



**Vorigen<sup>®</sup>, INC.**

is a patented Silver Ion Generator/Ultraviolet Light System, providing the best water security available.

For additional information:  
[www.vorigen.com](http://www.vorigen.com)

**The Best Water Security and Protection System Available.**

**Vorigen<sup>®</sup>, INC.**  
Silver Ion Generator/Ultraviolet Light System

**Natural Disasters  
Bioterrorist Attacks  
Waste Water Contamination  
Hospital Acquired Infections  
Vulnerable Water Supplies**

Vorigen<sup>®</sup>, Inc. provides continuous, proactive security and protection of water supplies.



Silver Ion Generator/Ultraviolet Light System

**Vorigen®, Inc. has designed and manufactured a cutting-edge system for killing microorganisms and disinfecting water.** This system weds ultraviolet light, which kills instantaneously, with Vorigen®, Inc.'s patented silver-ion generator, which provides residual kill over a period of 5 to 7 days. This unparalleled instantaneous and long-term protection makes Vorigen® the best-available water security and protection system on the market today.

The scientific literature provides ample documentation for the microbiocidal properties of ultraviolet light and silver ions. Ultraviolet light provides **instant disinfection** and silver ions provide **long-term, residual destruction**. The Vorigen®, Inc. system is the first to combine ultraviolet light with a user-friendly, low-maintenance silver-ion generator. Studies conducted on both disinfection methods have documented their **lethality for a broad range of waterborne bacteria, viruses, protozoa, spores, and fungi**. Among the specific threats that ultraviolet light and silver ions can defeat are: Bacillus anthracis (Anthrax – a CDC Category A bioterrorism agent), Escherichia coli (E. coli), Salmonella, Mycobacterium, MRSA (resistant staph infection), and Legionella (Legionnaires disease). These studies have demonstrated that low concentrations – fewer than one hundred parts per billion – of silver ions and ultraviolet light suffice to kill commonly found waterborne microorganisms.

## Drinking Water

As a water protection and security system, the Vorigen®, Inc. Silver Ion Generator/Ultraviolet Light system increases water safety when installed in a drinking water supply. The system provides drinking water free of harmful waterborne microorganisms. In the event of external contamination of the water supply (waterborne microbial contaminants) the Vorigen®, Inc. system provides **immediate and ongoing security and protection**.

## Biofilm

The biofilm found in water systems provides a “breeding ground” for bacteria. Studies conducted in health-care environments have identified hot-water-system biofilm as a source of bacteria known to cause nosocomial infections.

The Vorigen®, Inc. Silver Ion Generator/Ultraviolet Light system **controls biofilm**, reducing the likelihood of infections caused by waterborne bacteria. The control of water-system biofilm also increases the operating life of equipment and provides an inherently safer distribution system in the event of a biological attack.

Extensive testing at the Campbell Health System facility in Weatherford, Texas has established the effectiveness of the Vorigen®, Inc. Silver Ion Generator for the destruction and elimination of biofilm.

## Decontamination

In the event of an anthrax attack, the Vorigen®, Inc. Silver Ion Generator/Ultraviolet Light system generates **safe, clean water for personnel/equipment decontamination**.

The use of silver-ion-containing water during the decontamination process provides “flushing and rinsing” with a disinfectant – silver ions – during the decontamination procedure.

Medications containing silver play a prominent role in the care of wounds. Flushing and rinsing with water treated with silver ions provides an immediate first line defense to infections (should it prove necessary to decontaminate wounded or injured personnel).