



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 Gel	9033VGP	67180-903-33	3 oz. Tube	12



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A Professional Veterinary
Antimicrobial Skin and
Wound Cleanser & Gel

Most pathogenic organisms
are killed within 2 minutes



Biovetrex™ Antimicrobial Skin & Wound Cleanser

PRODUCT DESCRIPTION:

An extremely safe and gentle skin and wound cleanser with exceptionally rapid broad-spectrum bactericidal, fungicidal and virucidal properties through the action of antimicrobial sodium hypochlorite. Biovetrex helps in the mechanical removal of the debris and foreign material from the wound or application site. Biovetrex is a very pure, completely colorless, isotonic, tissue compatible solution with a two year shelf life.

RAPID ACTION:

The Biovetrex formula demonstrates exceptionally rapid microbiocidal action. Most pathogenic organisms are killed within 2 minutes or less following application. There is no known microbial resistance to Biovetrex.

CLINICALLY TESTED:

The Biovetrex formula is clinically proven to reduce wound bioburden levels and improve the rate of healing.*

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 (FHSA 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.



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.

* 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.

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.	
Acinetobacter baumannii	10 ⁷	99.722%	99.977%	99.996%	99.998%	
Carbapenem Resistant E. coli (CRE)	10 ⁶	99.999%	99.999%	99.999%	99.999%	
Clostridium difficile	10 ⁵	100%	100%	100%	100%	
Escherichia coli	10 ⁷	99.25%	99.986%	99.9995%	100%	
Methicillin Resistant Staphylococcus aureus (MRSA)	10 ⁷	100%	100%	100%	100%	
Proteus mirabilis	10 ⁷	99.888%	99.998%	99.9998%	100%	
Pseudomonas aeruginosa	10 ⁷	99.996%	100%	100%	100%	
Serratia marcescens	10 ⁷	100%	100%	100%	100%	
Staphylococcus aureus	10 ⁷	100%	100%	100%	100%	
Vancomycin Resistant Enterococcus faecalis (VRE)	10 ⁷	100%	100%	100%	100%	
Pathogenic Fungi:						
Aspergillus niger	10 ⁶	100%	100%	100%	100%	
Candida albicans	10 ⁶	100%	100%	100%	100%	

Test Organism: Table of Sporicidal Activity

Test Organism	Initial Microorganism	Exposure	Percent	Log
	Count/ML	Time	Reduction	Reduction
Clostridium difficile - spore	10 ⁶	15 minutes	99.99%	>4.0

TIME KILL STUDIES For Biovetrex Antimicrobial Skin & Wound Cleanser Formula

Test Organisms: Table of Antimicrobial Activity

Pathogenic Bacteria	Initial Microorganism Count/ML	Exposure time / % Kill		
		30 seconds	1 minute	5 minutes
Acinetobacter baumannii	10 ⁷	-	99.96%	99.98%
Carbapenem Resistant E. coli (CRE)	10 ⁶	99.999%	99.999%	99.999%
Clostridium difficile	10 ⁵	100%	100%	100%
Escherichia coli	10 ⁸	100%	100%	100%
Methicillin Resistant Staphylococcus aureus (MRSA)	10 ⁸	100%	100%	100%
Proteus mirabilis	10 ⁸	99.998%	100%	100%
Pseudomonas aeruginosa	10 ⁸	100%	100%	100%
Serratia marcescens	10 ⁸	100%	100%	100%
Staphylococcus aureus	10 ⁸	100%	100%	100%
Vancomycin Resistant Enterococcus faecalis (VRE)	10 ⁸	100%	100%	100%
Pathogenic Fungi				
Aspergillus niger	10 ⁸	99.99%	99.9999%	100%
Candida albicans	10 ⁸	99.1%	99.9%	100%

Test Organism: Table of Sporicidal Activity

Test Organism	Initial Microorganism Count/ML	Exposure Time	Percent Reduction	Log Reduction
Clostridium difficile - spore	10 ⁶	15 minutes	99.999%	>5.7

Biovetrex™ Antimicrobial Skin & Wound Gel

PRODUCT DESCRIPTION:

Biovetrex Antimicrobial Skin and Wound Gel is an extremely safe topical hydrogel with exceptionally rapid broad spectrum bactericidal, including the antibiotic resistant strains MRSA & VRE, fungicidal, virucidal and sporicidal properties through the action of sodium hypochlorite. There is no known microbial resistance to Biovetrex Antimicrobial Skin & Wound Gel.

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

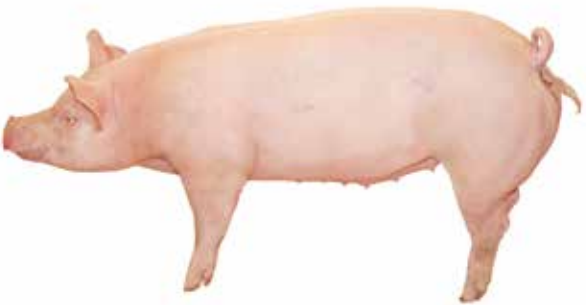
Biovetrex Antimicrobial Skin and Wound Gel has been subjected to rigorous safety and toxicological evaluations to comply with FDA regulations at an independent FDA registered testing facility and shown to meet all criteria for safe use.

- Modified Skin Irritation Study(FSHA 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.

clinically tested:

Biovetrex Antimicrobial Skin & Wound Cleanser, the liquid version of Biovetrex Antimicrobial Skin & Wound Gel is clinically proven to reduce wound bioburden levels and improve the rate of healing.*



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.

