



Chemclean Corporation

INDUSTRIAL CHEMICAL SPECIALISTS

130-45 180th STREET, SPRINGFIELD GARDENS, NEW YORK 11434 TEL: (718) 525-4500 FAX (718)481-6470

EFFICACY DATA for CHEMCLEAN KEN-L-KLEEN EPA Reg. No. 1839-100-12007

VIRUCIDAL DATA:

Test Methods:

* U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, 1982, Section 91-30, pp. 72-76.

† Virucide Assay (EPA, Federal Register 10, No. 123, 6/25/75, p. 26836).

‡ 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: 10 minute contact time, glass petri dish substrates, tested in the presence of serum

Results:

Test Organism	Dilution	Sample		Titer Reduction	
		A	B		
† Adenovirus Type 2	1 oz/gal	A	B	3.0 log ₁₀	>3.0 log ₁₀
‡ Bovine Viral Diarrhea (BVDV)	1 oz/gal	A	B	6.1 log ₁₀	3.8 log ₁₀
* Canine Distemper Virus (ATCC VR-128)	1 oz/gal	A	B	>3.82 log ₁₀	>3.82 log ₁₀
* Feline Calicivirus (FCV)	1 oz/gal	A	B	5.79 log ₁₀	>6.06 log ₁₀
† Herpes Simplex Type 1 (Sabin)	1 oz/gal	A	B	>4.0 log ₁₀	>3.7 log ₁₀
† Influenza A ₂ (Japan 305/57)	1 oz/gal	A	B	>6.5 log ₁₀	>6.0 log ₁₀
* Norovirus (Norwalk Virus)	1 oz/gal	A	B	5.79 log ₁₀	>6.06 log ₁₀
* Pseudorabies virus (ATCC VR-135)	1 oz/gal	A	B	>3.84 log ₁₀	>3.84 log ₁₀
† Vaccinia (Wyeth)	1 oz/gal	A	B	>3.5 log ₁₀	>3.5 log ₁₀
* Canine Adenovirus	4 oz/gal	A	B	4.83 log ₁₀	4.83 log ₁₀
* Canine Coronavirus	4 oz/gal	A	B	3.00 log ₁₀	3.33 log ₁₀
* Canine Parainfluenza Virus (CPI/PI-2)	4 oz/gal	A	B	3.0 log ₁₀	3.0 log ₁₀
* Canine Parvovirus Type 2 (CPV-2b/Eu)	4 oz/gal	A	B	>3.27 log ₁₀	>3.27 log ₁₀
* Feline Coronavirus	4 oz/gal	A	B	4.0 log ₁₀	4.0 log ₁₀
* Feline Panleukopenia Virus	4 oz/gal	A	B	4.0 log ₁₀	4.0 log ₁₀
* Feline Picornavirus (ATCC VR-653)	4 oz/gal	A	B	4.0 log ₁₀	4.0 log ₁₀
* Feline Rhinotracheitis Virus	4 oz/gal	A	B	>4.83 log ₁₀	>4.83 log ₁₀
* Porcine Parvovirus	4 oz/gal	A	B	4.0 log ₁₀	4.0 log ₁₀

Conclusion: Under the conditions of this investigation, Veterinarian Type Disinfectant was **virucidal at 1:128** against Adenovirus Type 2, Bovine Viral Diarrhea Virus (BVDV), Canine Distemper Virus, Feline Calicivirus (FCV), Herpes Simplex Type 1 (Sabin), Influenza A₂ (Japan 305/57), Norovirus (Norwalk Virus), Pseudorabies virus and Vaccinia (Wyeth) and **at 4:128** against Canine Adenovirus, Canine Coronavirus, Canine Parainfluenza Virus, Canine Parvovirus Type 2, Feline Coronavirus, Feline Panleukopenia Virus, Feline Picornavirus, Feline Rhinotracheitis Virus, and Porcine Parvovirus according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.



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DISINFECTION DATA:

Test Method: AOAC Use Dilution

Test Conditions: 5% blood serum, 10 minute contact time, 20°C exposure temperature
stainless steel carrier substrates

Results:

Test Organism	Dilution	Sample	No. of Carriers		Dilution	PHENOL RESISTANCE		
			Exposed	Positive		Exposure Time (min.) vs. Growth		
						5	10	15
<i>Staphylococcus aureus</i> (ATCC 6538)	1 oz/gal	A	60	0	1:60	+	0	0
		B	60	0	1:70	+	+	+
		C	60	0				
<i>Salmonella choleraesuis</i> (ATCC 10708)	1 oz/gal	A	60	0	1:90	+	0	0
		B	60	0	1:100	+	+	+
		C	60	0				
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	1 oz/gal	A	60	1	1:80	+	0	0
		B	60	0	1:90	+	+	+
		C	60	0				
<i>Enterobacter aerogenes</i> (ATCC 13048)	1 oz/gal	A	10	0	1:80	+	0	0
		B	10	0	1:90	+	+	+
<i>Escherichia coli</i> (ATCC 11229)	1 oz/gal	A	10	0	1:90	+	0	0
		B	10	0	1:100	+	+	+
<i>Klebsiella pneumoniae</i> (ATCC 4352)	1 oz/gal	A	10	0	1:60	+	0	0
		B	10	0	1:70	+	+	+
<i>Salmonella schottmuelleri</i> (ATCC 8759)	1 oz/gal	A	10	0	1:90	+	0	0
		B	10	0	1:100	+	+	+
<i>Shigella dysenteriae</i> (ATCC 12180)	1 oz/gal	A	10	0	1:90	+	0	0
		B	10	0	1:100	+	+	+
<i>Streptococcus faecalis</i> (ATCC 10541)	1 oz/gal	A	10	0	1:70	+	0	0
		B	10	0	1:80	+	+	+
<i>Bordetella bronchiseptica</i> (ATCC 19395)	4 oz/gal	A	10	0	Not determined; published information not available.			
		B	10	0	Not determined; published information not available.			

+ = growth 0 = no growth

Conclusion:

Under the conditions of these investigations, Chemclean KEN-L-KLEEN demonstrated disinfectant activity at 1:128 against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Enterobacter aerogenes*, *Escherichia coli*, *Klebsiella pneumoniae*, *Salmonella schottmuelleri*, *Shigella dysenteriae* and *Streptococcus faecalis*, and at 4:128 against *Bordetella bronchiseptica* according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.



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MILDEW FUNGISTATIC DATA:

Test Method: Hard Surface Mildew Fungistatic Test (Unofficial Protocol, 10/27/76)

Test Organism: *Aspergillus niger* (ATCC 6275)

Test Conditions: tile substrates

Results:

<u>Sample</u>	<u>Dilution</u>	<u>No. of Exposed Tiles</u>	<u>No. of Tiles Showing Growth</u>
Veterinary Type Disinfectant	1 oz/gal	10	0
Control	-	10	10

Conclusion:

Under the conditions of this investigation, Chemclean KEN-L-KLEEN was **fungistatic** for *Aspergillus niger* according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungistat.