

## PATHOCIDE® 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 surface		
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					Pre-cleaned hard non-porous		
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					Pre-cleaned hard non-porous		
Pseudomonas aeruginosa					Pre-cleaned hard non-porous		
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	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			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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<b>Non-Enveloped</b>	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)					

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<b>Enveloped</b>	EPA recognized efficacy claims against various viruses.	AOAC Use-Dilution Method	10 minutes	200 PPM	Pre-cleaned, hard, non-porous surface
Bovine Viral Diarrhea virus (Hepatitis C surrogate)					
Human Immunodeficiency virus type 1 (HIV-1)				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-IN-001.

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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 surface
Listeria monocytogenes					
Salmonella enterica					
Pseudomonas aeruginosa					
Methicillin Resistant Staphylococcus aureus - MRSA					
Feline Calicivirus (norovirus surrogate)			30 seconds		