



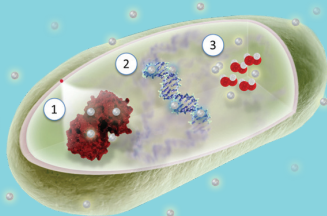
**SilverStream<sup>®</sup>**

**A SUPERIOR WOUND MANAGEMENT SOLUTION**

## SilverStream® Has Broad Anti-Microbial Activity

Current silver dressings contain inert silver particles which aggregate at the cell membrane and do not penetrate the cell. Silver ions, in contrary, penetrate bacterial cells leading to cell death by\*:

- Interacting with proteins in the bacteria cell wall and interrupting the cell membrane
- Condensing DNA within cells and interfering with cell replication
- Disrupting the respiration process
- Inducing apoptosis



Wright, J. Barry, Lam, Kan, and Burrell, Robert E. 1998. *Wound management in an era of increasing bacterial antibiotic resistance: a role for topical silver treatment.* American Journal of Infection Control, 26(6), 572-577;  
Klaus, T. et al. 1999. *Silver based crystalline nanoparticles microbially fabricated.* PNAS. 96(24): 13611-614.;  
Feng, QL et al. 2000. *A mechanistic study of the antibacterial effect of silver ions on E. coli and S. Aureus.* J. Biomed. Mater. Res. 52 662-68

## SilverStream® is Superior to Other Wound Management Solutions

- SilverStream® is non-toxic to granulation tissue and does not cause local irritation/allergic reactions\*
- Synergistic effect of silver ions and menthol — allows for a very low concentration of silver ions and enables SilverStream® to be an extremely effective antimicrobial, non-toxic, safe and painless
- SilverStream® is an ideal solution for both the initial treatment of bioburden and as a continuous facilitator of the wound healing process

## SilverStream® is 510k cleared

Specifically for the management and treatment of:

- Venous Stasis Ulcers
- Diabetic Foot Ulcers
- Stage I-IV Pressure Ulcers
- Post-Surgical Wounds



\*Sibbald RG, Williamson D, Orsted HL, et al. Preparing the wound bed-debridement, bacterial balance, and moisture balance. *Ostomy Wound Management.* 2000; 46(11): 14-8, 30.

## SilverStream® Has Broad Anti-Microbial Activity

SilverStream® inhibits the growth of clinically relevant bacteria and fungi

SilverStream®	MIC	MBC	Microbial limits <USP 61>	Zone of inhibition <USP 81>	Antimicrobial preservative <USP 51>
Escherichia coli	✓	✓	✓	✓	✓
Staphylococcus aureus (MRSA)	✓	✓	✓	✓	✓
Staphylococcus epidermidis	✓	✓	N.A.	N.A.	N.A.
Klebsiella pneumoniae	✓	✓	N.A.	N.A.	N.A.
Pseudomonas aeruginosa	N.A.	N.A.	✓	N.A.	✓
Candida albicans	N.A.	N.A.	N.A.	N.A.	✓
Aspergillus niger	N.A.	N.A.	N.A.	N.A.	✓

**MIC:** Minimum inhibitory concentration; **MBC:** Minimum bactericidal concentration The microorganisms in the table represent wound culture typical pathogenic strains  
N.D.: Not Determined

\* Conducted by an independent laboratory (Nelson Laboratory, USA) in compliance with USP.

## Excellent Outcomes In Wounds That Have Failed To Heal



**Diagnosis:** Chronic ulcer that failed attempts of excision and skin grafts previously. Ulcer on right anterior tibia.

**Results:** Ulcer began granulating after 2 weeks and patient used solution with daily dressings. After 5 weeks, wound completely closed and developed a nice epithelial lining.



**Diagnosis:** Chronic ulcer of the right transmetatarsal amputation site. Wound failed to heal after 3 serial Apligraf®. Initial wound measured 2.86cm<sup>2</sup>

**Results:** Noticed rapid improvement with granulation tissue over the bone. A 4<sup>th</sup> Apligraf was applied successfully after applying SilverStream.

Apligraf® is a trademark of Organogenesis.

## Available in the following size:

250ml bottles - 9/per case - **Product Code:** 124708

### Product Details:

- 18-months shelf-life at room temperature
- 28-days (4 weeks) shelf-life after opening
- Available in 250mL bottles  
(meets USP Type 1 standards)



### CONTACT US

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A patented product of EnzySurge Ltd.