

EFFICACY AGAINST MICROBIAL PATHOGENS

Organism	Classification	Log Reduction	Lab
Bacillus atrophaeus ²	Bacterial Spore	>8.3	1
Geobacillus stearothermophilus	Bacterial Spore	>6.3	3/6
Bacillus subtilis	Bacterial Spore	>6.0	1
Clostridium difficile	Bacterial Spore	>6.0	3/6
Escherichia coli	Gram Negative	>7.4	2
Pseudomonas aeruginosa	Gram Negative	>6.0	5/6
Serratia marcescens	Gram Negative	>6.0	3
Staphylococcus aureus ¹	Gram Positive	>7.4	2/6
Methicillin-resistant Staphylococcus aureus (MRSA)	Gram Positive	>5.9	6
Bacillus atrophaeus vegetative cells ²	Gram Positive	>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 ³	Mold	>7.0	4
Trichophyton mentagrophytes	Mold	>6.0	4
Human rhinovirus 16 ⁴	Virus	>6.8	3
Influenza A (H1N1)	Virus	>10	6

Notes

¹ Staphylococcus aureus is equivalent to MRSA (Methicillin Resistant Staphylococcus Aureus)

² Bacillus atrophaeus is a surrogate for Bacillus anthracis (Anthrax)

³ S. chartarum, commonly referred to as “Black Mold”, produces a toxin making people sick in contaminated buildings

⁴ Human Influenza virus (Flu) surrogate

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

EPA Accepted GLP Studies
Internationally Accepted GLP Studies