

# 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	$\geq 3.25$ log
	B	$\geq 3.25$ log
Human Immunodeficiency Virus HTVL-III <sub>RF</sub> strain of HIV-1 (associated with AIDS)	A	$\geq 3.25$ log
	B	$\geq 3.25$ log
Canine Parvovirus (ATCC VR-2017)	A	$\geq 3.25$ log
	B	$\geq 3.25$ 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.

## 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:

Subculture Media	DDPS Sample	No. of Exposed Carriers	No. of Carriers showing growth (after 10 min contact)	<u>PHENOL RESISTANCE</u>		
				Dilution	No. of Carriers showing growth (62 days)(90 days)	
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.

## 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>Dilution</u>	<u>PHENOL RESISTANCE</u>		
					<u>Exposure time (min)</u>		
					<u>vs. Growth</u>		
		<u>Exposed</u>	<u>Positive</u>		<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 Choleraesuls</i> (ATCC 10708)	A	60	0	1:90	+	0	0
	B	60	0	1:100	+	+	+
<i>Pseudomonas 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 Mentagropytes</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 Mentagropytes* according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

**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.