

## **HOCL Is Safer and More Effective**

**Why is HOCL Safe?** Hypochlorous (HOCL) is a naturally occurring oxidant produced by white blood cells within the human body, acting as the main ingredient used by our immune systems to destroy disease-forming pathogens. Electrochemically engineered HOCL solutions replicate the HOCL produced inside the human body using organic and natural products. Unlike other harsh disinfectants currently used, it contains no bleach, alcohol, or ammonia. Therefore, it is safe for use in schools, daycares, dental and medical clinics, businesses and other public spaces.

### **HOCL Effectiveness and How It Compares with Bleach?**

The cell walls of pathogenic microorganisms are negatively charged by nature. The negative charge of the pathogenic microorganism's cell wall repulses the negative charge of the hypochlorite ions ( $\text{OCl}^-$ ) in bleach making it a weak disinfectant.

**HOCL's** neutral charged molecule easily penetrates the cell wall, making it a very effective disinfectant. HOCL effectively penetrates slime layers, cell walls and protective layers of microorganisms (see below.) Microorganisms quickly die or are made non-functional by reproductive failure. HOCL is 80-100 times more effective and exceeds the disinfecting properties of bleach (a hypochlorite) by up to 300 times

The pH neutral hypochlorous (HOCL) can penetrate cell walls of pathogenic microorganisms whereas the negatively charged hypochlorite ion ( $\text{OCl}^-$ ) cannot penetrate cell walls.

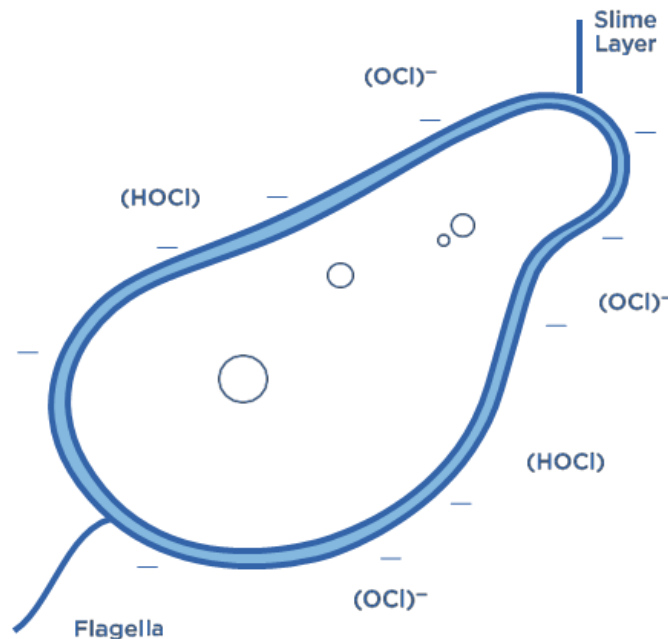


Image and some text courtesy of AQUAFOX™



Arcus Manufacturing, LLC, 432 N Airport Rd, Cedar City UT (435) 261-3976  
HOCLsafeV3 [Arcusmanufacturing.com](http://Arcusmanufacturing.com) [Contact@arcusbuilt.com](mailto:Contact@arcusbuilt.com)



QR Arcus Website

## **HOCL Is Safer and More Effective**

HOCL products have been independently laboratory-tested and proven to be effective against a wide range of microorganisms. HOCL products have been tested to rigorous internationally recognized standards, and have proved effective against microorganisms including, but not limited to:

**Escherichia coli (E coli)**

**Hepatitis A, B, & C**

**Herpes type 1 (HSV1)**

**Listeria**

**Influenza including H1N1, H5N1 & H7N9**

**Salmonella choleraesuis**

**Staphylococcus aureus (including MRSA)**

**Swine Influenza Virus (H1N1)**

**Infectious bronchitis**

**HIV Type 1 (HIV-1)**

**Human Coronavirus, Strain 229E**

**SARS-CoV-2**

**Salmonella enterica**

**Trichophyton Interdigitale (Ringworm)**

**Polio enterovirus 1 & 2**

**Mycobacteria tuberculosis**

**Norovirus (Human and Murine)**

**Clostridium difficile (C. Diff)**

**Aspergillus niger (Black mold)**

**Candida albicans (Yeast)**

**Stachybotrys (Black Mold)**

**Powdery mildew**

**Trichophyton mentagrophytes**

**Adenovirus type 4**

**Campylobacter jejuni**

**Bacteriophage MS2**

**Enterococcus species**

**Legionella pneumophila**

**Helicobacter pylori**

**Pseudomonas aeruginosa**

**Vancomycin Resistant Enterococcus(VRE)**

**Mycobacterium avium intracellulare**

**Mycobacterium bovis (BCG)**

**Clostridium sporogenes**

**Acinetobacter baumannii**

**Orthopoxvirus**

**Bacillus cereus**

**Bacillus subtilis**

**MS2 virus**

**Zygosaccharomyces bailii**

**Candida albicans**

**Cryptosporidium muris**

**Cryptosporidium parvum**

**Botrytis (grape mold)**

*Arcus Manufacturing, LLC manufactures Safe and Simple Disinfecting Equipment. Arcus' cutting edge technology leads the industry in design and function for ultra-dry mist application. Combining this patent-pending technology with hypochlorous, Arcus has developed the safest and most effective disinfecting system of its kind available.*

