PATHOCIDE® 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					
Feline Calicivirus (norovirus surrogate)			30 seconds		
Clostridium perfringens			1 minute		

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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	165 PPM	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	10 minutes		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			Pre-cleaned hard non-porous
Burkholderia cepacia		AOAC Use-Dilution Method with 5% soil load			Hard non-porous surface
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	Efficacy is required by the EPA against this fungus for claims against pathogenic fungi.	AOAC Fungicidal Use-Dilution Method with 5% soil load			

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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					

* Method requirements from Environmental Protection Agency (EPA) Product Performance Test Guidelines OSCPP 810.2200.
**The PathoSans Cleaning and Sanitizing System is regulated as a pesticide device manufactured at EPA establishment number 88161-IL-002.