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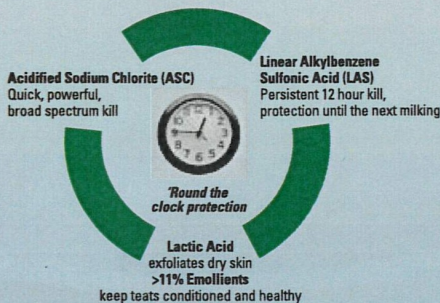


Valiant[®] Pre

Your First Step in Protection
Against Environmental Mastitis



Valiant[®] Triple Protection



The Value of Pre-Dip

Over the last few years producers have started to change their focus on mastitis. There are fewer conversations about contagious mastitis organisms such as *Staph. aureus* and *Strep. agalactiae*. Their concerns are more centered around environmental microorganisms, especially coliforms and environmental streptococci that contaminate teats and udders primarily between milkings. This change in mindset is due to several factors, such as the availability of bedding materials and more confinement housing situations. NMC research has shown that a premilking sanitation procedure known as pre-dipping greatly reduces the incidence of environmental mastitis.

The Role of Pre-Dipping:

- Achieves an acceptable level of decontamination of teat skin
- Aids in reducing the spread of microorganisms
- Aids in reducing the rate of new intramammary infections
- Reduces the number of new bacteria in raw milk supply
- Secondary Advantages include:
 - Promotes cow stimulation and milk letdown therefore speeding up the milking process
 - Maximizes the amount of milk harvested while minimizing teat end damage

Acidified Sodium Chlorite is More Effective under Organic Load

- Kill mechanism is not affected by milk, manure and other organic material
- Other germicides quickly lose killing ability when organic matter is present
- Organic matter increases pH levels
- Chlorine and chlorhexidine are readily inactivated by organic matter while ASC retains its killing ability at high pH levels
- Iodine's kill mechanism is less specific, so it is negatively affected by organic matter as pH increases

Acidified Sodium Chlorite is Broad Spectrum

- Oxidizes & reduces organisms
 - Alteration of membrane permeability
 - Destruction of certain enzyme activity
 - Interface with protein synthesis
 - Inactivation of nucleic acids

This REDOX (reduction and oxidation) reaction kills all bacteria known to cause mastitis plus viruses, molds, pseudomonas & mycoplasma

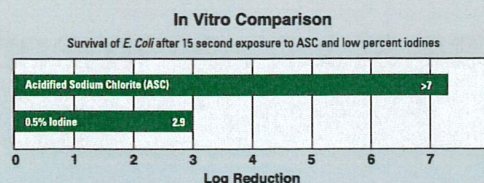
- Organisms cannot build-up resistance
- Especially effective against environmental pathogens

Acidified Sodium Chlorite is Safe

- Reduces into environmentally safe elements—organic acids & sodium chloride (table salt)
- Not harsh on teat skin
- Only attacks harmful organisms
- Is not attracted to animal cells
- Won't leave harmful residue

Valiant[®] Pre

- 15-20 second kill
- Effective surfactants easily, thoroughly clean teats
- Food safe, residue-safe (like all Valiant products)-critical pre-dip criteria
- Blue coloring for easy identification of dipped, foamed teats and pre-dip cups
- NMC protocol tested



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