

create a safe & healthy microflora in your barn

# PIP

PROBIOTICS  
IN PROGRESS

## ANIMAL HOUSING CLEANERS

### THE PROBLEM

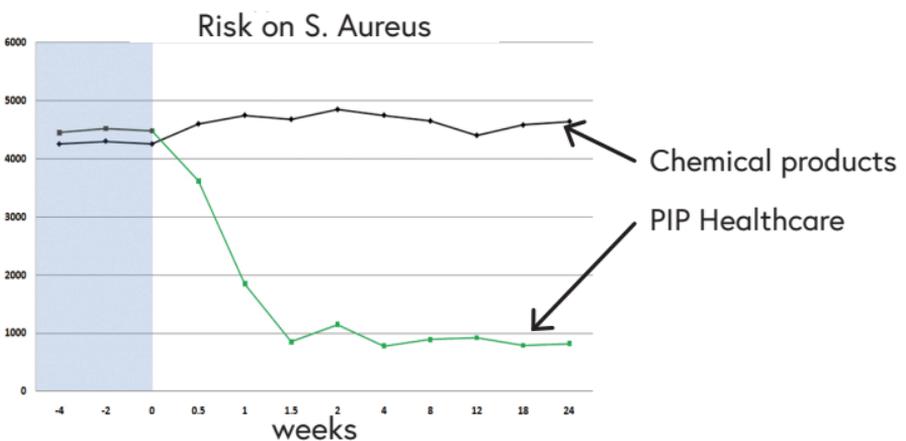
Antimicrobials, disinfectants, bleach and sanitizers do not differentiate between harmful and beneficial microbes— they target them all. The pathogens that survive are continually being made more resistant and are becoming the dominant microbes. Toxic chemicals, antimicrobials and the continual inhalation of ammonia, can suppress animal's natural immune function, creating a greater susceptibility to disease, respiratory issues, poor growth and reduced profits.



### THE SOLUTION

Create & sustain a population of healthy microbes in the barn environment throughout the production cycle. Microbial management is the concept on which Chrisal's products are based - soap and spray products contain probiotic bacteria which continually out-compete pathogens for food & space. Without a food source & lack of space to colonize in pathogens are unable to survive and the probiotic bacteria become dominant. Routine application of PIP products reduces pathogens, continually removes biofilm, and decreases ammonia levels. By improving the barn environment, you've improved your animal's immune function, health, growth rates and your profits.

Long term study showing typical decrease in pathogens when using PIP cleaners



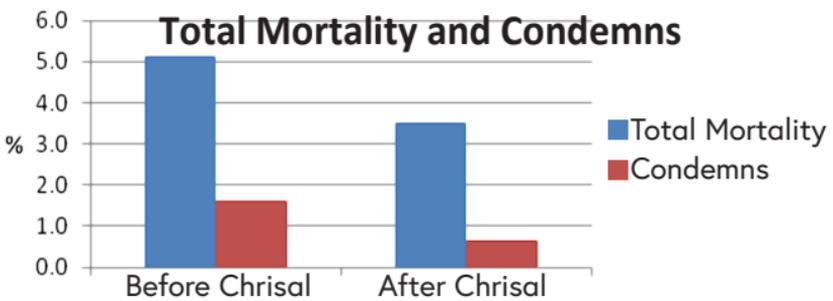
“My primary focus was to decrease pathogen load in my barn and water lines. After using Chrisal® PIP probiotic cleaning products and comparing before and after cycle data , my mortality and condemn rates are lower, barn conditions are cleaner, and bacterial testing validated a drop in pathogen loads.” - *Sweetbriar Farms*



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ANIMAL HOUSING CLEANERS

Chemical Cleaning	30 minutes after disinfection	7 hours after disinfection
<b>S aureus</b>	54.50 cfu/100 cm <sup>2</sup>	97.95 cfu/100 cm <sup>2</sup>
<b>E. coli</b>	9.41 cfu/100 cm <sup>2</sup>	23.01 cfu/100 cm <sup>2</sup>
Chrisal Cleaning	6 hours before cleaning	7 hours after cleaning
<b>S aureus</b>	30.50 cfu/100 cm <sup>2</sup>	14.70 cfu/100 cm <sup>2</sup>
<b>E. coli</b>	11.16 cfu/100 cm <sup>2</sup>	4.60 cfu/100 cm <sup>2</sup>

Hospital study from the University of Ferrara 2012-2013



Study from 100+ poultry farms in Switzerland 2012-2013

“As a fairly large broiler chicken operation, we find cleanliness to be a vital part of our day to day strategy for the upkeep of the health of our birds...Chrisal® PIP is the best product that we have used for cleaning the barns, not only is it very effective, but we love that it is safe to use for the humans. We find it to be fantastic to remove the biofilm on floors, walls, and equipment. We have found it more productive to put the emphasis on cleaning the barn, as opposed to disinfecting it.”

*H. van den Bosch, Old Gate Farm*



## PIP ANIMAL HOUSING CLEANERS



### Water Plus



Water line treatment to remove biofilm from water pipes and tanks

### Animal Housing Stabilizer

Probiotic spray for misting over animals, bedding & equipment

### Animal Housing Cleaner

Safe, powerful detergent for cleaning all animal facilities

*PIP products are suitable for all animals  
and safe for humans, animals, nature.*

[www.choiceprobiotics.com](http://www.choiceprobiotics.com)