



EXPEL

Detergent Disinfectant

EPA Registration Number: 1839-83-71663
Description: Detergent Disinfectant Pump Spray

VIRUCIDAL DATA:

Test Method: USPEA Pesticide Assessment Guidelines, Subdivision G:
Product Performance, Section 91-2(f) and Section 91-30 (d, e)
November, 1982

Test Conditions: 5% Serum
10 minute contact time
Glass petri dish substrates

Results:

Test Organism	DDPS Sample	Titer Reduction (after 10 minute contact)
Poliovirus Type 1, strain Brunhilde (ATCC VR-1000)	A	≥ 3.25 log
	B	≥ 3.25 log
Human Immunodeficiency Virus HTVL-III _{RF} strain of HIV-1 (associated with AIDS)	A	≥ 3.25 log
	B	≥ 3.25 log
Canine Parvovirus (ATCC VR-2017)	A	≥ 3.25 log
	B	≥ 3.25 log

Conclusions:

Under the conditions of this investigation, Detergent Disinfectant Pump Spray (DDPS) was virucidal for *Poliovirus Type I*, *Human Immunodeficiency Virus (HIV-1)* and *Canine Parvovirus* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

BACTERICIDAL AND FUNGICIDAL DATA:**Test Methods:** AOAC Germicidal Spray Products as Disinfectants**Test Conditions:** 5% serum
10 minute contact time
Glass slide carrier substrates
Model 4 Bakan 22/145 pump sprayer or equivalent**Results:**

<u>Organism</u>	<u>DDPS Sample</u>	<u>No. of Carriers</u> <u>Exposed</u> <u>Positive</u>		<u>Dilution</u>	<u>PHENOL RESISTANCE</u> Exposure time (min)		
					vs. Growth		
					<u>5</u>	<u>10</u>	<u>15</u>
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	0	1:60	+	0	0
	B	60	0	1:70	+	+	+
	C	60	0				
<i>Salmonella Choleraesuis</i> (ATCC 10708)	A	60	0	1:90	+	0	0
	B	60	0	1:100	+	+	+
<i>Pseudomonas</i> <i>Asruginosa</i> PRD-10 (ATCC 15422)	A	60	0	1:80	+	0	0
	B	60	0	1:90	+	+	+
	C	60	0				
<i>Escherichia Coli</i> 0157:H7 (ATCC 35150)	A	10	0	A phenol control was not performed due to lack of data available for this strain of test organism.			
	B	10	0				
<i>Trichophyton</i> <i>Mentagropyntes</i> (ATCC 9533)	A	60	0	1:60	+	0	0
	B	60	0	1:70	+	+	+
	C	60	0				

+ = growth 0 = no growth

Conclusion:

Under the conditions of this investigation, Detergent Disinfectant Pump Spray (DDPS) was bactericidal for *Staphylococcus aureus*, *Salmonella Choleraesuis*, *Pseudomonas aeruginosa* and *Escherichia coli* 0157:H7 and fungicidal for *Trichophyton Mentagropyntes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

TUBERCULOCIDAL DATA:**Test Method:** AOAC confirmative In Vitro Test for Determining Tuberculocidal Activity**Test Organism:** *Mycobacterium bovis* BCG (OT 105401)**Test Conditions:** 5% serum
10 minute contact time
Glass slide carrier substances**Results:**

<u>Subculture Media</u> (days)	<u>DDPS Sample</u>	<u>No. of Exposed Carriers</u>	<u>No. of Carriers showing growth (after 10 min contact)</u>	<u>PHENOL RESISTANCE</u>		
				<u>Dilution</u>	<u>No. of Carriers showing growth (62 days)(90 days)</u>	
Modified Proskauer-Beck Medium	A	10	0	1:50	0	0
	B	10	0	1:75	0	0
Middlebrook 7HP Broth	A	10	0	1:50	0	0
	B	10	0	1:75	10	10
Kirchners Medium	A	10	0	1:50	0	0
	B	10	0	1:75	5	6

Conclusion:

Under the conditions of this investigation, Detergent Disinfectant Pump Spray (DDPS) was tuberculocidal for *Mycobacterium bovis* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a tuberculocide.

MILDEW FUNGISTATIC DATA:

Test Method: EPA Hard Surface Mildew Fungistatic Test

Test Organism: *Aspergillus niger* (ATCC 6275)

Test Conditions: Glazed ceramic tile substrates

Results:

<u>Sample</u>	<u>No. of exposed tiles</u>	<u>No. of Tiles showing Growth</u>
DDPS	10	0
Control	10	10

Conclusion:

Under conditions of this investigation, Detergent Disinfectant Pump Spray (DDPS) 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.