

EFFICACY AGAINST MICROBIAL PATHOGENS

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

EPA Accepted GLP Studies / Internationally Accepted GLP Studies

TESTING LABS

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

NOTES

¹Bacillus atrophaeus is a surrogate for Bacillus anthracis (Anthrax) | ²Human Influenza virus (Flu) surrogate | ³EPA Registered

⁴According to the EPA and CDC, a Clostridium difficile product is also effective against Candida auris

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