



## EFFICACY AGAINST MICROBIAL PATHOGENS

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

EPA Accepted GLP Studies  
Internationally Accepted GLP Studies

### 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



## EFFICACY AGAINST 42 MOLDS AND FUNGI COMMONLY FOUND IN INFECTED BUILDINGS

The purpose of the testing was to determine if BIT<sup>TM</sup> would be an applicable technology for the remediation of mold infested homes and buildings. The results of the tests are summarized in the following table.

In the following table spore loads for the referenced fungi were reduced from 107 spores/cm<sup>2</sup> to undetectable levels in 15 seconds.

Aspergillus expansum	Geotrichum candidum	Penicillium roquefortii
Aspergillus parasiticus	Memnoniella echinata	Penicillium verrucosum
Aspergillus restrictus	Mucor racemosus	Penicillium brevicompactum
Aspergillus sydowii	Mycothecium verrucaria	Rhizopus stolonifer
Aspergillus tamarii	Paecilomyces lilacinus	Scopulariopsis asperula
Aspergillus terreus	Paecilomyces varioti	Scopulariopsis brevicaulis
Aspergillus ustus	Penicillium atramentosum	Scopulariopsis brumptii
Aspergillus versicolor	Penicillium cluysogenum	Scopulariopsis chartarum
Aspergillus wentii	Penicillium citrinum	Stachybotrys chartarum
Cladosporium cladoporioides Type 1	Penicillium corylophilum	Trichoderma hamatum
Cladosporium cladoporioides	Penicillium crustosum	Trichoderma harzianum
Cladosporium herbarum	Penicillium glandicola	Trichoderma longibranchiatum
Cladosporium sphaerospermen	Penicillium griseofulvum	Ulocladium chartarum
Eurotium arnstelodami	Penicillium olsonii	Wallemia sebi