

**MICROBIOCIDAL ACTIVITY OF GERMBUSTER STERILRAY UV WAND PRODUCT  
VS. COLSTRIDIUM SPOROGENES ATCC #19404**

**Tested for:** Healthy Environmental Innovations  
PO Box 61  
152 Brackett Road  
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**Product:** Germbuster Sterilray UV Wand

**Method:** Percent Bacterial Reduction

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**Project #:** HEI-004                      **Report #:** HEI004-007

**Notebook Reference:** Book 96, Page 81-83

**Test Organism:**

1. *Clostridium sporogenes*                      ATCC #19404

**Method and Procedure:**              Method: Study #HEI-004

**Conclusions:**

The Germbuster Sterilray UV Wand product killed 100% of viable *Clostridium sporogenes* in 22 seconds of exposure to 83.1. mj/cm of UV exposure.

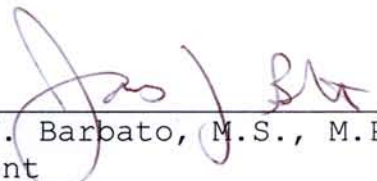
**Results:**

**Table I**  
**Percent Bacterial Reduction of**  
**Gerbuster Sterilray UV Wand**  
**vs. *Clostridium sporogenes* ATCC #19404**

<b>** Exposure Time (Sec)</b>	<b>Test Organism</b>	<b>Time 0 Count/ml</b>	<b>UV Intensity mj/cm<sup>2</sup></b>	<b>CFU/ml After Exposure</b>	<b>% Reduction</b>
22	<i>C. sporogenes</i>	4.2x10 <sup>6</sup>	*83.1/cm <sup>2</sup>	0	100

\*Exposed to 42 mj of UV light, mixed and exposed to another 41.1 mj.

1-15-07  
Date

  
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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 0.73 seconds.**