

PATHOSANS EFFICACY SUMMARY

TARGET ORGANISMS	SIGNIFICANCE OF TEST	METHOD	CONTACT TIME	FREE AVAILABLE CHLORINE CONCENTRATION	SURFACE
Campylobacter jejuni	Indicate efficacy against target organisms at significantly reduced contact times	Time kill assay for antimicrobial agents	10 seconds	200 PPM	Pre-cleaned, hard, non-porous
Listeria monocytogenes					
Salmonella enterica					
Pseudomonas aeruginosa					
Methicillin Resistant Staphylococcus aureus - MRSA			30 seconds		
Feline Calicivirus (norovirus surrogate)			1 minute		
Clostridium perfringens					

* Method requirements from Environmental Protection Agency (EPA) Product Performance Test Guidelines OSCPP 810.2200. Not an approval from the EPA.

**The PathoSans Cleaning and Sanitizing System is regulated as a pesticide device manufactured at EPA establishment number 88161-IL-002.

PATHOSANS EFFICACY SUMMARY

TARGET ORGANISMS	SIGNIFICANCE OF TEST	METHOD*	CONTACT TIME	FREE AVAILABLE CHLORINE CONCENTRATION	SURFACE
Campylobacter jejuni	This organism is second to salmonella in terms of food spoilage.	AOAC Use-Dilution Method	10 Minutes	200 PPM	Pre-cleaned, hard, non-porous
Salmonella enterica	Efficacy against these organisms are required by the EPA for food contact surface sanitizers.	AOAC Available Chlorine in Disinfectants	1 minute		Pre-cleaned hard non-porous
Staphylococcus aureus					
Salmonella enterica	Efficacy against these organisms are required by the EPA for broad spectrum hospital disinfectants.	AOAC Use-Dilution Method 961.02			Pre-cleaned hard non-porous
Staphylococcus aureus					
Pseudomonas aeruginosa					
Listeria monocytogenes	Efficacy demonstrated against additional organisms. Many organisms are antibiotic resistant and known to cause different kinds of infections.	AOAC Use-Dilution Method 961.02	10 minutes	165 PPM	Pre-cleaned hard non-porous
Burkholderia cepacia		AOAC Use-Dilution Method with 5% soil load			Hard non-porous
Methicillin Resistant Staphylococcus aureus - MRSA					
Vancomycin Resistant Enterococcus faecalis - VRE					
New Delhi metallo-beta-lactamase 1 (NDM-1) producing Klebsiella pneumoniae					
Legionella pneumophila					
Escherichia coli					
Trichophyton mentagrophytes					

* Method requirements from Environmental Protection Agency (EPA) Product Performance Test Guidelines OSCPP 810.2200. Not an approval from the EPA.

**The PathoSans Cleaning and Sanitizing System is regulated as a pesticide device manufactured at EPA establishment number 88161-IL-002.

PATHOSANS EFFICACY SUMMARY

TARGET ORGANISMS	SIGNIFICANCE OF TEST	METHOD*	CONTACT TIME	FREE AVAILABLE CHLORINE CONCENTRATION	SURFACE
Non-Enveloped	EPA recognized efficacy claims against various viruses.	AOAC Use-Dilution Method with 5% soil load	10 minutes	165 PPM	Hard non-porous
Poliovirus type 1					
Feline Calicivirus (norovirus surrogate)					
TARGET ORGANISMS	SIGNIFICANCE OF TEST	METHOD*	CONTACT TIME	FREE AVAILABLE CHLORINE CONCENTRATION	SURFACE
Enveloped	EPA recognized efficacy claims against various viruses.	AOAC Use-Dilution Method	10 minutes	200 PPM	Pre-cleaned, hard, non-porous
Bovine Viral Diarrhea virus (Hepatitis C surrogate)					
Human Coronavirus				170 PPM	
Human Immunodeficiency virus type 1 (HIV-1)		AOAC Use-Dilution Method with 5% soil load		165 PPM	Hard non-porous
Influenza A (H1N1) virus					
2009-H1N1 Influenza A virus (Novel H1N1)					
Herpes simplex virus type 2					
Avian Influenza A (H7N9) virus					
SARS-Related Coronavirus 2, BEI Resources NR-52281, Strain Isolate USA-WA1/2020		ASTM E1053 - Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces with 5% soil load		165 PPM	Hard non-porous
SARS-Related Coronavirus 2, BEI Resources NR-52281, Strain Isolate USA-WA1/2020		ASTM E1053 - Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces			

* Method requirements from Environmental Protection Agency (EPA) Product Performance Test Guidelines OSCPP 810.2200. Not an approval from the EPA.

**The PathoSans Cleaning and Sanitizing System is regulated as a pesticide device manufactured at EPA establishment number 88161-IL-002.