

KLARION SANITIZER EFFICACY

Solutions produced by the Klarion system are just as effective as — or more effective than — traditional chemicals.

Sanitizer Effectiveness: Time Kill Assay for Antimicrobial Agents, 10 to 60 Second Contact Time

TARGET ORGANISMS	CONTACT TIME	FREE AVAILABLE CHLORINE CONCENTRATION	SURFACE
Campylobacter jejuni	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		
Clostridium perfringens	60 seconds		

Sanitizer Effectiveness: Time Kill Assay for Antimicrobial Agents, Contact Time Based on EPA Standards

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 nonporous		
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				
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 with 5% soil load			10 minutes	165 PPM	Hard non-porous
Burkholderia cepacia							
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							

Cleaning Effectiveness: Time Kill Assay for Antimicrobial Agents, Contact Time Based on EPA Standards

TARGET ORGANISMS	SIGNIFICANCE OF TEST	METHOD	CONTACT TIME	FREE AVAILABLE CHLORINE CONCENTRATION	SURFACE
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	10 minutes	165 PPM	Hard non-porous
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)					
Enveloped		AOAC Use-Dilution Method		200 PPM	Pre-cleaned, hard, non-porous surface
Bovine Viral Diarrhea virus (Hepatitis C surrogate)					
Human Coronavirus		AOAC Use-Dilution Method with 5% soil load		170 PPM	Hard non-porous
Human Immunodeficiency virus type 1 (HIV-1)					
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 Klarion Cleaning and Sanitizing System is regulated as a pesticide device manufactured at EPA establishment number 88161-IL-002.



From *Spraying Systems Co.*

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