



## EFFICACY DATA for VETERINARIAN TYPE DISINFECTANT (EPA Reg. No. 1839-100)

### DISINFECTION DATA:

**Test Method:** AOAC Use Dilution

**Test Conditions:** 5% organic soil load, 10 minute contact time, 20°C exposure temperature  
stainless steel carrier substrates

### Results:

Test Organism	Dilution	Sample	No. of Carriers	
			Exposed	Positive
<i>Staphylococcus aureus</i> (ATCC 6538)	1 oz/gal	A	60	0
		B	60	0
		C	60	0
<i>Salmonella choleraesuis</i> (ATCC 10708)	1 oz/gal	A	60	0
		B	60	0
		C	60	0
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	1 oz/gal	A	60	1
		B	60	0
		C	60	0
<i>Enterobacter aerogenes</i> (ATCC 13048)	1 oz/gal	A	10	0
		B	10	0
<i>Escherichia coli</i> (ATCC 11229)	1 oz/gal	A	10	0
		B	10	0
<i>Klebsiella pneumoniae</i> (ATCC 4352)	1 oz/gal	A	10	0
		B	10	0
<i>Salmonella schottmuelleri</i> (ATCC 8759)	1 oz/gal	A	10	0
		B	10	0
<i>Shigella dysenteriae</i> (ATCC 12180)	1 oz/gal	A	10	0
		B	10	0
<i>Streptococcus faecalis</i> (ATCC 10541)	1 oz/gal	A	10	0
		B	10	0
<i>Bordetella bronchiseptica</i> (ATCC 19395)	4 oz/gal	A	10	0
		B	10	0

**Conclusion:** Under the conditions of these investigations, Veterinarian Type Disinfectant 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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**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 organic soil load

**Results:**

<u>Test Organism</u>	<u>Dilution</u>	<u>Sample</u>	<u>Titer Reduction</u>
†Adenovirus Type 2	1 oz/gal	A	3.0 log <sub>10</sub>
		B	>3.0 log <sub>10</sub>
‡Bovine Viral Diarrhea (BVDV)	1 oz/gal	A	6.1 log <sub>10</sub>
		B	3.8 log <sub>10</sub>
*Canine Distemper Virus (ATCC VR-128)	1 oz/gal	A	≥3.82 log <sub>10</sub>
		B	>3.82 log <sub>10</sub>
*Feline Calicivirus (FCV)	1 oz/gal	A	5.79 log <sub>10</sub>
		B	>6.06 log <sub>10</sub>
†Herpes Simplex Type 1 (Sabin)	1 oz/gal	A	≥4.0 log <sub>10</sub>
		B	≥3.7 log <sub>10</sub>
†Influenza A <sub>2</sub> (Japan 305/57)	1 oz/gal	A	>6.5 log <sub>10</sub>
		B	>6.0 log <sub>10</sub>
*Norovirus (Norwalk Virus)	1 oz/gal	A	5.79 log <sub>10</sub>
		B	>6.06 log <sub>10</sub>
†Pandemic 2009 H1N1 Influenza A Virus	1 oz/gal	(Refer to NOTE on next page.)	
*Pseudorabies virus (ATCC VR-135)	1 oz/gal	A	≥3.84 log <sub>10</sub>
		B	≥3.84 log <sub>10</sub>
†Vaccinia (Wyeth)	1 oz/gal	A	>3.5 log <sub>10</sub>
		B	>3.5 log <sub>10</sub>
*Canine Adenovirus	4 oz/gal	A	4.83 log <sub>10</sub>
		B	4.83 log <sub>10</sub>
*Canine Coronavirus	4 oz/gal	A	3.00 log <sub>10</sub>
		B	3.33 log <sub>10</sub>
*Canine Parainfluenza Virus (CPI/PI-2)	4 oz/gal	A	3.0 log <sub>10</sub>
		B	3.0 log <sub>10</sub>
*Canine Parvovirus Type 2 (CPV-2b/Eu)	4 oz/gal	A	≥3.27 log <sub>10</sub>
		B	≥3.27 log <sub>10</sub>
*Feline Coronavirus	4 oz/gal	A	4.0 log <sub>10</sub>
		B	4.0 log <sub>10</sub>
*Feline Panleukopenia Virus	4 oz/gal	A	4.0 log <sub>10</sub>
		B	4.0 log <sub>10</sub>
*Feline Picornavirus (ATCC VR-653)	4 oz/gal	A	4.0 log <sub>10</sub>
		B	4.0 log <sub>10</sub>
*Feline Rhinotracheitis Virus	4 oz/gal	A	≥4.83 log <sub>10</sub>
		B	≥4.83 log <sub>10</sub>
*Porcine Parvovirus	4 oz/gal	A	4.0 log <sub>10</sub>
		B	4.0 log <sub>10</sub>

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**VIRUCIDAL DATA (continued):**

**Conclusion:** Under the conditions of this investigation, Veterinarian Type Disinfectant demonstrated **virucidal** activity **at 1:128** against Adenovirus Type 2, Bovine Viral Diarrhea Virus (BVDV), Canine Distemper Virus, Feline Calicivirus (FCV), Herpes Simplex Type 1 (Sabin), Influenza A<sub>2</sub> (Japan 305/57), Norovirus (Norwalk Virus), Pandemic 2009 H1N1 Influenza A 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.

**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.

**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, Veterinarian Type Disinfectant demonstrated **fungistatic** activity against *Aspergillus niger* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungistat.



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**BACTERICIDAL STABILITY DATA OF USE-SOLUTION:**

**Test Method:** Use Dilution

**Test Conditions:** 1 oz/gal dilution, 10 minute contact time, 5% organic soil load,  
deionized water, 20°C exposure temperature, stainless steel carrier substrates

**Storage Conditions:** sealed containers at room temperature

**Results:**

<u>Test Time</u>	<u>Sample</u>	<u>Test Organism</u>	<u>No. of Carriers</u>		
			<u>Exposed</u>	<u>Positive</u>	
Zero Time	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0	
		<i>Salmonella enterica</i> (ATCC 10708)	10	0	
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0	
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0	
		<i>Salmonella enterica</i> (ATCC 10708)	10	0	
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0	
	Week 1	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
			<i>Salmonella enterica</i> (ATCC 10708)	10	0
			<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
B		<i>Staphylococcus aureus</i> (ATCC 6538)	10	0	
		<i>Salmonella enterica</i> (ATCC 10708)	10	0	
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0	
Week 2		A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
			<i>Salmonella enterica</i> (ATCC 10708)	10	0
			<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0	
		<i>Salmonella enterica</i> (ATCC 10708)	10	0	
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0	
	Week 3	A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
			<i>Salmonella enterica</i> (ATCC 10708)	10	0
			<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
B		<i>Staphylococcus aureus</i> (ATCC 6538)	10	0	
		<i>Salmonella enterica</i> (ATCC 10708)	10	0	
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0	
Week 4		A	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0
			<i>Salmonella enterica</i> (ATCC 10708)	10	0
			<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0
	B	<i>Staphylococcus aureus</i> (ATCC 6538)	10	0	
		<i>Salmonella enterica</i> (ATCC 10708)	10	0	
		<i>Pseudomonas aeruginosa</i> (ATCC 15442)	10	0	

**Conclusion:** The results of this investigation show that a 1 oz/gal use dilution of Veterinarian Type Disinfectant will demonstrate disinfectant efficacy against *Staphylococcus aureus*, *Salmonella enterica* and *Pseudomonas aeruginosa* for up to 4 weeks in accordance with criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.