



Pre-Procedure and Immediate Post-Procedure Treatment

LASERCYN™ Dermal Spray is intended for the cleansing, irrigation, moistening, debridement and removal of foreign material including microorganisms and debris from exuding wounds, acute and chronic dermal lesions including stage I-IV pressure ulcers, stasis ulcers, diabetic ulcers, post-surgical wounds, first- and second-degree burns, abrasions, minor irritations of the skin, diabetic foot ulcers, ingrown toe nails, grafted/donor sites and exit sites.

HOCl has been shown to Cleanse, Irrigate, Moisten, Debride, and Remove Microorganisms

Pre-Procedure and Post-Procedure: Superficial Peel, Chemical Peel, Micro Needling, Laser, Microdermabrasion, Filler Injection, and Toxin Injection



Post-Procedure Care

LASERCYN™ Gel is intended for the management of post non-ablative laser therapy procedures, post microdermabrasion therapy and following chemical peels.

LASERCYN™ Gel may also be used to relieve itch and pain from minor skin irritations, lacerations, abrasions and minor burns.

HOCl has been shown to Eradicate Bacteria, Reduce Itch, Increase Oxygenation, Reduce Inflammation, and Improve Healing

Post Procedure: Chemical Peel, Micro Needling, Laser, Surgery, Microdermabrasion, and Filler Injection to improve healing and manage symptoms of itch and inflammation



ADVANCED SCAR MANAGEMENT HYDROGEL

Post-Procedure, Post-Surgical Care + Scar Management

CELACYN™ Advanced Scar Management Hydrogel is intended for the management of old and new hypertrophic and keloid scars resulting from burns, general surgical procedures and trauma wounds.

HOCl has been shown to Manage Scars, Eradicate Bacteria, Reduce Itch, Increase Oxygenation, and Reduce Inflammation

Scar Management: To support Re-Epithelialization, Reduce Scar Formation, and Scar Management

Reference: 1. Bucko AD, Draelos Z, Dubois JC, Jones TM. A double-blind, randomized study of a Microcyn® Technology scar gel in comparison with 100% silicone gel for hypertrophic or keloid scars. Poster presented at: 10th Annual Coastal Dermatology Symposium; September 24-27, 2014; Sonoma, CA.



The Only Choice for "Pre & Post Procedures"

Superficial Peel
Chemical Peel
Microneedling

Laser Microdermabrasion
Filler Injection
Toxin Injection



Microcyn® Technology The Science of Hypochlorous Acid (HOCl)

What is HOCl (hypochlorous acid)?

- HOCl is a molecule produced naturally in the body by our immune system, specifically our neutrophils.
- HOCl has been used for years on millions of patients around the world, treating wounds and other inflammatory dermal irritations.
- A distinct manufacturing process is necessary to enable solutions to remain stable at the optimal pH levels.

What does HOCl do?

1. Eradicates Bacteria

- In vivo and in vitro data prove it eradicates organisms including *Staphylococcus aureus*, which is present in 90% of atopic patients^{1,2}
- In the topically applied hypochlorous acid gel studies, initial inoculums ranged from 1.4-5.4 x 10⁴ CFU for the subjects included in the study and log reductions with Microcyn Technology Gel treatment ranged from -2.01 (99.0%) to -3.45 (99.9%). Results from the in vivo study showed that topically applied hypochlorous acid gel to skin inoculated with *S aureus* reduced the bacterial count by ≥99%.³

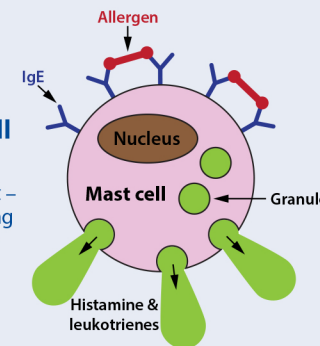
2. Reduces Inflammation

- Data suggest it inhibits mast cell degranulation⁴
- Super-oxidized water prevents allergen- and calcium-induced mast cell degranulation for 8 hours after a single exposure

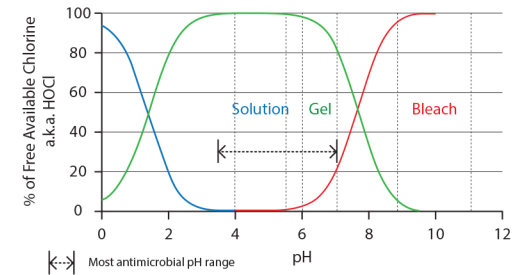
Anti-inflammatory Properties: Inhibition of Mast Cell Degranulation

Microcyn inhibits Mast Cell Degranulation

It does not eliminate it – but reduces it, resulting in less inflammation and less redness



Stabilized HOCl at optimal pH levels for disinfection



Preservative Time Kill Data—Microcyn® Dermal Spray

Name of Organism	Log Reduction	Time to Kill	Percent Reduction
<i>Acinetobacter baumannii</i>	6.3692	30 seconds	99.9999%
<i>Bacteroides fragilis</i>	7.6435	30 seconds	99.9999%
<i>Candida albicans</i>	6.3345	30 seconds	99.9999%
<i>Clostridium difficile</i> (spores)	4.6475	30 seconds	99.9977%
<i>Enterobacter aerogenes</i>	6.0881	30 seconds	99.9999%
<i>Enterococcus faecalis</i> -VRE	6.3646	30 seconds	99.9999%
<i>Enterococcus faecium</i> -VRE MDR	6.5119	30 seconds	99.9999%
<i>Escherichia coli</i>	5.6990	30 seconds	99.9998%
<i>Haemophilus influenzae</i>	5.1775	30 seconds	99.9993%
<i>Klebsiella oxytoca</i> -MDR	6.0492	30 seconds	99.9999%
<i>Klebsiella pneumoniae</i>	6.1430	30 seconds	99.9999%
<i>Micrococcus luteus</i>	5.8420	30 seconds	99.9999%
<i>Proteus mirabilis</i>	6.2028	30 seconds	99.9999%
<i>Pseudomonas aeruginosa</i>	5.8096	30 seconds	99.9998%
<i>Serratia marcescens</i>	5.9978	30 seconds	99.9999%
<i>Staphylococcus aureus</i> -MRSA	6.3454	30 seconds	99.9999%
<i>Staphylococcus aureus</i>	6.2266	30 seconds	99.9999%
<i>Staphylococcus epidermidis</i>	6.0233	30 seconds	99.9999%
<i>Staphylococcus haemolyticus</i>	5.9112	30 seconds	99.9999%
<i>Staphylococcus hominis</i>	5.4456	30 seconds	99.9996%
<i>Staphylococcus saprophyticus</i>	5.9590	30 seconds	99.9999%
<i>Staphylococcus pyogenes</i>	6.7160	30 seconds	99.9999%

3. Reduces Pruritus

- Clinically proven to reduce itch
 - 50% of patients reported improvement in itch day 1⁵
 - 85% of patients reported improvement in itch day 3⁵

4. Breaks Down Biofilm

- Data proves HOCl breaks down biofilm produced by various organisms⁶

5. Increases Oxygenation

- Studies have shown increases in oxygenation (TcPO₂) following application of HOCl solution. This has been associated with improved healing⁷

Pre-Procedure & Immediate Post-Procedure Treatment



May be used pre-procedure or post-procedure or where any inflammation or infection is a concern.

LASERCYN™ Dermal Spray is the only product that contains pure stabilized HOCl

- Pre-Procedure and Post-Procedure Cleansing
- Manage Pre- Procedure and Post-Procedure Symptoms
- Stabilized hypochlorous acid, as found in LASERCYN™ Dermal Spray, can be used effectively to treat wounds without the toxicity⁸
- Non-irritating, non-cytotoxic and non-sensitizing, therefore requiring no special handling



Figure 1. Superficial Peel



Figure 2. Chemical Peel



Figure 3. Micro Needling



Figure 6. Surgery



Figure 7. Microdermabrasion



Figure 4. Filler Injection



Figure 5. Ablative and Non-Ablative Laser



LASERCYN™ Gel is intended for the management of post non-ablative laser therapy procedures, post microdermabrasion therapy and following superficial chemical peels.

LASERCYN™ Gel may also be used to relieve itch and pain from minor skin irritations, lacerations, abrasions and minor burns.

LASERCYN™ Gel Features:

- Post-Procedure use is ideal for management of symptoms associated with laser, chemical peels, and microdermabrasion
- Healing benefited by maintaining a moist wound and skin environment
- Steroid free
- Non-oily
- Aesthetically pleasing



HOCl
PERFORMANCE STABILIZED™

Microcyn³
technology

Advanced Scar Management Gel



CELACYN™

ADVANCED SCAR MANAGEMENT HYDROGEL

A proactive, post-procedure and scar management treatment

Treating Post-surgical/ Post-procedural Wounds:

CELACYN™ contains Performance Stabilized **Microcyn® Technology (HOCl)** to help provide an optimal wound healing environment.

- Helps hydrate wounds and maintain an optimally moist wound-healing environment
- Non-staining, non-oily, and fully biodegradable
- Assists in the body's natural process of breaking down damaged tissue while protecting the surrounding skin
- Suitable for all skin types
- Non-irritating, non-sensitizing, and non-cytotoxic
- Softens and flattens raised scars¹
- Reduces redness and discoloration¹
- Relieves scar-associated itch and pain¹
- Clear and fragrance-free treatment that is suitable for all skin types
- Cosmetics can be applied once the area is dry
- Can be used in conjunction with pressure garments

Microcyn³
technology

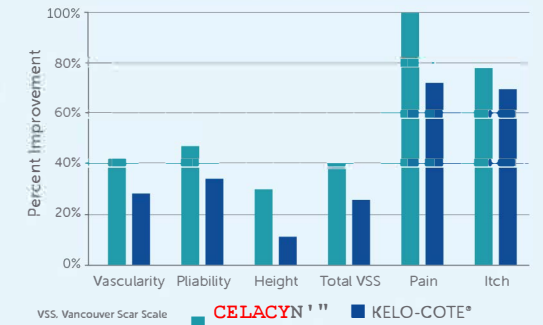


How CELACYN™ works

CELACYN™ seems to have an impact on the three phases of healing at the cellular level.¹

1. **Inflammation (HOCl)**
 - Mast cell degranulation
 - Phospholipase A2
2. **Proliferation (HOCl)**
 - Increased TcPO₂
 - Regranulation
3. **Remodeling (Dimethicone)**
 - Cell attachment
 - Cell movement

Improvement in Appearance and Symptoms Over Baseline at 12 Weeks¹



Actual patient photos



01-007¹
White female with a keloid (6-9 months old) on her left arm due to surgery



03-004¹
White female with linear hypertrophic scar (6-9 months old) on her left hand due to a burn