



PROBIOTICS IN PROGRESS ANIMAL HOUSING CLEANERS

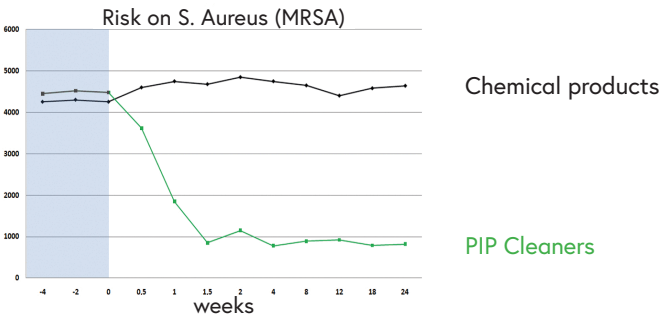
Chrisal Using probiotic bacteria to create a safe and healthy environment

A decade of study and use in Europe confirms PIP's ability to significantly reduce pathogens for prolonged periods without harming animals or the environment.

Chemical Cleaning	30 minutes after disinfection	7 hours after disinfection
E. coli	9.41 cfu/100 cm ²	23.01 cfu/100 cm ²
Chrisal Cleaning	6 hours before cleaning	7 hours after cleaning
E. coli	11.16 cfu/100 cm ²	4.60 cfu/100 cm ²



Applying AHS in calf pens helps reduce the risk of infections



WHAT MAKES PIP EFFECTIVE WITHOUT BEING TOXIC?

1.) COMPETITIVE EXCLUSION

The probiotic bacteria dominate available space & food - leaving minimal resources for pathogens.

2.) QUORUM SENSING

The probiotic bacteria send out Q.S. signals causing all bacteria to suspend reproduction - including the pathogens.

3) BIOFILM REMOVAL

Probiotic bacteria continually breakdown and consume biofilms, leaving the pathogens exposed to competitive exclusion & quorum sensing.

PROBIOTICS IN PROGRESS

ANIMAL HOUSING CLEANERS

THE PROBLEM

Disinfectants, bleach, and other toxic chemicals have a very short window of effectiveness - usually only minutes. They do not differentiate between harmful and beneficial bacteria and target them all. The harmful bacteria that survive disinfectants become more chemically resistant which transfers into an increased resistance to antibiotics. Unchecked biofilms continually redistribute pathogens into the barn, onto bedding and equipment. Toxic chemicals, ammonia and the continual presence of pathogens can continually weaken an animal's immune function.



THE SOLUTION

European producers are using PIP probiotic cleaners to create and sustain a population of healthy bacteria in their barns during growth and production cycles. PIP soaps and sprays contain probiotic (beneficial) bacteria that continuously out-compete pathogens for food and space. Without these resources, the harmful bacteria are unable to survive, and the probiotic bacteria become dominant. Routine application of PIP products not only reduces pathogens, but also removes biofilms, decreases odours and ammonia. PIP helps you be proactive in maintaining a high level of animal health by reducing the risk of infection, and decreasing the use of antibiotics and toxic chemicals.

PROBIOTICS IN PROGRESS

ANIMAL HOUSING CLEANERS

 Chrisal



PIP WATER PLUS (W+) is a probiotic water treatment used to control biofilm buildup in water lines & tanks.



PIP ANIMAL HOUSING STABILIZER (AHS) is a probiotic spray that is misted over animals, bedding, stalls, and equipment, placing probiotic bacteria on all surfaces.



PIP ANIMAL HOUSING CLEANER (AHC) is a powerful, non-corrosive detergent that removes dirt and biofilms from floors, walls and equipment, leaving a layer of probiotic bacteria on surfaces, even after rinsing.

PIP products are safe to use with animals & people present.

Learn more at www.choiceprobiotics.com