

**BIODECONTAMINATION SERVICE**

**ionized Hydrogen Peroxide (iHP™)  
6-Log Reduction**

**EFFICACY AGAINST MICROBIAL PATHOGENS**

Organism	Classification	Log Reduction	Lab
Bacillus atrophaeus <sup>1</sup>	Bacterial Spore	>8.3	1
Geobacillus stearothermophilus	Bacterial Spore	>6.3	3/6
Bacillus subtilis	Bacterial Spore	>6.0	1
Clostridium difficile spores <sup>3</sup>	Bacterial Spore	>6.0	3/6
Escherichia coli	Gram Negative	>7.4	2
Pseudomonas aeruginosa <sup>3</sup>	Gram Negative	>6.0	5/6
Serratia marcescens	Gram Negative	>6.0	3
Salmonella enterica <sup>3</sup>	Gram Negative	>5.5	7
Staphylococcus aureus <sup>3</sup>	Gram Negative	>7.4	2/6
Methicillin-resistant Staphylococcus aureus (MRSA) <sup>3</sup>	Gram Negative	>5.9	6
Bacillus atrophaeus vegetative cells	Gram Negative	>9.0	1
Aspergillus Niger	Mold	>8.0	4
Aspergillus species	Mold	>7.0	2
Cladosporium species	Mold	>7.0	2
Pencillium species	Mold	>7.0	2
Stachybotrys chartarum	Mold	>7.0	4
Trichophyton mentagrophytes	Mold	>6.0	4
Human rhinovirus 16 <sup>2</sup>	Virus	>6.8	3
Influenza A (H1N1) <sup>3</sup>	Virus	>10	6
Norovirus <sup>3</sup>	Virus	>6.4	7
Adenovirus	Virus	>5.8	7

**Notes**

- <sup>1</sup> Bacillus astrophaues is a surrogate for Bacillus anthracis (Anthrax)
- <sup>2</sup> Human Influenza virus (Flu) surrogate
- <sup>3</sup> EPA Registered

**Testing Labs**

- 1. University of South Florida Center for Biological Defense
- 2. Microbial Insights
- 3. L-3 Communications
- 4. Microbiotest
- 5. Beckman Coulter
- 6. Accuratus Labs (formerly ATS) EPA Testing Lab
- 7. Microchem