SURGX®

Sterile Antimicrobial Gel

The last line of defense against Surgical Site Infections

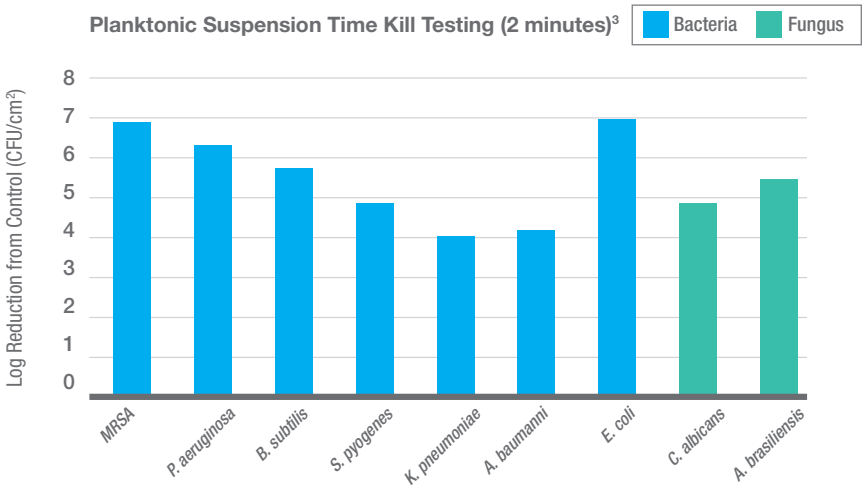
SURGX® antimicrobial gel is designed to reduce surgical site and post-surgical infections by destroying planktonic and biofilm-encased bacteria. The proprietary, non-toxic formulation conforms to the post-operative wound to provide proven broad spectrum and sustained effectiveness for up to 5 days.[1]

Leveraging Next Science's patented XBIO® technology, the formulation **deconstructs** the biofilm by chelating the metallic bonds holding the polymers together. Without protection from the structure, the pathogens within the gel are **destroyed** by exposure to a combination of a high osmolarity environment coupled with a surfactant. SURGX is armed with a citric acid buffering system to **defend** the post-surgical wound from infection and biofilm formation days after application.

Biofilms are a community of pathogens protected by a complex structure of entangled polymers strengthened by metallic bonds. These complex structures can form in **less than one hour** as a defense mechanism to prevent bacterial eradication and are a source of detrimental surgical site infections (SSIs).[2]

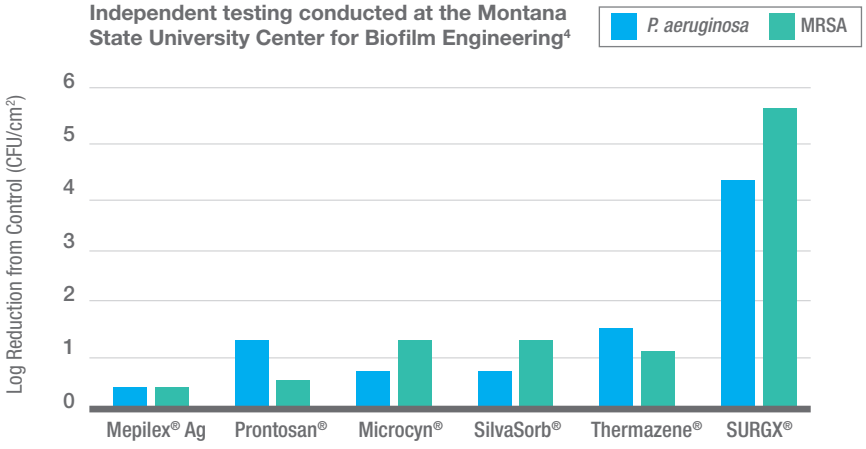
SURGX Provides Broad Spectrum Efficacy within the Gel

Formulations are effective against all bacteria, persister cells, fungi, and spores. There is no known resistance to the technology.



SURGX demonstrates multi-log biofilm reduction of MRSA and *P. aeruginosa* when compared to other topical antimicrobials

Destroying the biofilm can reduce the rate of recurrence more than 100x. Biofilm cannot form in the presence of SURGX.



1. Laboratory data on file.
2. Hall-Stoodley L, Stoodley P. Biofilm formation and dispersal and the transmission of human pathogens. *Trends Microbiol.* 2005; 13(1): 7–10.
3. Laboratory data on file.
4. Laboratory data on file.

NEXT SCIENCE®

POWERED BY XBIO® TECHNOLOGY

BLASTX® // SURGX® // XPERIENCE™ // Bactisure™

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Part Number MC-WG-0010-8

Product Name Next Science SURGX Gel 7.5 ml tube (case of 8)

Scan to Learn More or visit NextScience.com/SURGX

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