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Efficacy Data

EPA Reg. No 1839--83

ANTIBACTERIAL HEAVY DUTY CLEANER
and ODOR COUNTERACTANT

TUBERCULOCIDAL ACTIVITY

Test Method: AOAC Confirmative In Vitro Test for Determining Tuberculocidal Activity.

Test Organism: *Mycobacterium Bovis BCG* (Organon Teknika)

Test Conditions: OPS 30 RTU - organic soil load, 5 minute contact time - glass slide carrier substrates

Results:

Subculture Media	Sample	No. of Exposed Carriers	No. of Carriers Showing Growth
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 OPS 30 Antibacterial Heavy Duty Cleaner and Odor Counteractant 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 ACTIVITY

Test Method: EPA Hard Surface Mildew Fungistatic Test

Test Organism: *Aspergillus niger* (ATCC 6275)

Test Conditions: glazed ceramic tile substrates

Results:

Sample	No. of Exposed Tiles	No. of Tiles Showing Growth
OPS 30	10	0
CONTROL	10	10

CONCLUSION: Under the conditions of this investigation, OPS 30 Antibacterial Heavy Duty Cleaner and Odor Counteractant 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 ACTIVITY

Test Method: AOAC Germicidal Spray Products as Disinfectants

Test Conditions: OPS 30 RTU - organic soil load - room temperature - glass slide carrier substrates

Results:

Organism	Sample	No. of Carriers		Contact Time
		Exposed	Positive	
<i>Trichophyton mentagrophytes</i> (ATCC 9533)	A	60	0	10 minutes
	B	60	0	
	C	60	0	

CONCLUSION: Under the conditions of this investigation, OPS 30 Antibacterial Heavy Duty Cleaner and Odor Counteractant was **fungicidal** for *Trichophyton mentagrophytes* (Athlete's Food Fungus, a cause of ringworm) 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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BACTERICIDAL ACTIVITY

Test Method: AOAC Germicidal Spray Products as Disinfectants

Test Conditions: OPS 30 RTU - organic soil load - room temperature - glass slide carrier substrates

Results:

Organism	Sample	No. of Carriers		Contact Time
		Exposed	Positive	
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	0	3 minutes
	B	60	0	
<i>Salmonella choleraesuis</i> (ATCC 10708)	A	60	0	3 minutes
	B	60	0	
<i>Pseudomonas aeruginosa</i> PRD- 10 (ATCC 15442)	A	60	0	3 minutes
	B	60	0	
<i>Corynebacterium ammoniagenes</i> (ATCC 6871)	A	10	0	3 minutes
	B	10	0	
<i>Enterococcus faecium</i> (ATCC 6569)	A	10	0	3 minutes
	B	10	0	
<i>Escherichia coli</i> (ATCC 11229)	A	10	0	3 minutes
	B	10	0	
<i>Escherichia coli</i> 0157:H7 (ATCC 43895)	A	10	0	3 minutes
	B	10	0	
<i>Listeria monocytogenes</i> (ATCC 35 152)	A	10	0	3 minutes
	B	10	0	
<i>Salmonella typhi</i> (ATCC 6839)	A	10	0	3 minutes
	B	10	0	
<i>Yersinia enterocolitica</i> (ATCC 23715)	A	10	0	3 minutes
	B	10	0	
<i>Streptococcus pyogenes</i> (Necrotizing Fasciitis-Group A) (VA Medical Center Isolate 04001)	A	10	0	3 minutes
	B	10	0	
Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) (ATCC 33593)	A	10	0	3 minutes
	B	10	0	
Methicillin resistant <i>Staphylococcus epidermidis</i> (MRSE) (ATCC 51625)	A	10	0	3 minutes
	B	10	0	
Vancomycin resistant <i>Enterococcus faecalis</i> (VRE) (ATCC 51575)	A	10	0	3 minutes
	B	10	0	
Vancomycin intermediate resistant <i>Staphylococcus aureus</i> (VISA) (CDC Isolate 99287)	A	10	0	3 minutes
	B	10	0	

CONCLUSION: Under the conditions of this investigation, OPS 30 Antibacterial Heavy Duty Cleaner and Odor Counteractant was **bactericidal** for *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Corynebacterium ammoniagenes*, *Enterococcus faecium*, *Escherichia coli*, *Escherichia coli* 0157:H7, *Streptococcus pyogenes* (VA Medical Center Isolate 04001), *Listeria monocytogenes*, *Salmonella typhi*, *Yersinia enterocolitica*, Methicillin resistant *Staphylococcus aureus* (MRSA), Methicillin resistant *Staphylococcus epidermidis* (MRSE), Vancomycin resistant *Enterococcus faecalis* (VRE), Vancomycin intermediate resistant *Staphylococcus aureus* (VISA), *Streptococcus faecalis* 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 ACTIVITY

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

Test Conditions: OPS 30 RTU - organic soil load - room temperature - glass petri dish substrates

Results:

Test Organism	Sample	Titer Reduction	Contact Time
‡Bovine Viral Diarrhea Virus (BVDV)	A&B	~3.0 log 10	5 minutes
*Canine Parvovirus (ATCC VR-2017)	A&B	~3.0 log 10	10 minutes
•Feline Calicivirus (FCV)	A&B	6.48 log 10	30 seconds
†Hepatitis A Virus (HAV)	A&B	~3.0 log 10	10 minutes
†Hepatitis B Virus (HBV) (Duck Hepatitis B Virus-DHBV)	A&B	~3.3 log 10	5 minutes
‡Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-BVDV)	A&B	~3.0 log 10	5 minutes
*Human Immunodeficiency Virus, HTLV-III _{RF} , strain of HIV- 1 (associated with AIDS)	A&B	~3.5 log 10	1 minute
*Human Coronavirus (ATCC VR-740, strain 229E)	A&B	~3.0 log 10	2 minutes
*Norovirus (Norwalk Virus)	A&B	6.48 log 10	30 seconds
*Poliovirus Type 1, strain Brunhilde (ATCC VR- 1000)	A&B	~3.25 log 10	10 minutes
*Rabies Virus (attenuated ERA strain, CDC)	A&B	~3.0 log 10	30 seconds
*Rhinovirus Type 39 (ATCC VR-340)	A&B	~3.0 log 10	3 minutes
*Rotovirus	A&B	~3.0 log 10	3 minutes
*SARS Associated Coronavirus (ZeptoMetrix)	A&B	4.03 log 10	2 minutes

CONCLUSION: Under the conditions of this investigation, OPS 30 Antibacterial Heavy Duty Cleaner and Odor Counteractant 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*, *Norovirus (Norwalk Virus)*, *Poliovirus Type 1*, *Rabies Virus*, *Rhinovirus Type 39*, *Rotovirus*, *Avian Influenza A* and *SARS Associated Coronavirus* 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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