



Biovetrex™ Antimicrobial Skin and Wound Cleanser and Gel formulations have been used in hospitals and clinics nationwide for over 10 years without a single report of an untoward or adverse reaction. Biovetrex's patented formula has been FDA cleared for human use in the most difficult to manage skin and wound applications. The Biovetrex formulations have an enviable record of safety and effectiveness



ORDERING INFORMATION

PRODUCT	CATALOG NO.	NDC NO.	SIZE	CASE QUANTITY
Biovetrex Antimicrobial Skin & Wound Cleanser	7088VTP	67180-708-88	8 oz. Trigger Spray	12
Biovetrex Antimicrobial Skin & Wound Cleanser	7004VSP	67180-700-04	4 oz Spray	12
Biovetrex Antimicrobial Skin & Wound Gel	9033VGP	67180-903-33	3 oz. Tube	12
Biovetrex Antimicrobial Skin & Wound Gel	9015VGP	67180-900-15	1.5 oz. Tube	12

An independent published study:
J. Lindfors, A Comparison of an Antimicrobial Wound Cleanser to Normal Saline in Reduction of Bioburden and its Effect on Wound healing. *Ostomy/Wound Management*. 2004; 50 (8): 28-41.



Manufactured in the USA by:
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A Professional Veterinary
Antimicrobial Skin and
Wound Cleanser & Gel

Inhibits the growth of
microorganisms that are
commonly found in wound bed.



biovetrex™
Antimicrobial Skin & Wound Care

Biovetrex™ Antimicrobial Skin & Wound Cleanser

PRODUCT DESCRIPTION:

Biovetrex™ Antimicrobial Skin and Wound Cleanser is a clear, isotonic liquid that helps in the mechanical removal of the debris and foreign material from the application site. Dirt, debris and foreign materials are mechanically removed by the action of the fluid (Wound Cleanser) moving across the wound bed or application site. Biovetrex Antimicrobial Skin and Wound Cleanser contains a broad-spectrum antimicrobial agent sodium hypochlorite. It inhibits the growth of bacteria such as *Acinetobacter baumannii*, *Clostridium difficile*, *Escherichia coli*, *Proteus mirabilis*, *Pseudomonas aeruginosa*, *Serratia marcescens*, *Staphylococcus aureus*, including antibiotic resistant Carbapenem Resistant *E. Coli* (CRE), Methicillin Resistant *Staphylococcus aureus* (MRSA) and Vancomycin resistant *Enterococcus faecalis* (VRE) that are commonly found in wound bed, as well as fungi, such as *Candida albicans*, *Candida auris* and *Aspergillus niger*.

SAFETY:

The Biovetrex formula has been subjected to rigorous safety testing at an independent laboratory and shown to meet the criteria for safe use.

- Modified Primary Skin Irritation (FSA method – 7 day exposure with repeated insult to intact and abraded skin)
- Cytotoxicity (ISO Agarose Overlay method)
- Systemic toxicity (ISO Acute Systemic Toxicity)
- ISO Sensitization Study

ENVIRONMENTALLY FRIENDLY:

Biovetrex does not leave any toxic residues or byproducts. Biovetrex chemically breaks down into salt and water and is completely safe for disposal in the public sewer system.

WARNINGS:

For External Use Only. Discontinue use if redness or irritation develops. Do not use in the eyes. DO NOT FREEZE.



GENERAL DIRECTIONS FOR USE

SKIN CLEANSING:

- 1 Remove hair from affected site. Spray area with Biovetrex directly or saturate gauze and apply to affected area.
- 2 Let air dry or maintain as a wet dressing.
- 3 Repeat as necessary.

WOUND CLEANSING:

- 1 Remove hair from wound site.
- 2 Debride wound, if necessary.
- 3 Spray Biovetrex onto entire wound bed, including the wound margin. Avoid pooling. Alternate: Saturate sterile gauze pad with Biovetrex. Apply to wound site.
- 4 Cover wound site with a sterile gauze or other appropriate wound dressing.
- 5 Repeat procedure once a day. Ensure that wound bed remains moist between dressing changes.



TIME KILL STUDIES For Biovetrex Antimicrobial Skin & Wound Gel Formula

Test Organisms: Table of Antimicrobial Activity

Pathogenic Bacteria:	Initial Organism		Exposure Time/% Kill		
	Count	1 min.	3 min.	5 min.	10 min.
<i>Acinetobacter baumannii</i>	10 ⁷	98.56%	99.99%	99.998%	99.9999%
Carbapenem Resistant <i>E. coli</i> (CRE)	10 ⁶	99.999%	99.999%	99.999%	99.999%
<i>Clostridium difficile</i>	10 ⁵	100%	100%	100%	100%
<i>Escherichia coli</i>	10 ⁷	99.25%	99.986%	99.9995%	100%
Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA)	10 ⁷	100%	100%	100%	100%
<i>Proteus mirabilis</i>	10 ⁷	99.888%	99.998%	99.9998%	100%
<i>Pseudomonas aeruginosa</i>	10 ⁷	99.996%	100%	100%	100%
<i>Serratia marcescens</i>	10 ⁷	100%	100%	100%	100%
<i>Staphylococcus pseudintermedius</i>	10 ⁷	100%	100%	100%	100%
Vancomycin Resistant <i>Enterococcus faecalis</i> (VRE)	10 ⁷	100%	100%	100%	100%
Pathogenic Fungi:					
<i>Aspergillus niger</i>	10 ⁶	100%	100%	100%	100%
<i>Candida albicans</i>	10 ⁶	100%	100%	100%	100%
<i>Candida auris</i>	10 ⁵	>99.9%	N/A	>99.9%	N/A
Test Organism	Initial Microorganism Count/ML	Exposure Time	Percent Reduction	Log Reduction	
<i>Clostridium difficile</i> - spore	10 ⁶	15 minutes	99.986%	>4.0	

TIME KILL STUDIES For Biovetrex Antimicrobial Skin & Wound Cleanser Formula

Test Organisms: Table of Anti-microbial Activity

Pathogenic Bacteria	Initial Microorganism Count/ML	Exposure time / % Kill			
		30 seconds	1 minute	5 minutes	10 minutes
<i>Acinetobacter baumannii</i>	10 ⁷	—	98.089%	99.98%	99.9997%
Carbapenem Resistant <i>E. coli</i> (CRE)	10 ⁶	99.999%	99.999%	99.999%	99.999%
<i>Clostridium difficile</i>	10 ⁵	100%	100%	100%	N/A
<i>Escherichia coli</i>	10 ⁷	100%	100%	100%	100%
Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA)	10 ⁷	100%	100%	100%	100%
<i>Proteus mirabilis</i>	10 ⁸	99.998%	100%	100%	100%
<i>Pseudomonas aeruginosa</i>	10 ⁷	100%	100%	100%	100%
<i>Serratia marcescens</i>	10 ⁷	100%	100%	100%	100%
<i>Staphylococcus pseudintermedius</i>	10 ⁷	—	99.998%	99.9998%	100%
Vancomycin Resistant <i>Enterococcus faecalis</i> (VRE)	10 ⁷	100%	100%	100%	100%
Pathogenic Fungi					
<i>Aspergillus niger</i>	10 ⁷	99.99%	99.9999%	100%	100%
<i>Candida albicans</i>	10 ⁷	99.1%	99.9%	100%	100%
<i>Candida auris</i>	10 ⁵	99.1%	>99.9%	>99.9%	N/A
Test Organism	Initial Microorganism Count/ML	Exposure Time	Percent Reduction	Log Reduction	
<i>Clostridium difficile</i> - spore	10 ⁶	15 minutes	99.986%	>4.0	

Biovetrex™ Antimicrobial Skin & Wound Gel

PRODUCT DESCRIPTION:

Biovetrex™ Antimicrobial Skin and Wound Gel is a clear, amorphous, isotonic hydrogel that helps maintain a moist wound environment that is conducive to healing, by either absorbing wound exudate or donating moisture while delivering 0.057% broad-spectrum antimicrobial sodium hypochlorite. Biovetrex Gel inhibits the growth of bacteria such as *Acinetobacter baumannii*, *Clostridium difficile*, *Escherichia coli*, *Proteus mirabilis*, *Pseudomonas aeruginosa*, *Serratia marcescens*, *Staphylococcus aureus*, including antibiotic resistant Carbapenem Resistant *E. Coli* (CRE), Methicillin Resistant *Staphylococcus aureus* (MRSA) and Vancomycin resistant *Enterococcus faecalis* (VRE) that are commonly found in wound bed, as well as fungi, such as *Candida albicans*, *Candida auris* and *Aspergillus niger*.

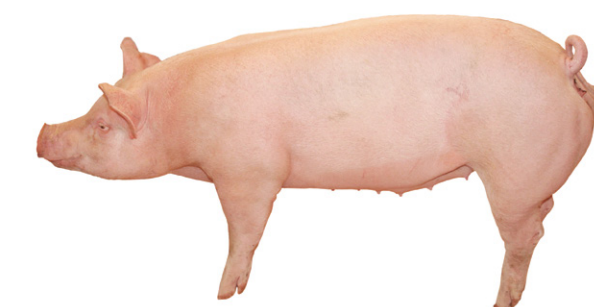
Biovetrex Antimicrobial Skin and Wound Gel is pure, completely colorless, isotonic, non-cytotoxic, tissue compatible viscous hydrogel. Biovetrex Antimicrobial Skin & Wound Gel has a 2 year shelf life when stored at normal room temperature up to 25°C (77°F).

SAFETY

Biovetrex Antimicrobial Skin and Wound Gel has been subjected to rigorous safety and toxicological evaluations to comply with FDA regulations at an independent FDA registered testing facility and shown to meet all criteria for safe use.

- Modified Skin Irritation Study (FSA method 7 day exposure with repeated insult to intact and abraded skin)
- Cytotoxicity (USP method)
- Systemic Toxicity (USP method)
- ISO Sensitization Study.
- ISO Vaginal Irritation Study.

Test reports available upon written request.



DIRECTIONS FOR USE:

Wound Care:

- 1 Remove hair from affected site.
- 2 Debride wound, if necessary or cleanse wound with a wound cleanser such as Biovetrex Antimicrobial Skin and Wound Cleanser.
- 3 Apply a generous amount (1/4 " to 1/2 "thick) of Biovetrex Antimicrobial Skin and Wound Gel to entire wound bed, including areas of undermining.
- 4 Apply a thin coating to peri-wound skin area and allow to dry.
- 5 Cover with appropriate wound dressing or covering (avoid silver and other wound dressings containing heavy metals).
- 6 Change dressing once a day. Maintain a moist wound environment between dressing changes.

Skin Care:

- 1 Cleanse affected area with appropriate skin cleanser.
- 2 Allow to dry.
- 3 Apply a thin coating of Biovetrex Antimicrobial Skin & Wound Gel.
- 4 Reapply as necessary.

