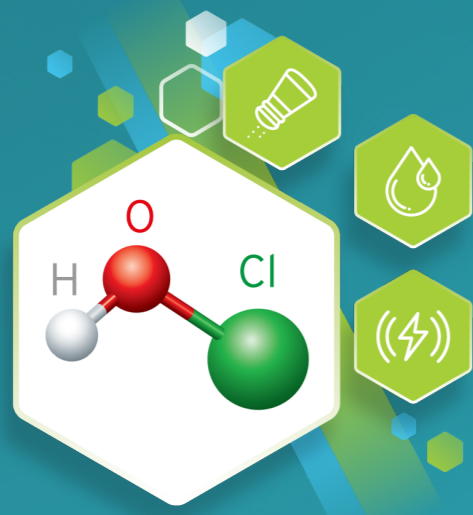


Envirocleanse-A

A Superior HOCL Made in the USA





What is HOCL



Hypochlorous acid (HOCl) is a potent antimicrobial agent naturally produced by the human immune system. It has a broad range of applications in the medical field due to its effectiveness in killing pathogens, promoting healing, and being non-toxic to human tissues.

Medical Applications

Overview

Properties of Hypochlorous Acid

Broad-Spectrum Antimicrobial:

Effective against bacteria, viruses, fungi, and spores.

Anti-Inflammatory:

Reduces redness, swelling, and promotes healing.

Non-Toxic and Biocompatible:

Safe for use on skin and mucous membranes.

Mechanism of Action

Oxidation:

Destroys the cell walls of pathogens through oxidation.

Disruption:

Disrupts the metabolic functions of microbes.

Neutralization:

Neutralizes bacterial toxins and inflammatory mediators.

Applications

- 01 Wound Care
- 02 Surgical Site Care
- 03 Burn Treatment
- 04 Oral Care
- 05 Eye Care
- 06 Disinfection

Medical Applications

01

Wound Care

- **Cleaning and Irrigation:** HOCl solutions are used to clean and irrigate wounds, reducing microbial load and promoting healing.
- **Chronic Wounds:** Effective in managing chronic wounds such as diabetic ulcers, pressure sores, and venous ulcers.

02

Surgical Site Care

- **Preoperative Preparation:** Reduces microbial contamination before surgery.
- **Postoperative Care:** Prevents infections and promotes healing in surgical wounds.

Medical Applications

03

Burn Treatment

- **Infection Control:** Reduces the risk of infection in burn wounds.
- **Soothing and Healing:** Minimizes pain and promotes faster recovery.

04

Oral Care

- **Mouthwashes and Rinses:** Used to reduce oral bacteria, treat gingivitis, and prevent periodontal diseases.
- **Dental Procedures:** Used during dental procedures to maintain sterile conditions.

Medical Applications

05

Eye Care

- **Ophthalmic Solutions:** Used to treat eye infections, reduce inflammation, and manage conditions like blepharitis.

06

Disinfection

- **Medical Equipment:** Disinfects medical instruments and surfaces.
- **Hospital Settings:** Used in hospitals to maintain hygiene and prevent the spread of infections.

Benefits

- **Effective Antimicrobial:** Kills a wide range of pathogens, including antibiotic-resistant strains.
- **Promotes Healing:** Reduces inflammation and accelerates tissue repair.
- **Safe and Non-Irritating:** Suitable for use on sensitive tissues and in various medical applications.
- **Eco-Friendly:** Breaks down into non-toxic substances, making it environmentally safe.

Clinical Evidence

- **Studies:** Numerous clinical studies demonstrate HOCl's effectiveness in reducing infection rates and promoting healing in various medical contexts.
- **Guidelines:** Recommended by various medical guidelines for wound care, surgical preparation, and infection control.

Safety and Precautions

- **Storage:** Should be stored in a cool, dark place to maintain stability.
- **Concentration:** Use appropriate concentrations for specific medical applications to ensure safety and efficacy.
- **Compatibility:** Generally compatible with other medical treatments, but should be used as directed to avoid interactions.

Conclusion

Hypochlorous acid is a versatile, effective, and safe option in the medical field, with applications ranging from wound care to surgical site preparation and disinfection. Its broad-spectrum antimicrobial properties and ability to promote healing make it an invaluable tool in medical practice.

Scientific Studies and Reviews:

Robson, M. C., Payne, W. G., Ko, F., Mentis, M., & Donati, L. (2010). Hypochlorous acid as a potential wound care agent: Part II. Stabilized hypochlorous acid: Its role in decreasing tissue bacterial bioburden and overcoming factors which impair wound healing. *Wounds*, 22(11), 294-299.

Block, M. S., Rowan, B. G. (2020). Hypochlorous acid: A review. *Journal of Oral and Maxillofacial Surgery*, 78(9), 1461-1466. This review discusses the antimicrobial properties and various applications of HOCl in oral and maxillofacial surgery.

Thorn, R. M., Lee, S. W., & Robinson, G. M. (2015). The role of stabilized hypochlorous acid in wound care: A review. *Journal of Wound Care*, 24(2), 53-58.

Wound Care and Clinical Guidelines:

da Silva, A. K., & de Souza, C. P. (2019). Hypochlorous acid: An alternative for the treatment of chronic wounds. *Journal of Dermatological Treatment*, 30(8), 780-785. This study explores the effectiveness of HOCl in chronic wound management.

Leeper, D., & Schultz, G. (2013). How to manage wound infection. *Wounds International*, 4(1), 6-12. This paper includes guidelines recommending the use of HOCl for wound cleaning and infection control.

Oral and Eye Care:

Gottardi, W., Nagl, M. (2010). Active chlorine compounds: Antiseptics against bacteria and viruses. *Journal of Hospital Infection*, 76(4), 246-251. This article reviews the use of HOCl in oral rinses and eye care.

Thie, M., Prager, W., & Borchers, K. (2020). Application of hypochlorous acid in veterinary medicine and its antimicrobial effects. *Veterinary Microbiology*, 244, 108654. Discusses the efficacy of HOCl in reducing microbial presence and inflammation in various medical applications, including eye care.

Disinfection and Environmental Safety:

Rutala, W. A., Weber, D. J. (2019). Disinfection and sterilization in health care facilities: An overview and current issues. *Infection Control & Hospital Epidemiology*, 40(2), 120-126. This overview highlights the use of HOCl for disinfecting medical equipment and hospital environments.

EPA (2020). "Guidance for Hypochlorous Acid Solutions." U.S. Environmental Protection Agency. This document provides safety and usage guidelines for HOCl in various disinfection applications.

These references provide scientific evidence and clinical insights into the efficacy, safety, and various medical applications of hypochlorous acid.

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Thank You

