registration is based upon extensive scientific studies showing that it can be used without posing unreasonable risks to people, animals, or the environment.

In today's regulatory environment, it is especially important to use products that fit with your compliance programs.

Features

- Blend of organic acids (Propionic, Acetic, Benzoic, Sorbic)
- Buffered to a pH of 4.7 - 5.7, which optimizes the effectiveness of chlorine, bacterial control and overall handling by farm personnel
- EPA registered (No. 8596-31)

Benefits

- Proven to inhibit and kill a broad spectrum of pathogenic bacteria in drinking water
- Reduces plant condemnations through clean water during live production
- Compliant with state and federal regulations
- Reduces and removes biofilm and mineral deposits, when applied between flocks

Application Guidelines:

Drinking Water Usage (during production)

- Use 1/3 fluid ounce per gallon of water under normal conditions. (To make stock solution use 1 part KEM SAN and 2 parts water, then meter at 1:128)

Line Cleanage Usage (between flocks)

- Use 1/2 fluid ounce per gallon of water to clean water lines. (To make stock solution use 1 part KEM SAN and 1 part water, then meter at 1:128)

*When cleaning water lines, a proper flushing method is required to avoid clogging

Recommended Use:

1. To sanitize drinking lines prior to placement of incoming flock.
2. To reduce pathogen load in drinking water at placement through the first 7-10 days.
3. For continued use under normal conditions or for intermittent use during periods of stress.
4. To reduce pathogen load in drinking water 48-72 hours prior to processing.



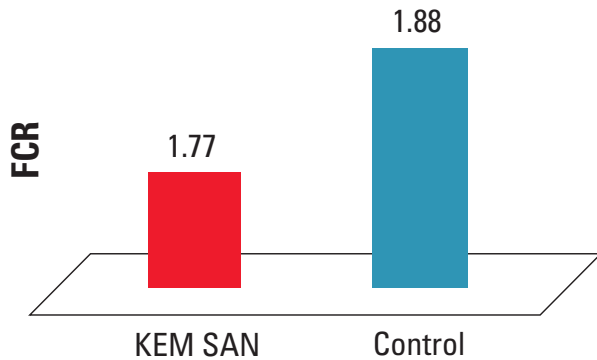


Trial Results:

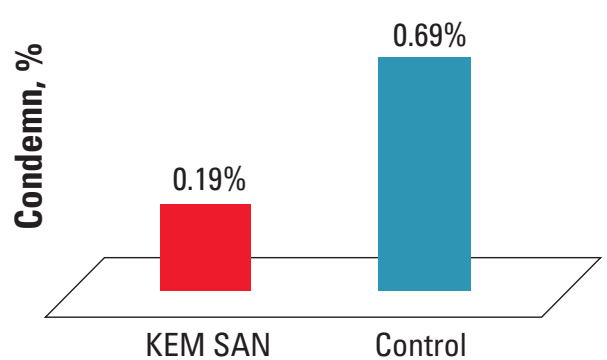
In commercial field trials, poultry that consume water treated with **KEM SAN® brand Liquid** have shown positive performance metrics and demonstrate that **KEM SAN® brand Liquid** can provide a measurable return on investment for poultry operations.

KEM SAN® brand Liquid has been proven highly effective against a wide variety of organisms. These include *E. coli*, *Salmonella*, *Staphylococcus*, *Pseudomonas* and *Clostridia* that are often the cause of economic problems in the field.

Improved Feed Conversion in Broilers



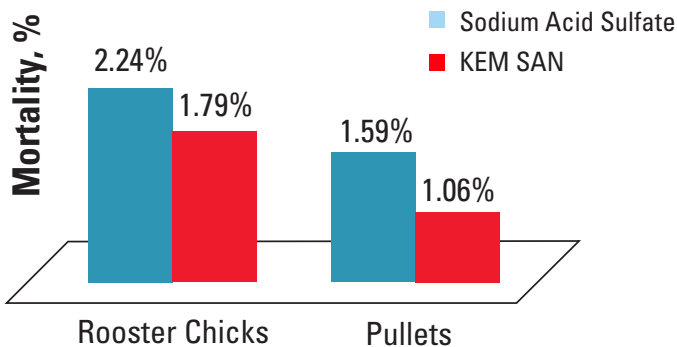
Reduced Condemnation in Broilers



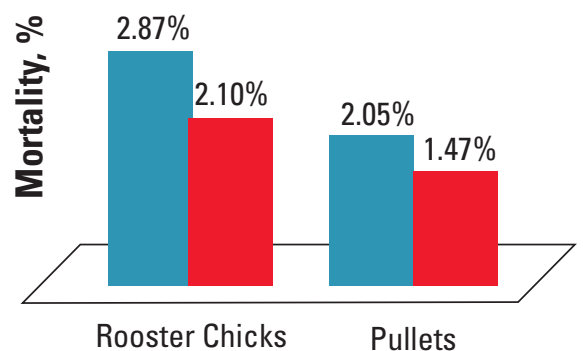
KEM SAN® brand Liquid was given at the recommended dosage throughout the growing period (Source: TL-11-00086)

Livability in Pullets & Rooster Chicks

14 Day Mortality



25 Day Mortality



KEM SAN® brand Liquid was given at the recommended dosage of 0.33 oz/gallon for the first 8 days. Sodium acid sulfate was given according to the manufacturer's recommendations for the first 8 days. All chicks received Oxytetracycline with both water sanitation programs for a 7-day treatment period. (Source: BB-06-00046)

Packaging and Conditioning:

This product is available in 50 lb. pails, 450 lb. drums, 2,000 lb. totes and bulk packaging. Product should be stored in a warm, dry place above 40° Fahrenheit to prevent freezing.

Please contact your Kemlin representative for personalized support.

