

**MICROBIOCIDAL ACTIVITY OF GERMBUSTER STERILRAY UV WAND PRODUCT
VS. BACILLUS ATROPHAEUS SPORE SUSPENSION ATCC 9372**

Tested for: Healthy Environmental Innovations
PO Box 61
152 Brackett Road
New Durham, NH 03855

Product: Germbuster Sterilray UV Wand

Method: Percent Bacterial Reduction

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Project #: HEI-004 **Report #:** HEI004-008

Notebook Reference: Book 96, Page 81-83

Test Organism:

1. *Bacillus atrophaeus* Spore Suspension ATCC #9372

Method and Procedure: Method: Study #HEI-003

Conclusions:

1. The Germbuster Sterilray UV Wand product killed >99.99% of *Bacillus atrophaeus* spores dried on a glass slide in 25 seconds of exposure to 100mj/cm of UV exposure.

Results:

Table I
Percent Bacterial Reduction of
Gerbuster Sterilray UV Wand
vs. *Bacillus atrophaeus* Spore Suspension

** Exposure Time (Sec)	Test Organisms	Time 0 Count/ml	UV Intensity mj/cm²	CFU/ml After Exposure	% Reduction
25	<i>B. atrophaeus</i> (dry slide)	1.72x10 ⁴	100.6/cm ²	1.0x10 ⁰	>99.99

1-7-87
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 0.83 seconds.**