

EFFICACY DATA FOR Q-BOWL DISINFECTANT (EPA Reg. 1839-83)

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

TEST CONDITIONS: ready-to-use (RTU), organic soil load, room temperature, glass petri dish substrates

Results:

<u>Test Organism</u>	<u>Sample</u>	<u>Titer Reduction</u>	<u>Contact Time</u>
*Avian Influenza A Virus (H3N2) (Avian Reassortant) (ATCC VR-2072)	A&B	≥3.0 log ₁₀	2 minutes
*Avian Influeza Virus, Type A (Turkey/WI/66) (H9N2)	A&B	≥4.83 log ₁₀	2 minutes
*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 ADIS)	A&B	≥3.5 log ₁₀	1 minutes
*Human Coronavirus (ATCC VR-740, strain 229E)	A&B	≥3.01 log ₁₀	2 minutes
*Norovirus (Norwalk Virus)	A&B	≥6.48 log ₁₀	30 seconds
*Poliovirus Type 1, strain Brunhilde (STCC 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
Paramyxovirus (Mumps) (ATCC VR-1438)	A&B	≥3.0 log ₁₀	3 minutes

Conclusion: Under the conditions of this investigation, Detergent Disinfectant Pump Spray was **virucidal** for Avian Influenza A Virus (H3N2), Avian Influenza Virus Type A (H9N2), Bovine Viral Diarrhea Virus (BVDV), Cranine 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, Rhinovirus Type 39, Rotovirus, 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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TUBERCULOCIDAL DATA:

Test Method: AOAC Confirmative In Vitro Test for Determining Tuberculocidal Acitivity

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

Test Conditions: ready-to-use (RTU), organic soil load, 5 minutes contact time, glass slide carrier substrates

Results:

<u>Subculture Media</u>	<u>Sample</u>	<u>No. of Exposed Carriers</u>	<u>No. of Carriers Showing Growth</u>
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, Q-Bowl was **tuberculocidal** for *Mycobacterium bovis* (BCB) 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	0

Conclusion: Under the conditions of this investigation, Q-Bowl was **fungistatic** for *Aspergillus niger* according to criteria established by the U.S E.P.A for registration and labeling of a disinfectant product as a fungistat.

FUNGICIDAL DATA:

Test Method: AOAC Germicidal Spray Products as Disinfectants

Test Conditions: ready-to-use (RTU), organic soil load, room temperature, glass slide carrier sunstrates.

Results:

<u>Organism</u>	<u>Sample</u>	<u>Exposed</u>	<u>Positive</u>	<u>Contact Time</u>
<i>Trichophyton Mentagrophytes</i> (ATCC 9533)	A	60	0	10 minutes
	B	60	0	
	C	60	0	

Conclusion: Under the conditions of this investigation, Q-Bowl was **fungicidal** for *Trichophyton mentagrophytes* according to criteria established by the U.S E.P.A for registration and labeling of disinfectant product as a fungicide.

BACTERICIDAL DATA:

Test Method: AOAC Germicidal Spray Product as Disinfectant

Test Conditions: ready-to-use (RTU), organic soil load, room temperature, glass slide carrier substrates.

Results:

<u>Organism</u>	<u>Sample</u>	<u>No. of Carriers</u>		<u>Contact Time</u>
		<u>Exposed</u>	<u>Positive</u>	
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	0	3 minutes
	B	60	1	
<i>Salmonella choleraesuis</i>	A	60	0	3 minutes
	B	60	0	
<i>Pseudomonas aeruginosa</i>	A	60	0	3 minutes
	B	60	0	
<i>Clostridium difficile vegetative</i> (ATCC 9689)	A	10	0	1 minute
	B	10	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 35152)	A	10	0	3 minutes
	B	10	0	
<i>Salmonella typhi</i> (ATCC 6539)	A	10	0	3 minutes
	B	10	0	
Streptococcus pyogenes (Necrotizing Fasciitis-Group A) (V.A Medical Center Isolate 04001)	A	10	0	3 minutes
	B	10	0	
<i>Yersinia enterocolitica</i> (ATCC 23715)	A	10	0	3 minutes
	B	10	0	
Methicillin resistant <i>Staphylococcus aureus</i>	A	10	0	3 minutes
	B	10	0	
(MRSA) (ATCC 33593)	A	10	0	3 minutes
	B	10	0	
Methicillin resistant <i>Staphylococcus aureus</i>	A	10	0	3 minutes
	B	10	0	
(MRSA) (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, Q-Bowl was fungicidal for the items listed above.