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Healthy Environment
Innovations

Press Release

Healthy Environment Innovations successful test of Sterilray™ Technology.

Acinetobacter baumannii reduced by 100% in two tests.

New Durham, NH, December 19, 2006: Healthy Environment Innovations (HEI) released results in the first of a series of tests on the efficacy of its Sterilray™ Technology using the GermBuster™ Sanitation Wand. The tests were performed at Microbiology Research Associates, Inc. in Acton, MA. Testing *Acinetobacter baumannii* ATCC #19606 with the following results:

- A low quantity of *Acinetobacter* bacteria were exposed to a dose of 20 mj/cm². A complete kill representing 99.997% reduction occurred representing a log 4.5 reduction.
- A high quantity of *Acinetobacter* bacteria were exposed to a dose of 60 mj/cm². A complete kill representing 99.99998% reduction occurred representing a log 6.7 reduction.

Acinetobacter is a [Gram-negative genus](#) of bacteria belonging to the [phylum Proteobacteria](#). **Non-motile**, Since the start of the [Iraq War](#), over 300 cases of *A. baumannii* had infected U.S. soldiers in the [Middle East](#). At least five have died.

“This is the first of a series of tests we will be performing using the GermBuster™ Sanitation Wand.” said Ed Neister, president of HEI. “Two different doses were used on two different samples to confirm the process. It validates our research that we can disinfect surfaces in less than one second.”

“Sterilray™ technology is a step change in the ability to kill the DNA of pathogens.” said John Neister, EVP. “The GermBuster™ Sanitation Wand is a quick, safe method to disinfect common contact surfaces that are the pathways used by contagious infectious diseases to spread quickly.”

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Sterilray™ and Germbuster™ are registered trademarks of Healthy Environment Innovations. in the United States and/or other countries.

For more information: John Neister, 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. ACINETOBACTER BAUMANNII ATCC 19606**

Tested for: Healthy Environmental Innovations
PO Box 61
152 Brackett Road
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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-001 **Report #:** HEI001-001

Notebook Reference: Book 95, Page 90-91

Test Organisms:

1. *Acinetobacter baumannii* ATCC #19606

Method and Procedure: Method: Study #HEI-001

Conclusions:

1. The Germbuster Sterilray UV Wand product killed 3.25×10^4 viable *Acinetobacter baumannii* in <5 seconds of exposure to 20 mj of UV exposure.
2. The Germbuster Sterilray UV Wand product killed 4.8×10^6 viable *Acinetobacter baumannii* in <5 seconds of exposure to 60 mj of VU exposure.

Results:

Table I

Percent Bacterial Reduction of
Gerbuster Sterilray UV Wand
vs. *Acinetobacter baumannii*


Test Organisms	Time 0 Count/ml	UV Intensity 20 mj	CFU/ml After Exposure	% Reduction
<i>A. baumannii</i>	3.25×10^4	** <5 sec	0	100%

Table II

Percent Bacterial Reduction of
Gerbuster Sterilray UV Wand
vs. *Acinetobacter baumannii*

Test Organisms	Time 0 Count/ml	UV Intensity 60 mj	CFU/ml After Exposure	% Reduction
<i>A. baumannii</i>	4.8×10^6	** <5 sec	0	100%

12-18-06
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 0.16 seconds.