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Healthy Environment
Innovations

Press Release

Healthy Environment Innovations successful test of Sterilray™ Technology.

MRSA reduced by 100% in test.

New Durham, NH, January 3, 2007: Healthy Environment Innovations (HEI) released results of the next round of tests on the efficacy of its Sterilray™ Technology using the GermBuster™ Sanitation Wand. The test was performed at Microbiology Research Associates, Inc. in Acton, MA. Testing Methicillin-resistant Staphylococcus aureus (Clinical Isolate; MRSA) produced the following result:

- A dense aggregate of MRSA bacteria was exposed to a dose of 50 mj/cm². A complete kill, representing a 100% reduction, occurred representing a log 6.3 reduction.

Methicillin-resistant Staphylococcus Aureus (MRSA) is a bacterial organism that is resistant to many antibiotics. These include methicillin and other more common penicillin derivatives such as oxacillin, penicillin and amoxicillin. Staph infections, including MRSA, occur most frequently among persons in hospitals and healthcare facilities (such as nursing homes and dialysis centers) who have weakened immune systems.

“HEI conducted this test with a special low-power Sterilray™ lamp in order to control the amount of exposure. The lamp is 1/30 the power we will use in the sanitation wand,” said Ed Neister, president of HEI. “This test proves that we can disinfect surfaces contaminated with MRSA in less than one second using a GermBuster™ Sanitation Wand.”

“MRSA is a problem in many facilities.” said John Neister, EVP. “The GermBuster™ Sanitation Wand is a quick, safe method used to disinfect common contact surfaces that are the pathways used by contagious infectious diseases such as MRSA.”

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For more information, press only: John Neister, 603-859-8600, john.neister@he-innovations.com

For more information on GermBuster™ Sanitation Wand: <http://www.he-innovations.com>

For Immediate Release

**MICROBIOCIDAL ACTIVITY OF GERMBUSTER STERILRAY UV WAND PRODUCT
VS. METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS**

Tested for: Healthy Environmental Innovations
PO Box 61
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Product: Germbuster Sterilray UV Wand

Method: Percent Bacterial Reduction

Investigator: James J Barbato
Microbiology Research Associates, Inc.
33 Nagog Park
Acton, MA 01720

Project #: HEI-003 **Report #:** HEI003-005

Notebook Reference: Book 96, Page 2-4

Test Organism:

1. *Methicillin Resistant Staphylococcus aureus* (Clinical Isolate) (MRSA)

Method and Procedure: Method: Study #HEI-003

Conclusions:

The Germbuster Sterilray UV Wand product killed 100% of viable MRSA in 12 seconds of exposure to 50 mj/cm of UV exposure.

Results:

Table I

**Percent Bacterial Reduction of
Gerbuster Sterilray UV Wand
vs. Methicillin Resistant *Staphylococcus aureus***

** Exposure Time (Sec)	Test Organisms	Time 0 Count/ml	UV Intensity mj/cm²	CFU/ml After Exposure	% Reduction
12	MRSA	2.2×10^6	50/cm ²	0	100

1-0327

Date


James J. Barbato, M.S., M.P.H.
President

****HEI conducted this test with a special low-power Sterilray™ lamp in order to control the amount of exposure. The lamp is 1/30 the power that will be used in the sanitation wand. This would result in an exposure of less than 0.4 seconds.**

MRSA



Unexposed 10^{-3}



50 mj/cm²

GermBuster™
Using **Sterilray™** Technology