STERAMIST™

BIT binary ionization technology

FASTEST.CLEANEST.SAFEST.

THE SPARK OF INNOVATION

When you must protect delicate tissues during recovery and processing, SteraMist™ is a critical component of your operation. SteraMist, utilizing patented Binary Ionization Technology (BIT®), assures that micro organisms (including spores) are destroyed in even the most hard-to-reach areas. The process applies cold plasma activation to a hydrogen peroxide based aerosol to create Reactive Oxygen Species (ROS). SteraMist provides fast acting, broad spectrum biological disinfection, and leaves no residue or noxious fumes. The environmentally friendly characteristics ensures safety for your employees and equipment, while providing maximum biological log reduction for the recovery and processing of human tissues for transplant.

- Sporicidal
- Faster
- Residual Free
- Economical
- Automatic
- Portable

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STERAMIST Efficacy on Biological Organisms

General Efficacy Testing on Biological Organisms

SURFACE CONDITIONS	ORGANISM	LOG REDUCTION	COMMENTS (Exposure Duration)	Testing Lab
Hydrophobic Microbial Filter Material	Bacillus Atrophaeus Spores	>8.3	Dry Spore (60 sec)	1
Ceramic Tile	Bacillus Atrophaeus Spores	>7.4	Dry Spore (45 sec)	1
Hydrophobic Microbial Filter Material	Bacillus Atrophaeus Vegetative Cells	>9.0	Gram Positive (60 sec)	1
Ceramic Tile	Escherichia Coli Cells	>7.4	Gram Negative (30 sec)	2
Ceramic Tile	Staphylococcus Aureus Cells	>7.4	Gram Positive (45 sec)	2
Ceramic Tile	Stachybotrys Chartarum Spores	>6.9	Gram Positive (5 sec)	2
Ceramic Tile	Pseudomonas Aeruginosa Cells	>8.4	Water borne (45 sec)	2
Ceramic Tile	Virus Bacteriophage P22 HT 105	>5.6	Virus (60 sec)	2
Hydrophobic Microbial Filter Material	Serratia Marcescens	>6.0	Hand Cleaning Standard (15 sec)	3
Stainless Steel	Bacillus Stearothermophilus Spores	>6.26	H_2O_2 Resistant Spore (60 sec)	3
Glass	Aspergillus Niger	>8.0	(30 sec) EPA DIS/TSS	3
Glass	Stachybotrys Chartarum	>7.0	(30 sec) EPA DIS/TSS	4
Glass	Trichophyton Mentagrophytes	>6.0	(30 sec) EPA DIS/TSS	4
Glass	P. Aeruginosa	>4.0	(30 sec) EPA DIS/TSS	4
Glass	S. Aureus	>5.0	(30 sec) EPA DIS/TSS	4
Glass	S. Choleraesius	>4.0	(30 sec) EPA DIS/TSS	4
Glass	Escherichia Coli	>4.0	(30 sec) EPA DIS/TSS	4

Aseptic Processing, Critical Device and Healthcare Testing

SURFACE CONDITIONS	ORGANISM	LOG REDUCTION	COMMENTS (Exposure Duration)	Testing Lab
Stainless Steel	Bacillus Subtilis	>6.0	Sterility Indicator (<30 sec)	1
Stainless Steel	Bacillus	>6.0	H202 Resistant (<30 sec)	1
Stainless Steel	Pseudomonas	>6.0	Indicator For Aqueous Contamination (<30 sec)	5
Filter Paper	Serratia Marcescens	>6.0	Indicator For Hand Contamination (<30 sec)	3

Reduction of Fungi Spores from 10^7 spores/cm^2 to Undetectable Levels in 15 Seconds

SURFACE CONDITIONS	ORGANISM	LOG REDUCTION	COMMENTS (Exposure Duration)	Testing Lab
Glass	Aspergillus Expansum	>7.0	(15 sec)	2
Glass	Aspergillus Parasiticus	>7.0	(15 sec)	2
Glass	Aspergillus Restrictus	>7.0	(15 sec)	2
Glass	Aspergillus SydowiiCladosporium Cladosporiodes Type 1	>7.0	(15 sec)	2
Glass	Cladosporium Cladosporiodes	>7.0	(15 sec)	2
Glass	Cladosporium Herbarum	>7.0	(15 sec)	2
Glass	Cladosporium Sphaerospermen	>7.0	(15 sec)	2
Glass	Penicillium Atramentosum	>7.0	(15 sec)	2
Glass	Penicillium Chrysogenum	>7.0	(15 sec)	2
Glass	Penicillium Citrinum	>7.0	(15 sec)	2
Glass	Stachybotrys Chartarum	>7.0	(15 sec)	2

Testing Labs	
1. University of South Florida Center for Biological Defense	4. Microbiotest
2. Microbial Insights	5. Beckman Coulter
3. L-3 Communications	

Data collected in independent and in-house testing. L-3 makes no claims on product performance. Cleared for Public Domain release by DTRA Public Affairs, dated 05 October 2007.