

# Vetericyn<sup>®</sup> VF

Clean • Treat • Heal<sup>™</sup>

Clinically Proven  
One-Step Wound and  
Infection Treatment



# Works Naturally

Vetericyn® works naturally with the animal's own immune system. Since Vetericyn contains no steroids, antibiotics or alcohols, it is safe for a wide range of animals even with the most sensitive systems.

## Use to Treat or Prevent:

- Cuts & Scrapes
- Lacerations & punctures
- Ringworm
- Hot Spots
- Eye Infections
- Ear Infections
- Skin Rashes
- Fungal Infections
- Skin Infections
- Burns
- Pre- & Post-Surgical Sites
- Skin Ulcers
- Chronic Wounds
- Dermatitis

## In-vitro Vetericyn kills to the limit the following:

Name of Organism	Time to Kill	Percent Reduction
MRSA - Staphylococcus aureus	30 seconds	99.9999%
VRE - Enterococcus faecalis	30 seconds	99.9999%
Staphylococcus aureus	30 seconds	99.9999%
Pseudomonas aeruginosa	30 seconds	99.9998%
Escherichia coli	30 seconds	99.9997%
Moraxella bovis	30 seconds	99.9999%
Moraxella catarrhalis	30 seconds	99.9999%
Acinetobacter baumannii	30 seconds	99.9999%
Bacteroides fragilis	30 seconds	99.9999%
Candida albicans	30 seconds	99.9999%
Enterobacter aerogenes	30 seconds	99.9999%
Enterococcus faecium	30 seconds	99.9999%
Haemophilus influenzae	30 seconds	99.9993%
Klebsiella oxytoca	30 seconds	99.9999%
Klebsiella pneumoniae	30 seconds	99.9999%
Micrococcus luteus	30 seconds	99.9999%
Proteus mirabilis	30 seconds	99.9999%
Serratia marcescens	30 seconds	99.9999%
Staphylococcus epidermidis	30 seconds	99.9998%
Staphylococcus haemolyticus	30 seconds	99.9999%
Staphylococcus hominis	30 seconds	99.9996%
Staphylococcus saprophyticus	30 seconds	99.9999%
Streptococcus pyogenes	30 seconds	99.9999%

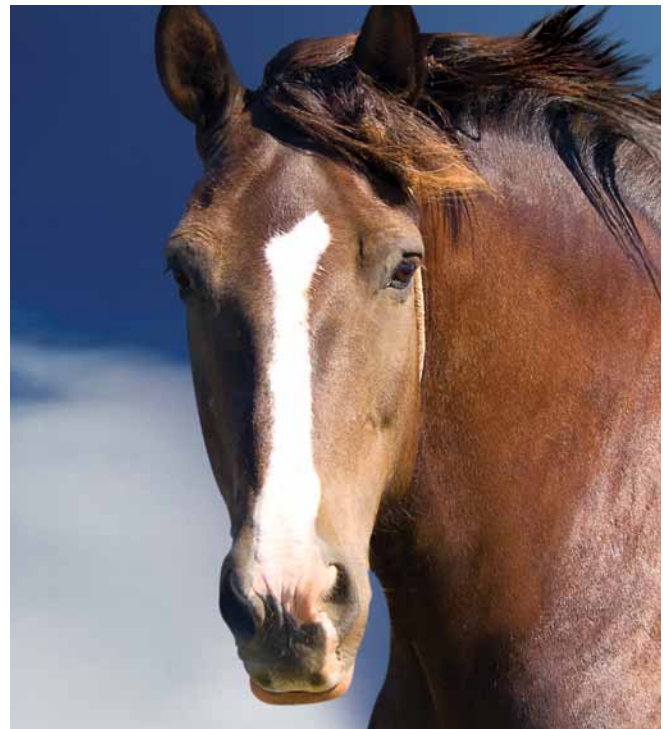


# World's First Non-Toxic, Broad Spectrum

## Vetericyn Changes the Paradigm of How Topical Wounds and Infections are Treated

The Vetericyn formula is based on the Microcyn® Technology which has been used to treat over two million humans worldwide without a single serious adverse effect. This revolutionary non-toxic, broad spectrum antimicrobial wound treatment kills antibiotic-resistant strains of bacteria as well as fungi, viruses and spores. An oxychlorine compound similar to that produced by the animal's own immune system, Vetericyn is 100% non-toxic and will not harm healthy tissue. Being pH neutral, it will not sting when applied. In-vitro results show that Vetericyn can safely kill 99.999% of most single-cell pathogens in 30 seconds or less.

- Within 30 seconds, Vetericyn achieves a five-log reduction (99.999%) of infection-causing bacteria, viruses and fungi including antibiotic-resistant MRSA.
- Does not harm healthy tissue.
- 100% non-toxic and non-irritating.
- Natural anti-inflammatory and antihistamine.
- Clinically proven to increase oxygen and helps cause vasodilatation.
- Single cell pathogens do not develop resistance to Vetericyn's mode of action in wounds, site of infection or irritation.
- No antibiotics, steroids, alcohols, iodine, or tea tree oil.
- Reduces or eliminates wound odors.
- 100% safe for the environment and patient.
- Safe as water. Can be used on all animals.
- No rinsing required after application to animal.
- Up to 18 months shelf life.
- Does NOT stain clothing or furniture after application to animal.
- Ease of use improves patient compliance.



# Antimicrobial Wound Treatment



## Vetericyn safely replicates the animal's own immune system

Using a proprietary and non-cytotoxic formulation of oxychlorine compounds in a pH-neutral solution, Vetericyn can be used to moisten, clean and debride acute and chronic wounds without harming healthy tissue. Oxychlorine compounds occur naturally in animals as they are released by neutrophils, which are the most abundant type of white blood cells, and form an essential part of the immune system. Vetericyn's mode of action against microorganisms mimics that of neutrophils in the body. Specifically, the hypochlorous acid (HOCl) that is generated through the oxidative burst process of neutrophils acts as a potent antimicrobial agent which attacks only single cell pathogens. As a strong oxidant, hypochlorous acid is known to react through a variety of pathways with biomolecules. However, the main route of attack against microorganisms is the disruption of the cellular membrane.

## Accelerated Healing Times

Wounds and infections treated with Vetericyn have demonstrated a reduction in healing time by up to 60%. There is evidence that Vetericyn helps cause vasodilation. This significantly increases the oxygen content and nutrients to the wound site within 30 seconds and maintains that increased oxygen level for up to 36 hours. In addition to the anti-infective treatment and increased oxygenation, Vetericyn also helps reduce chronic inflammation by inhibiting the release of histamines by the body's mast cells.

The combination of Vetericyn's hyperbaric component, the reduction of chronic inflammation by Vetericyn acting as a natural antihistamine, along with the eradication of infection may be responsible for these accelerated healing times.

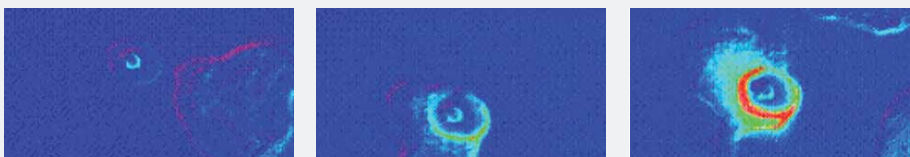
## Stable solution, pH-neutral, non-toxic

The efficacy of super-oxidized water technology as an anti-infective has been known for several decades, but past formulations have limited shelf life and have been cytotoxic. With the development of the Microcyn Technology, this solution is now available as Vetericyn, a pH-neutral and shelf-stable formula. Through lavage, debriding and wound saturation, Vetericyn cleans and treats infection so that healing may occur. Wound odor is also noticeably reduced or eliminated.

## Safe & Effective

A recent study comparing Microcyn Technology to a broad spectrum systemic antibiotic, found in the Microcyn Technology showed an 80-100% better clinical success rate in treating topical infections. It is three times more effective than iodine-based solutions in killing a broad spectrum of bacteria, including MRSA. And, unlike other cytotoxic treatments, Vetericyn is able to treat topical infections even around the eyes, nose and mouth, without damaging healthy tissue.

The continuous use of antibiotics may result in the development of antibiotic-resistant infections. "Drug-resistant infections increase risk of death, and are often associated with prolonged hospital stays, and sometimes complications", according to an article published in the FDA Consumer Magazine, (Source: The Rise of Antibiotic-Resistant Infections, Ricki Lewis, Ph.D., FDA Consumer Magazine, September 1992). In yet another advantage, the Microcyn Technology used in Vetericyn is not an antibiotic and because of its unique mode of action, neither antibiotic-resistant bacteria nor viruses and fungi can develop an immunity to it.



A yeast cell being destroyed by an oxidative burst (shown in red).

When neutrophils encounter bacteria or other pathogens, the neutrophils engulf it and generate an oxychlorine compound with which to destroy it. This process is called the "oxidative burst." These molecules typically have a very short life span as they are created "on demand" to accomplish a specific task and do not harm healthy tissue in the process. Mimicking an animal's immune system, Vetericyn contains oxychlorine compounds that are similar to those produced in the oxidative burst.



## Environmentally friendly, safe as water

Vetericyn will not harm the environment or the patient. No elaborate safety measures are required for its application or disposal. Safe as water, it will not cause injury if it is licked or ingested. This is possible because Vetericyn works in the same way as the animal's immune system. As such, the body recognizes it as a friendly infection-treating ally. Furthermore, with Vetericyn there is no staining or additional cleaning required.

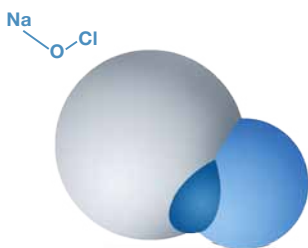
## Easy to use, no mixing, no dilution

Vetericyn is immediately ready for use, with no mixing or dilution required. There are no additional safety procedures to follow as the product will not cause skin, eye, lung or mucous membrane irritation. It is no-rinse meaning that there is no messy, sticky or toxic substance left behind in the wound to prevent healing.

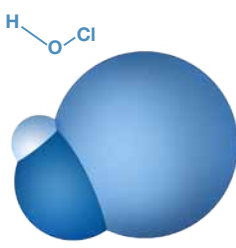
## The Chemistry of Vetericyn

Vetericyn VF is currently available in two formulas. **Vetericyn VF Liquid** and **Vetericyn VF HydroGel**. The active ingredient is hypochlorous acid. Sodium hypochlorite is used in trace amounts as a preservative. The pH of Vetericyn is targeted at about 7, making it pH neutral while diluted bleach has a pH > 11. At a pH of 7, diluted bleach is unstable and has limited efficacy as an antimicrobial. Also, Vetericyn has been clinically proven to be 70x more effective as an antimicrobial than diluted bleach and is also 100% non-toxic.

Sodium hypochlorite



Hypochlorous acid



### Vetericyn VF Liquid Contains:

Electrolyzed Water (H<sub>2</sub>O): 99.816%  
Sodium Chloride (NaCl): 0.023%  
Sodium Phosphate (NaH<sub>2</sub>PO<sub>4</sub>/Na<sub>2</sub>HPO<sub>4</sub>): 0.015%  
Hypochlorous Acid (HOCl): 0.011%

### Vetericyn VF HydroGel Contains:

Electrolyzed Water (H<sub>2</sub>O): 96.245%  
Sodium Magnesium Fluorosilicate: 2.987%  
Boric Acid (H<sub>3</sub>BO<sub>3</sub>): 0.462%  
Sodium Sulfate (Na<sub>2</sub>SO<sub>4</sub>): 0.295%  
Hypochlorous Acid (HOCl): 0.010%  
Sodium Hypochlorite (NaOCl): 0.001%

## Treatment Regimen

Clean and debride wound as needed with Vetericyn. The antimicrobial properties of Vetericyn are completed within 30 seconds and can last up to six hours. **There are no known contraindications nor are there any known negative drug interactions.**

### Note:

It is not recommended to use Vetericyn in conjunction with any other wound care ointments or solutions. It is safe to use in conjunction with systemic antibiotics. Wrapping is not necessary but the wound may be dressed in sterile gauze if desired. Apply Vetericyn to the wound and saturate the dressing before applying. Vetericyn VF is designed for licensed veterinarians to dispense to patients for home use.

- Do not decant
- Not recommended to use with other topical wound care solutions
- Safe to use in conjunction with systemic antibiotics
- Safe to use with dressing if needed
- Designed for vets to dispense to their clients



# Studies

## Recent animal studies include:

**1. Large Animal Respiratory Infections:** In the first study, Microcyn Technology was tested against *Moraxella Catarrhalis*, a gram-negative, aerobic, oxidase-positive diplococcus, which causes respiratory tract-associated infection in both animals and humans in-vitro. Microcyn/Vetericyn killed *M. catarrhalis* to the limit (99.98888889%) at each test data point = 15 seconds, 30 seconds, 60 seconds, 120 seconds, five minutes and 15 minutes.

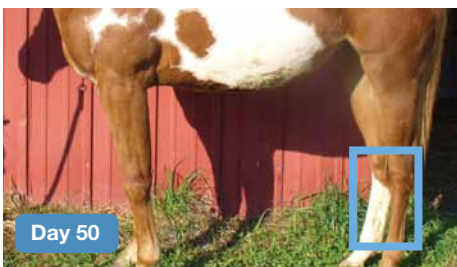
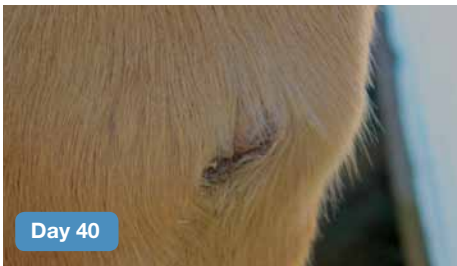
**2. Eye Wash:** In a second in-vitro study performed at Texas A&M, Microcyn/Vetericyn was tested successfully against *Moraxella bovis*, the cause of Infectious Bovine Keratoconjunctivitis. Vetericyn killed to the limit in five minute and 10 minute test intervals. This is promising considering that the existing two most common medical treatments listed below for Infectious Bovine Keratoconjunctivitis are both challenging and expensive:

- a. Subconjunctival injection of a Tetracycline, or
- b. A topical application of Cloxacillin.

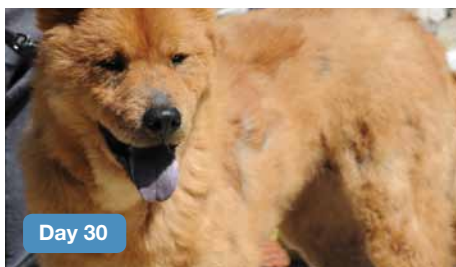
Please visit the Vetericyn web site, [www.Vetericyn.com](http://www.Vetericyn.com), for information on clinical and research studies.

# Testimonials

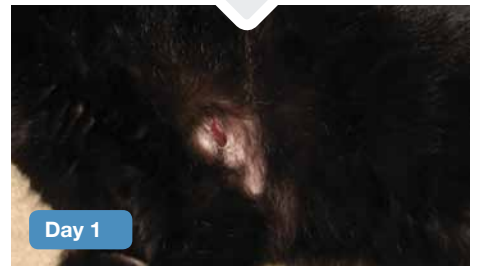
Horse With Deep Puncture Wound



Dog with Wounds and Sores from Mange\*



Cat with Hot Spot



\*Vetericyn treats the wounds caused by mange and prevents potential secondary infections, a treatment to kill the mites is still required.

**Vetericyn**<sup>®</sup>  
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