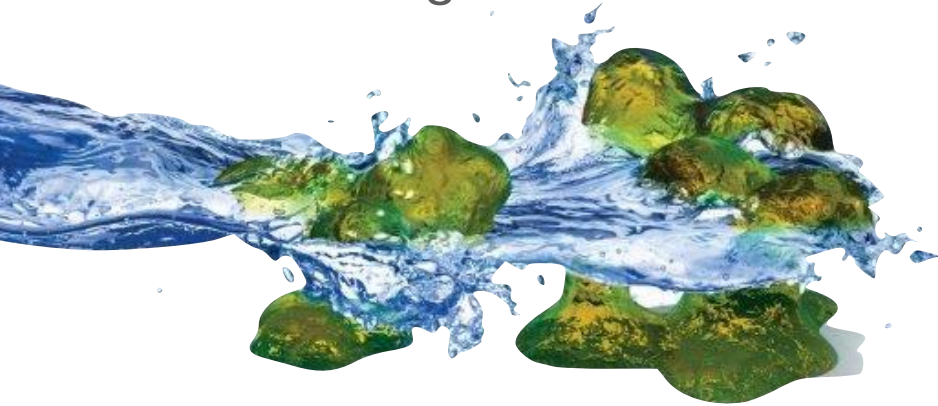


# Prontosan® Wound Irrigation Solution

## for the Surgical Incision



## Only a clean wound can heal

### THE PROBLEM - BIOFILM

Traditional wound cleansing with saline, antibiotic solutions and even antimicrobials is ineffective at removing wound coatings, debris and especially complex Biofilms. Bacteria can create an (EPS), Extracellular Polymeric Substance to shield the Biofilm from outside chemical and mechanical attack.

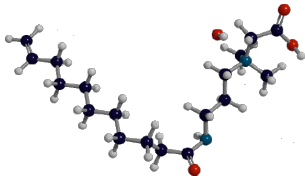
## Prontosan® Wound Irrigation Solution for the Surgical Incision

Prontosan® has a combination of **two** powerful ingredients, **Betaine & Polyhexanide (PHMB)**, that work together to effectively prepare the wound site. The combination of the two ingredients has a lower surface tension than each ingredient alone, and lower than saline, which allow for more effective softening, loosening, detachment and removal of wound debris.

### Betaine

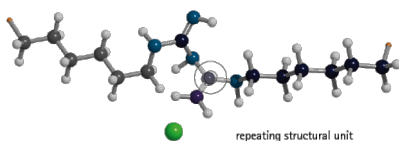
is the “**STAR**” ingredient and is a gentle, effective surfactant which is able to penetrate, disturb, clean and remove wound debris.

**STAR: Surfactant That Aids in Removal of foreign materials**



### Polyhexanide (PHMB)

Functions as a preservative which inhibits the growth of microorganisms within the product. PHMB has been in use for over 60 years and has shown no bacterial resistance.



### Antimicrobial Effectiveness Testing

Successfully meets USP<51> Category 2 Criteria

Organisms	Result Day 14	Result Day 28
<i>Escherichia coli</i> (ATCC 8739)	Greater than 2.0 log reduction from the initial count.	No increase from the 14 days count.
<i>Pseudomonas aeruginosa</i> (ATCC 9027)		
<i>Staphylococcus aureus</i> (ATCC 6538)		
<i>Candida albicans</i> (ATCC 10231)	No increase from the initial calculated count.	No increase from the initial calculated count.
<i>Aspergillus niger</i> (ATCC 16404)		

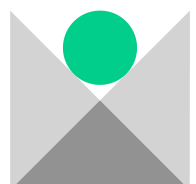
### Preservative Testing<sup>1</sup>

No microbial growth was observed at 7, 14 and 28 days for the following organisms:

- Acinetobacter baumannii*
- Enterobacter cloacae*
- Enterococcus faecalis*
- Vancomycin Resistant *Enterococcus faecalis* (VRE)
- Escherichia coli*
- Proteus mirabilis*
- Pseudomonas aeruginosa*
- Serratia marcescens*
- Staphylococcus aureus*
- Methicillin Resistant *Staphylococcus aureus* (MRSA)
- Staphylococcus epidermidis*
- Candida albicans*

**NO Rinse!**

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