

# Efficacy Data for Mopec PathWipes

EPA REG. NO. 1839-174-74952 EPA EST. NO. 5747-MI-01

## TUBERCULOCIDAL DATA:

**Test Method:** AOAC Confirmative In Vitro Test for Determining Tuberculocidal Activity  
**Test Organism:** *Mycobacterium bovis* BCG (Organon Teknika)  
**Test Condition:** 5% serum, 5 minute contact time, glass slide carrier substrates

Subculture Media	Sample	No. Of Exposed Carriers		No. of Carriers Showing Growth
		Exposed	Carriers	
Modified Proskauer-Beck-Medium	A	10		0
	B	10		0
Middlebrook 7H9 Broth	A	10		0
	B	10		0
Kirchners Medium	A	10		0
	B	10		0

**Conclusion:** Under the conditions of this investigation, Formula 442 was **tuberculocidal** for *Mycobacterium bovis* (BCG) 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

Sample	No. of Exposed Tiles		No. Showing Growth
	Exposed	Carriers	
DDPS	10		0
Control	10		10

**Conclusion:** Under the conditions of this investigation, Formula 442 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.

## FUNGICIDAL DATA:

**Test Method:** AOAC Germicidal Spray Products as Disinfectants  
**Test Conditions:** 5% serum, room temperature, glass slide carrier substrates

Organism	Sample	No. of Carriers		Contact time
		Exposed	Positive	
<i>Trichophyton mentagrophytes</i> ATCC9533)	A	60	0	10 minutes
	B	60	0	
	C	60	0	

**Conclusion:** Under the conditions of this investigation, Formula 442 was fungicidal for *Trichophyton mentagrophytes* According to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a fungicide.

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## VIRUCIDAL DATA:

### Test Methods:

- U.S.E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, Section 91-2(f), and Section 91-30 (d), (e), November, 1982
- 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.
- Modified U.S. EPA Pesticide Assessment Guidelines, Subdivision G: Product Performance, Section 91-2(f), and Section 91-30 (d), (e), November, 1982.

**TEST CONDITIONS:** 5% serum, glass petri dish substrates

### RESULTS:

<u>Test Organism</u>	<u>Sample</u>	<u>Titer Reduction</u>	<u>Contact Time</u>
Bovine Viral Diarrhea Virus (BVDV)	A&B	>5.5 log <sub>10</sub>	10 Minutes
Canine Parvovirus (ATCC VR-2017)	A&B	>3.0 log <sub>10</sub>	10 Minutes
Feline Calicivirus (FCV)	A&B	6.48 log <sub>10</sub>	30 Seconds
Hepatitis A Virus (HAV)	A&B	>3.0 log <sub>10</sub>	10 Minutes
Hepatitis B Virus (HBV) (Duck Hepatitis B Virus- DHBV)	A&B	>3.0 log <sub>10</sub>	10 Minutes
Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-BVDV)	A&B	>5.5 log <sub>10</sub>	10 Minutes
Human Immunodeficiency Virus, HTLV-III <sub>r</sub> , strain of HIV-1 (associated with AIDS)	A&B	>3.5 log <sub>10</sub>	10 Minutes
Human Coronavirus (ATCC VR-740, Strain 229E)	A&B	>3.0 log <sub>10</sub>	2 Minutes
Norwalk Virus (Feline Calicivirus) FCV	A&B	6.48 log <sub>10</sub>	30 Seconds
Poliovirus Type 1, strain Brunhilde (ATCC VR-1000)	A&B	>3.25log <sub>10</sub>	10 Minutes
Rabies Virus (attenuated ERA Strain, CDC)	A&B	3.0 log <sub>10</sub>	30 Seconds

**Conclusion:** Under the conditions of this investigation, Formula 442 was virucidal for Bovine Viral Diarrhea Virus (BVDV), Canine Parvovirus, Feline Calicivirus (FCV), Hepatitis A Virus (HAV), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Human Immunodeficiency Virus (HIV-1), Human Coronavirus, Norwalk Virus, Poliovirus Type 1 and Rabies 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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# Efficacy Data for

## Mopec PathWipes

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### BACTERICIDAL DATA:

**Test Method:** AOAC Germicidal Spray Products as Disinfectants

**Test Conditions:** 5% serum, room temperature, glass slide carrier substrates

#### Results:

Organism	Sample	No. of Carriers		Contact Time
		Exposed	Positive	
Staphylococcus aureus (ATCC 6538)	A	60	0	3 Min.
	B	60	0	
Salmonella choleraesuis (ATCC 10708)	A	60	0	3 Min.
	B	60	0	
Pseudomonas aeruginosa (ATCC 15442)	A	60	0	3 Min.
	B	60	0	
Corynebacterium ammoniagenes (ATCC 6871)	A	10	0	3 Min.
	B	10	0	
Enterococcus faecium (ATCC 6569)	A	10	0	3 Min.
	B	10	0	
Escherichia coli (ATCC 11229)	A	10	0	3 Min.
	B	10	0	
Escherichia coli 0157:H7 (ATCC 43895)	A	10	0	3 Min.
	B	10	0	
Listeria monocytogenes (ATCC 35152)	A	10	0	3 Min.
	B	10	0	
Salmonella typhi (ATCC 6839)	A	10	0	3 Min.
	B	10	0	
Yersinia enterocolitica (ATCC 23715)	A	10	0	3 Min.
	B	10	0	
Methicillin resistant Staphylococcus aureus (MRSA) (ATCC 33593)	A	10	0	3 Min.
	B	10	0	
Vancomycin resistant Enterococcus faecalis (VRE) (ATCC 51575)	A	10	0	3 Min.
	B	10	0	
Vancomycin intermediate resistant Staphylococcus aureus (VISA) (CDC Isolate 99287)	A	10	0	3 Min.
	B	10	0	

Conclusion: Under the conditions of this investigation, Formula 442 was **bactericidal** for *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Corynebacterium ammoniagenes*, *Enterococcus faecium*, *Escherichia coli*, *Escherichia coli 0157:H7*, *Listeria monocytogenes*, *Salmonella typhi*, *Yersinia enterocolitica*, Methicillin resistant *Staphylococcus aureus* (MRSA), Vancomycin resistant *Enterococcus faecalis* (VRE) and Vancomycin intermediate resistant *Staphylococcus aureus* (VISA) according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.