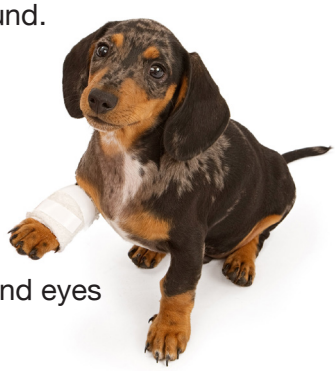
OxyVet® Wound Wash

OxyVet Wound Wash acts as an excellent cleansing agent. It is a plant oil derived phospholipid complex with anti-irritation effects and long-lasting skin conditioning as well as *broad spectrum microbiostatic activity (*See supporting data starting on page 3).* It provides strong self-preservation activity and reduces anionic formulation irritation found in most wound wash products. Uses Naturally derived lipids to clean wounds and promote healing.

OxyVet is a biomimetic of mammalian skin tissue, a natural triglyceride phospholipid similar to phospholipids that occur naturally in the body. The term biomimetic has been used to indicate that these materials closely simulate, through topical application to the skin, the function of the natural stratum corneum lipids, AND the biomimetic phospholipids actually display *potent antimicrobial activity (*See supporting data starting on page 3*) without showing mammalian toxicity or skin irritation effects. And the cationic state insures it thoroughly cleans the wound.



- Naturally-Derived
- Antiseptic
- Anti-infective cleanser
- Biomimetic
- Lipid Complex
- Non-irritating to skin and eyes
- Non-staining

OxyVet Wound Wash deposits essential fatty acids on skin and repairs damaged skin and wound tissue.

- *Provides quick action against pathogenic bacteria and fungi.
- Creates an optimal environment for healing.
- Superior Transdermal Penetration.
- Long-acting topical that is effective against both gram-negative and gram-positive bacteria, ringworm, protozoa and some viruses.

Directions For Use:

For use on animals only. Spray on wound and surrounding area to clean dirt and debris.

Warnings:

For external use only. Avoid contact with eyes.

Keep out of reach of children.

Ingredients:

Water, Glycine betaine, Alpha-glyceryl phosphoryl choline, Tris (N-C5-17-alkylamidopropyl-N, N-dimethyl- N-(2-hydroxypropyl) ammonio) phosphate trichloride, Whey protein, Sodium citrate

TECHNICAL DATA:

The formula in OxyVet Wound Wash contains proprietary cytokines, which are an essential part of the regulatory system in our body. Cytokines are important stimulators of the synthesis of the connective tissue, for example, collagen and glycosaminoglycans, and are thus able to strengthen the dermis and heal wounded tissues.

Our priority cytokines occur naturally, but in an inactive form. A special technology allows the activation of the inactive cytokines by a natural, non-enzymatic process providing its unique biological activity.

Cytokines are the key signaling or regulatory molecules in our body. They transfer stimulatory or inhibitory signals to the cells in order to render cell response resulting in the restoration of a physiologically balanced skin.

OxyVet Wound Wash acts as a booster of collagen type I, hyaluronic acid and fibronectin synthesis, leading to a reorganization of the dermal extracellular matrix (ECM).

In healthy tissue, cells are attached to constituents of the ECM. In case of serious impairment or wounds, the first step in tissue repair provides for

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the detachment of cells and ECM by the release of proteases. The cells then migrate to the damaged site to induce the repair process, mostly by synthesis of ECM components.

Results:

Stimulated by growth factors / In vitro simulation of wound healing. *Available under NDA and Confidential data disclosure to protect the patent pending.*

- Increase in protein synthesis (fibroblasts): up to 247.2%
- Increase in Collagen Type I synthesis (fibroblasts): up to 39.3%
- Increase in fibronectin synthesis (fibroblasts): up to 140.0%
- Increase in hyaluronic acid synthesis (fibroblasts): up to 1,900.0%

Microbial Bioburdens:

Microbial bioburden in both acute and chronic wounds is an important factor in wound healing. Consequently, the reduction of bioburden to host-manageable levels, as well as the elimination of certain virulent forms of wound pathogens (regardless of their number), has become a key goal of the wound care professional.

In general, the characteristics of an ideal wound cleansing solution are: non-toxic to animal and/or human tissues; remains effective in the presence of organic material; reduces the number of micro-organisms; does not cause sensitivity reactions; is widely available; is cost-effective; and is stable with a long shelf life.

Normal saline (0.9%) fulfills all the criteria given above and has long been a favored wound cleansing solution because it is an isotonic solution and does not interfere with the normal healing process, damage tissue, cause sensitization or allergies or alter the normal bacterial flora of the skin (which would possibly allow the growth of more virulent organisms).

Recent research to increase the understanding of the relationship between wound bioburden, healing, and cleansing agents has proven additional testing was required. A prospective, controlled clinical study using accepted sampling methods was conducted to compare the use of an antimicrobial wound cleanser (OxyVet® Wound Wash) to normal saline on the reduction of bioburden and wound size. During the 2-month study, 100% of the wounds cleansed with the OxyVet® wound cleanser demonstrated aerobic bioburden reduction from baselines in a range from 9,000,000 CFU (colony forming units) per gram, to less than 1000 CFU per gram, while 56% of the wounds cleansed with normal saline showed an increase in aerobic bioburden levels. The proportion of wounds exhibiting a reduction in wound size was higher in the OxyVet® group than in the saline group.

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* See following pages with supporting data from Analytical Resource Laboratories...

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Certificate of Analysis

Client Information

ConSeal International
90 Kerry Place, Suite 2
Norwood, MA
02062 USA
781.278.0010

Sample Information

ARL ID: 419077-1
Date Received: 8/19/2021
Description: OxyVet Wound Wash 8oz Bottle of Ready to Use Liquid 77554
Lot#: 052421-A

Analysis	Method	†MDL / LOQ	Specification	Results	UOM	Lab ID
CTFA PET: Custom	CTFA					1
Organism: Staphylococcus aureus ATCC						1
CTFA PET Suitability: S. aureus	CTFA			**Suitable		1
CTFA Initial Concentration: S. aureus	CTFA			9.0×10^6	cfu's/g	1
CTFA 3 Minute Counts: S. aureus	CTFA	10	Record Only	< 1000	cfu's/g	1
CTFA Hour 1 Counts: S. aureus	CTFA	10	Record Only	< 1000	cfu's/g	1
CTFA 3 Minute Percent Reduction: S. aureus	CTFA	0.1	Record Only	> 99.99	%	1
CTFA Hour 1 Percent Reduction: S. aureus	CTFA	0.1	Record Only	> 99.99	%	1
						1
Organism: Escherichia coli ATCC 8739						1
CTFA PET Suitability: E. coli	CTFA			Suitable		1
CTFA Initial Concentration: E. coli	CTFA			5.9×10^6	cfu's/g	1
CTFA 3 Minute Counts: E. coli	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA Hour 1 Counts: E. coli	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA 3 Minute Percent Reduction: E. coli	CTFA	0.1	Record Only	> 99.99	%	1
CTFA Hour 1 Percent Reduction: E. coli	CTFA	0.1	Record Only	> 99.99	%	1
						1

Notes:

**Plating method is suitable at a 1:1000 dilution.
+Revision: Updated results to percent reduction per client request.

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Organism: Pseudomonas aeruginosa ATCC						1
CTFA PET Suitability: P. aeruginosa	CTFA			Suitable		1
CTFA Initial Concentration: P. aeruginosa	CTFA			3.8×10^6	cfu's/g	1
CTFA 3 Minute Counts: P. aeruginosa	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA Hour 1 Counts: P. aeruginosa	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA 3 Minute Percent Reduction: P.	CTFA	0.1	Record Only	> 99.99	%	1
CTFA Hour 1 Percent Reduction: P.	CTFA	0.1	Record Only	> 99.99	%	1
						1
Organism: Candida albicans ATCC 10231						1
CTFA PET Suitability: C. albicans	CTFA			Suitable		1
CTFA Initial Concentration: C. albicans	CTFA			1.9×10^5	cfu's/g	1
CTFA 3 Minute Counts: C. albicans	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA Hour 1 Counts: C. albicans	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA 3 Minute Percent Reduction: C.	USP <51>	0.1	Record Only	> 99.99	%	1
CTFA Hour 1 Percent Reduction: C. albicans	CTFA	0.1	Record Only	> 99.99	%	1
						1
Organism: Aspergillus niger ATCC 16404						1

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CTFA PET Suitability: A. niger	CTFA			Suitable		1
CTFA Initial Concentration: A. niger	CTFA			8.3×10^4	cfu's/g	1
CTFA 3 Minute Counts: A. niger	CTFA	10	Record Only	68,000	cfu's/g	1
CTFA Hour 1 Counts: A. niger	CTFA	10	Record Only	48,000	cfu's/g	1
CTFA 3 Minute Percent Reduction: A. niger	CTFA	0.1	Record Only	20	%	1
CTFA Hour 1 Percent Reduction: A. niger	CTFA	0.1	Record Only	40	%	1
						1
Organism: Burkholderia cepacia ATCC						1
CTFA PET Suitability: B. cepacia	CTFA			Suitable		1
CTFA Initial Concentration: B. cepacia	CTFA			8.4×10^4	cfu's/g	1
CTFA 3 Minute Counts: B. cepacia	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA Hour 1 Counts: B. cepacia	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA 3 Minute % Reduction: B. cepacia	CTFA	0.1	Record Only	> 99.99	%	1
CTFA Hour 1 % Reduction: B. cepacia	CTFA	0.1	Record Only	> 99.99	%	1
						1
Organism: Klebsiella pneumoniae ATCC						1
CTFA PET Suitability: K. pneumoniae	CTFA			Suitable		1
CTFA Initial Concentration: K. pneumoniae	CTFA			3.7×10^6	cfu's/g	1

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Liquid 77554
Lot#: 052421-A

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CTFA 3 Minute Counts: K. pneumoniae	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA Hour 1 Counts: K. pneumoniae	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA 3 Minute Percent Reduction: K.	CTFA	0.1	Record Only	> 99.99	%	1
CTFA Hour 1 Percent Reduction: K.	CTFA	0.1	Record Only	> 99.99	%	1
						1
Organism: Pseudomonas fluorescens ATCC						1
CTFA PET Suitability: P. fluorescens	CTFA			Suitable		1
CTFA Initial Concentration: P. fluorenscens	CTFA			2.1×10^6	cfu's/g	1
CTFA 3 Minute Counts: P. fluorenscens	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA Hour 1 Counts: P. fluorenscens	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA 3 Minute Percent Reduction: P.	CTFA	0.1	Record Only	> 99.99	%	1
CTFA Hour 1 Percent Reduction: P.	CTFA	0.1	Record Only	> 99.99	%	1
						1
Organism: Penicillium rubens ATCC 9179						1
CTFA PET Suitability: P. rubens	CTFA			Suitable		1
CTFA Initial Concentration: P. rubens	CTFA			3.0×10^5	cfu's/g	1
CTFA 3 Minute Counts: P. rubens	CTFA	10	Record Only	310,000	cfu's/g	1

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CTFA Hour 1 Counts: P. rubens	CTFA	10	Record Only	120,000	cfu's/g	1
CTFA 3 Minute Percent Reduction: P. rubens	CTFA	0.1	Record Only	0	%	1
CTFA Hour 1 Percent Reduction: P. rubens	CTFA	0.1	Record Only	60	%	1
						1
Organism: Salmonella typhimurium ATCC						1
CTFA PET Suitability: S. typhimurium	CTFA			Suitable		1
CTFA Initial Concentration: S. typhimurium	CTFA			1.9×10^6	cfu's/g	1
CTFA 3 Minute Counts: S. typhimurium	CTFA	10	Record Only	150	cfu's/g	1
CTFA Hour 1 Counts: S. typhimurium	CTFA	10	Record Only	< 10	cfu's/g	1
CTFA 3 Minute Percent Reduction: S.	CTFA	0.1	Record Only	> 99.99		1
CTFA Hour 1 Percent Reduction: S.	CTFA	0.1	Record Only	> 99.99		1

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