



# Disinfex

## Efficacy Data

DIN: 02414341

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

### 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 Rotavirus, 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.





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## 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
Staphylococcus aureus (ATCC 6538)	5 seconds	A	>99.9
		B	99.9
		C	>99.9
Klebsiella pneumoniae (ATCC 4352)	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.

