

Disinfex

Efficacy Data

VIRUCIDAL DATA

Test Method: *U.S E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, 1982, Section 91-30 (d) (5), "Disinfectants – Efficacy against Viruses", pp. 72-76. Protocols for Testing the Efficacy of Disinfectants against Hepatitis B Virus (HBV) (EPA, Federal Register, Vol. 65, No. 166, 8/25/2000, p. 51828). Protocol for Testing Disinfectants against Hepatitis C Virus using Bovine Viral Diarrhea Virus as approved by the U.S. EPA on August 15, 2002.

Test Conditions: Ready-To-Use (RTU), 5% organic soil load, room temperature, glass petri dish substrates, contact time (see below)

TEST ORGANISM	CONTACT TIME	SAMPLE	TITER REDUCTION
Avian Influenza Virus (H5N1) NIBRG-14 (Charles River Laboratories)	30 seconds	A	>3.00 log ₁₀
		B	>3.00 log ₁₀
Bovine Viral Diarrhea Virus (BVDV) (American BioResearch Laboratories)	1 minute	A	>5.00 log ₁₀
		B	>5.00 log ₁₀
Canine Parvovirus Type 2b (American BioResearch Laboratories)	2 minutes	A	>3.65 log ₁₀
		B	>3.65 log ₁₀
Duck Hepatitis B Virus (DHBV) (LeGath strain) (HepadnaVirus Testing)	1 minute	A	>3.39 log ₁₀
		B	>3.39 log ₁₀
Feline Calicivirus (FCV) (University of Ottawa)	2 minutes	A	>6.40 log ₁₀
		B	>6.40 log ₁₀
Hepatitis B Virus (HBV) (LeGath strain) (HepadnaVirus Testing)	1 minute	A	>3.39 log ₁₀
		B	>3.39 log ₁₀
Hepatitis C Virus (HCV) (American BioResearch Laboratories)	1 minute	A	>5.00 log ₁₀
		B	>5.00 log ₁₀
Human Immunodeficiency Virus Type 1 (HIV-1) (Zeptomatrix)	30 seconds	A	>3.38 log ₁₀
		B	>3.38 log ₁₀
Human Rotavirus (ATCC VR-2018)	1 minute	A	>3.50 log ₁₀
		B	>3.50 log ₁₀
Norovirus (Norwalk Virus) (University of Ottawa)	2 minutes	A	>6.40 log ₁₀
		B	>6.40 log ₁₀
Pandemic 2009 H1N1 Influenza A Virus	(Refer to Note below)		
Poliovirus Type 1 (ATCC VR-1562)	5 minutes	A	>3.67 log ₁₀
		B	>3.67 log ₁₀
		C	>3.67 log ₁₀
Rhinovirus Type 14 (ATCC VR-284)	2 minutes	A	>3.65 log ₁₀
		B	>3.65 log ₁₀
Rhinovirus Type 39 (ATCC VR-340)	2 minutes	A	>4.50 log ₁₀
		B	>4.50 log ₁₀

CORONAVIRUS DISEASE 2019

Note:

According to Health Canada, Disinfex demonstrates effectiveness against COVID-19 in < 2 minutes when the following virucidal claims are met:

- Poliovirus Type 1
- Bovine parvovirus
- Canine Parvovirus
- Feline Calicivirus
- Norovirus



Under the conditions of these investigations, Disinfex was virucidal against Avian Influenza Virus (H5N1), Bovine Viral Diarrhea Virus (BVDV), Canine Parvovirus, Duck Hepatitis B Virus, Feline Calicivirus (FCV), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Human Immunodeficiency Virus Type 1 (HIV-1), Human Rotovirus, Norovirus (Norwalk Virus), Pandemic 2009 H1N1 Influenza A Virus, Poliovirus Type 1, Rhinovirus Type 14 and Rhinovirus Type 39 according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

Note: Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.

Disinfex

Efficacy Data

DISINFECTION DATA

Test Method: AOAC Germicidal Spray Products as Disinfectants

Test Conditions: Ready-To-Use (RTU), 2 minute contact time, 5% organic soil load, room temperature, glass slide carrier substrates

TEST ORGANISM	SAMPLE	NO. OF CARRIERS	
		EXPOSED	POSITIVE
Pseudomonas aeruginosa (ATCC 15442)	A	60	0
	B	60	0
	C	60	0
Salmonella enterica (ATCC 10708)	A	60	0
	B	60	0
	C	60	0
Staphylococcus aureus (ATCC 6538)	A	60	0
	B	60	1
	C	60	0
Extended Spectrum Beta-Lactamase (ESBL) Escherichia coli (ATCC BAA-196)	A	10	0
	B	10	0
Klebsiella pneumoniae New Delhi Metallo-Beta Lactamase (NDM-1) Carbapenem Resistant (CDC Clinical Isolate)	A	10	0
	B	10	0
Methicillin Resistant Staphylococcus aureus (MRSA) (ATCC 33591)	A	10	0
	B	10	0
Multi-Drug Resistant (MDR) Acinetobacter baumannii Ceftazidime and Gentamicin resistant (ATCC BAA-1605)	A	10	0
	B	10	0
Vancomycin resistant Enterococcus faecium (VRE) (ATCC 51559)	A	10	0
	B	10	0



Under the conditions of these investigations, Disinfex demonstrated disinfectant activity against Pseudomonas aeruginosa, Salmonella enterica, Staphylococcus aureus, Extended Spectrum Beta-Lactamase (ESBL) Escherichia coli, Klebsiella pneumoniae New Delhi Metallo-Beta Lactamase (NDM-1) Carbapenem resistant, Methicillin Resistant Staphylococcus aureus (MRSA), Multi-Drug Resistant (MDR) Acinetobacter baumannii Ceftazidime and Gentamicin resistant and Vancomycin resistant Enterococcus faecium (VRE) according to criteria established by the U.S.

Environmental Protection Agency for registration and labeling of a limited disinfectant product as a bactericide.

NON-FOOD CONTACT SANITIZATION DATA

Test Method: Sanitizer Test for Inanimate Non-Food Contact Surfaces (EPA DIS/TSS-10, 07 Jan 82)

Test Conditions: Ready-To-Use (RTU), 5% organic soil load, room temperature, contact time (see table)

TEST ORGANISM	CONTACT TIME	SAMPLE	TITER REDUCTION
Avian Influenza Virus (H5N1) NIBRG-14 (Charles River Laboratories)	5 seconds	A	>99.9
		B	99.9
		C	>99.9
Bovine Viral Diarrhea Virus (BVDV) (American BioResearch Laboratories)	5 seconds	A	>99.9
		B	99.9
		C	>99.9

Under the conditions of these investigations, Disinfex demonstrated sanitizing activity against Staphylococcus aureus and Klebsiella pneumonia according to criteria established by the U.S.

Environmental Protection Agency for registration and labeling of a disinfectant product as a sanitizer.