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**For Immediate Release**

**MRSA Prevention Solutions**

**Innovative Fosshield® Antimicrobial Technology  
Shown to Continuously Kill MRSA ‘Superbug’**

**Self-Sanitizing Fiber Reduces Bacteria to Levels below Detection;  
Can Provide Permanent Protection in Everyday Products**

Hampton, New Hampshire – October 30, 2007 – Foss Manufacturing Company, the first company to successfully embed a natural balance of silver and copper into fiber, has today announced that its Fosshield® patented technology is 99.99 percent effective in killing methicillin-resistant *Staphylococcus aureus* (MRSA) bacteria to below the level of detection within one hour. The self-sanitizing fiber, soon to be used in a wide range of products found in schools, offices, homes, and communal environments, provides continuous antimicrobial protection against MRSA. MRSA is a type of *Staphylococcus aureus* (staph) resistant to certain antibiotics including methicillin and the more common antibiotics such as oxacillin, penicillin, cephalexin and amoxicillin. MRSA incidence is on the rise in the U.S. and it has now become recognized as a major community-acquired pathogen and growing crisis.

“Results from our independent laboratory studies have shown that the Fosshield® technology kills MRSA, as well as a broad spectrum of bacteria capable of transmission by contact, to levels below detection within one hour and in some instances less than 10 minutes, and also exhibits anti-viral activity,” said Charles P. Gerba, Ph.D., Professor of Environmental Microbiology, Department of Soil, Water and Environmental Science at University of Arizona.

According to Dr. Gerba, MRSA survives longer on fabric than other surfaces. Therefore, the Fosshield® technology becomes part of the long-term solution to this crisis and an integral part of environmental counter-strategies in the fight against the spread of antibiotic-resistant infection.

“The key to the effectiveness of Fosshield's antimicrobial agent is the unique and balanced combination of nature's own active ingredients -- silver and copper – embedded into the fiber,” said Dave Cicchinelli, Executive Vice President of Marketing at Foss Manufacturing. “Moisture in the environment, the same moisture required for microbes to grow, initiates the release of silver and copper ions from the fibers on demand. These ions disable the microbe's metabolism, inactivating them. The potential for continuous release ensures long lasting antimicrobial performance.”

“This ability to inactivate microbes in the environment on a continuous basis is important because bacteria, including MRSA, can survive in a variety of conditions for long periods of time and can spread via dust particles, clothing, furniture, or hospital equipment that have been in contact with infected patients,” according to Dr. Gerba. “MRSA is emerging and spreading worldwide, and the number of infections is increasing outside the hospital setting. Therefore, it is important to broaden our arsenal beyond therapeutic options to include built-in protective measures involving high-traffic areas and materials in our environment.”

### **MRSA and Broad-Spectrum Protection Data**

In independent studies led by Dr. Gerba, Fosshield® Antimicrobial Technology was shown to continuously kill MRSA and a number of other bacteria including Streptococcus pyogenes (strep), Legionella pneumophila (Legionnaires’ disease), Haemophilus influenzae (flu) and Tuberculosis (TB). Results indicated a consistent and significant reduction in bacteria after one hour. More extensive evaluation studies are also underway for viruses.

“Consumers are becoming increasingly aware of the threat of germs and mold, and the significant health risk bacteria is causing in our schools, homes, offices and cars,” continued Dave Cicchinelli. “Fosshield® can provide continuous, affordable and natural antimicrobial protection in those fabrics surrounding us everyday. Manufacturers of consumer goods are responding with a wide variety of Fosshield® applications in apparel/footwear, carpeting, wall covering, linens, hospitality, filtration, healthcare and transportation.”

### **From Technology to Product - SpectraShield™ 9900 Respirator Mask**

One of the most high profile product applications of the Fosshield® technology is Nexera Medical’s SpectraShield™ 9900 Antibacterial Respirator Mask which recently received a Medical Device Establishment License by Health Canada for distribution in Canada. The SpectraShield™ 9900 is believed to be the only face mask today that is approved to provide ‘dual-action’, broad-spectrum protection, which may be critical in the event of a major public health crisis. Nexera Medical, Inc. has filed for regulatory approval with the FDA and NIOSH in the United States, and is seeking approval in the European Union, Australia and Japan.

### **About Fosshield® Antimicrobial Technology**

Fosshield®, employing Agion® Technology, is the only patented silver-copper based fiber technology that safely, naturally, and continuously inhibits the growth of destructive and odor-causing bacteria, mold, mildew, and viruses. Unlike other antimicrobials that are applied only via topical coatings, the additive in Fosshield® is embedded into the fiber during manufacturing process, providing the most effective exposure to contaminants. This antimicrobial fiber technology is safe for prolonged contact with humans, environmentally safe, and does not contribute to the growing concern of antibiotic resistance. Soon Fosshield® will be available in many fabric uses, including face masks, linens, clothing, carpeting, wallcoverings, and car interiors to increase product life and reduce microbial growth. For more information on Fosshield®, visit [www.fosshield.com](http://www.fosshield.com).

## **About Agion Technologies, Inc.**

Founded in 1997, Agion Technologies, Inc. is the leader in providing safe, natural antimicrobial solutions based on silver, "Nature's Antimicrobial." The company is dedicated to developing consumer- and environmentally-friendly solutions for antimicrobial protection. Agion works in close partnership with companies, helping them to apply its patented technology to deliver differentiated, customized solutions for a wide range of products in the consumer, industrial and healthcare markets. Agion's antimicrobial technology has been incorporated into products including cell phones, shoes, keyboards, pens, water filters, air conditioning and heating units, medical catheters, ice machines, and faucet handles. Agion's antimicrobial technology has an extensive and comprehensive international regulatory portfolio. Its customers include leading brands such as Motorola, AK Steel, Carrier, DuPont, Honeywell, Adidas, Sanford/Paper Mate, Ice-O-Matic, Scotsman, Stanley Bostitch, and Oster. For more information about Agion Technologies, visit [www.agion-tech.com](http://www.agion-tech.com)

## **About Nexera Medical, Inc.**

Nexera Medical, Inc. is engaged in the development; manufacturing and distribution of antimicrobial respirator and surgical masks, as well as other antimicrobial textile based medical products such as medical slings, surgical site aprons and hospital linen products worldwide. Headquartered in Fort Lauderdale, Florida, the company's mission is to create high-quality, cutting-edge health related medical products designed to safeguard and enhance the quality of human life. All of Nexera's products are designed to provide maximum protection against microorganisms such as bacteria, virus and fungi using Fosshield® patented technology. Nexera partners with governments and leaders in the healthcare industry in the fight against viral pandemic and other healthcare crises. For more information, visit [www.nexeramed.com](http://www.nexeramed.com).

## **About Foss Manufacturing, LLC**

Foss Manufacturing Company, LLC has been a global leader in the design and manufacture of non-woven fabrics and specialty synthetic fiber technology for more than 50 years. As one of the world's largest needle-punch based manufacturers, the company provides highly-specialized, cost-effective solutions that are custom-tailored to meet the needs of virtually all applications and markets. Foss is the leader in bringing new and improved non-woven products to market through its commitment to innovation and extensive research and development. Based in Hampton, New Hampshire, all of Foss Manufacturing Company's business units are ISO 9001 and QS 9000 certified. For more information on Foss Manufacturing Company, visit [www.fossmfg.com](http://www.fossmfg.com).

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