

The Effect of Hydrite PAA Treatments on the Populations of Non-Pathogenic *Escherichia Coli* Surrogates on Pig Carcasses

Overview

Study was conducted to test the effect of Hydrite Hydrishield PA 15 HP treatments on non-pathogenic *E. coli* surrogate inoculum on pig carcasses.

Methods

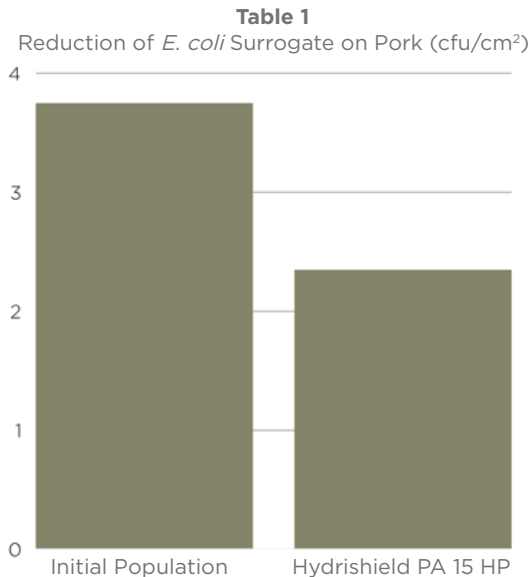
Five strains of non-pathogenic *E. coli* surrogates were surface inoculated onto jowls of pork carcasses to obtain an initial population of approximately 10⁴ colony forming units (CFU)/cm². The inoculum was allowed to attach for 10 minutes at ambient temperature.

The inoculated jowls were sprayed with 400 ppm Hydrishield PA 15 HP using a low-pressure sprayer with sufficient volume to assure entire surface coverage. The experiment was independently replicated three times.

Samples were excised and analyzed immediately after treatment and tested using standard methods of selectivity and recovery of injured bacteria.

Results

Hydrite Hydrishield PA 15 HP reduced the *E.coli* population by an average of 1.32 logs (Table 1).



Research conducted at Iowa State University under the direction of Dr. James Dickson, Professor, Department of Animal Science. Full study available upon request.

Benefits Of Using PAA

Effective against
broad spectrum
of microorganisms



No toxic
byproducts



Controls
odors



Sustainable
and safe
decomposition



Non-foaming



Easy to use



Operates over a
wide temperature
and pH range



Hydrite Advantage

Chemical Experts

Our team is experienced and dedicated to providing technical support and services that help maximize efficiency and profitability all while maintaining or enhancing the quality of your end-product. Partner with Hydrite to see how our people make the difference.

Customized Programs

Every plant is unique and we understand that. We customize a solution for each location and application. Contact us today to learn more about our quality products, services, technology, and solutions.

Quality Focus

We understand how important it is to protect your brand and maintain the trust your customers place in you. Let us help you by delivering a quality solution at the most efficient cost.

Customer Service

At Hydrite, we form partnerships with our customers and provide them with the best possible and most efficient operational solution. Contact us today to see how we are different.

Supportive Approach

We feature a variety of creative solutions designed to lower operating costs, improve efficiency, and help you protect your brand. Join the many satisfied Hydrite customers that have experienced the Hydrite Advantage.



Providing Creative Solutions

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