

BioBarrier® MarineMBR® Press Release  
FOR IMMEDIATE RELEASE

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## **Announcing Scienco Danolyte System Now Available at Scienco/FAST**

*With 100x the power of bleach, Scienco Danolyte disinfectant is a powerful antimicrobial fluid for use across a broad spectrum of applications, yet gentle enough for use on baby toys.*

SUNSET HILLS, MO, July 2020 – Scienco/FAST, a subsidiary of BioMicrobics, Inc., provides water treatment solutions to the Healthcare, Food & Bev, Agriculture, and Marine industries. The unique technology of the Scienco® Danolyte® DJIT (Danolyte-Just-In-Time) machine offers innovative disinfection, sanitizing and deodorizing solutions for many industries other than first responders including water treatment, agriculture, oil and gas, health care, education, and food service/processing. It has been shown effective over many years of use and is effective over a broad range of viruses and bacteria such as MRSA, HIV, Listeria, Influenza A, Hepatitis C and Salmonella among many others.

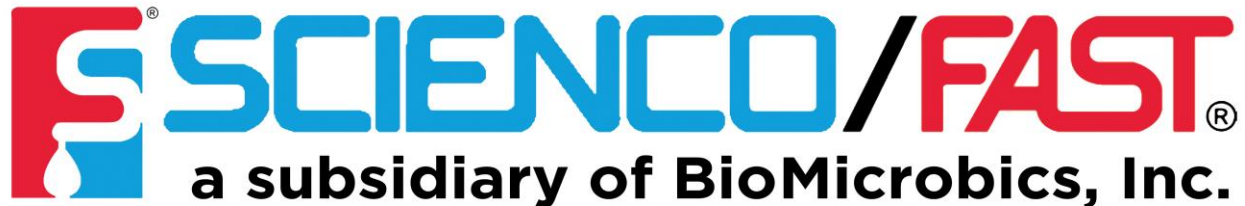
With College Campuses and restaurants adopting ongoing disinfection maintenance to prepare for the CDC response to opening their facilities, a sodium hypochlorous Acid generator provides a disinfectant solution (listed with the US EPA) to spray the surfaces of frequently touched areas to control the spread of bacteria and viruses.

With salt, water, and a low energy electrolytic process, the Scienco® Danolyte® DJIT System is:

- **EFFECTIVE** - Hypochlorous acid kills bacteria, bacterial spores, viruses, and fungi 100x more effectively than chlorine bleach.
- **EFFICIENT** - Hypochlorous acid is generated on-site at preset concentrations using Scienco Danolyte systems; no storing or mixing toxic chemicals required.
- **GENTLE** – Hypochlorous acid is a non-toxic, eco-friendly, no rinse solution that is no more corrosive than demineralize water and is produced with only water, salt and electricity

Simple, Low Cost, and Robust, the Scienco® Danolyte® Sodium Hypochlorous Acid generator process passes brine through an electrolysis cell containing an anode and a cathode, then the electrolyzed Hypochlorous Acid is generated. Manipulating the pH is the secret behind our proprietary technology, which typically has a pH of 6.5; at this pH, more than 90% of the free available chlorine is HOCl, less than 10% OCl<sup>-</sup> and no Cl<sub>2</sub> are formed.

When the liquid is sprayed with an electro-static sprayer in rooms, galleys, cabins, etc., it will kill all surface bacteria and viruses. The Scienco® Danolyte® is highly effective in removing biofilm; eradicating molds/fungus; and leaving no harmful residuals. The solution produced kills 99.9% of every pathogen; including E. Coli (Escherichia coli), Pseudomonas, Enterococcus, C. Diff spores, and staphylococcus. Unlike many other sanitation chemicals, hypochlorous acid does not have an ongoing antimicrobial effect. Hypochlorous acid carries no electrical charge, it moves quickly, oxidizing bacteria in a matter of seconds, while the hypochlorite ion bleach might take up to a half hour to do the same. Germ surfaces carry a negative electrical charge which results in a repulsion of the negatively charged hypochlorite ion (bleach) to the area of the germ surfaces, making hypochlorite ion less effective at killing germs. Hypochlorous acid's lack of electrical charge allows it to more efficiently penetrate the protective barriers surrounding germs.



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Scienco® Danolyte® System is optimized for energy-saving. The concentration of Free Available Chlorine (FAC) is 500 PPM. Its advantages over traditional disinfection fluids and system includes many benefits to create “on demand” and “ready-to-use” disinfectant for Janitorial & Maintenance services to the Healthcare, food & Beverage, and among other commercial settings:

- Healthcare & Hospitality
- Agricultural: Food Crops & Animal Husbandry
- Food & Beverage Processing & Handling
- Public Touch Screens & Surfaces
- Public & Commercial Transit
- Public/Sports Parks & Walk Ways
- Commercial Kitchens & Food Service
- Oil & Gas & Marine Industry

The process technology produces a stable hypochlorous acid (HOCl) that is fully automated to adjust accordingly with proprietary controllers and takes reading every millisecond. This helps reduce operational costs by up to 35% with fully optimized process. The resulting slightly acidic to neutral pH balanced solution is non-corrosive and fully compatible with water systems. With remote maintenance capabilities that notifies to Maintenance Staff for User interaction.

The resulting solution is also EPA registered and listed for usage as a “hospital level” disinfectant & sanitizer with a broad spectrum, bactericidal/virucidal capabilities. It has been added to the EPA N1 list and can be used against SAR-CoV-2 on hard porous/non-porous surfaces.

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**About Scienco/FAST, a subsidiary of BioMicrobics, Inc.:** Internationally recognized for quality products and top-notch field services, Scienco/FAST is an original equipment manufacturer specializing in sewage and water treatment equipment for the marine industry, these marine sewage systems, and other industrial water management technologies help keep your vessel in compliance. Since the first installation in 1969 on board the Towboat, M/V Missouri, these MarineFAST® Sewage Treatment Systems are installed on some of the ‘greenest’ boats in the world to provide total sewage treatment, pretreatment, and (in some cases) water reuse opportunities. The MarineFAST units provide outstanding effluent quality and starts up much faster than conventional suspended growth processes – usually in half the time!

**What makes Scienco/FAST so great?** Our Products, Policies, and People! With decades of experience in our respective fields, the Scienco/FAST team of marine engineers, drafters, technical engineers for sizing and regulations, manufacturing, and field experts brings creative and diverse perspectives for marine sanitation solutions.