

Efficacy Bulletin
Peroxy 4D™

EPA Reg. No. 1839-224-5741

DISINFECTION DATA:**Test Method:** AOAC Use Dilution**Test Conditions:** 2 oz/gal dilution in 200 ppm (as CaCO₃) hard water, 5% organic soil load, 10 minute contact time, 20±1°C exposure temperature, stainless steel carrier substrates**Results:**

Test Organism	Sample	Exposed	No. of Carriers
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	0
	B	60	0
	C	60	0
<i>Salmonella enterica</i> (ATCC 10708)	A	60	0
	B	60	0
	C	60	0
<i>Pseudomonas aeruginosa</i> (ATCC 15442)	A	60	0
	B	60	0
	C	60	1
Community Associated Methicillin resistant <i>Staphylococcus aureus</i> (CA-MRSA) Genotype USA 300	A	10	0
	B	10	0
Community Associated Methicillin resistant <i>Staphylococcus aureus</i> (CA-MRSA) Genotype USA 400	A	10	0
	B	10	0
<i>Escherichia coli</i> (ATCC 11229)	A	10	0
	B	10	0
<i>Escherichia coli</i> O157:H7 (ATCC 43895)	A	10	0
	B	10	0
Methicillin resistant <i>Staphylococcus aureus</i> (MRSA) (ATCC 33593)	A	10	0
	B	10	0

Conclusion:

Under the conditions of these investigations, Peroxy 4D demonstrated disinfectant activity against *Staphylococcus aureus*, *Salmonella enterica*, *Pseudomonas aeruginosa*, Community Associated Methicillin resistant *Staphylococcus aureus* (CA-MRSA) Genotype USA 300, Community Associated Methicillin resistant *Staphylococcus aureus* (CA-MRSA) Genotype USA 400, *Escherichia coli* (ATCC 11229), *Escherichia coli* O157:H7 and Methicillin resistant *Staphylococcus aureus* (MRSA) according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

VIRUCIDAL ACTIVITY

Test Method: U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, 1982, Section 91-30.

Test Conditions: 2 oz/gal dilution in 200 ppm (as CaCO₃) hard water, 5% organic soil load, room temperature, glass slide substrates

Results:

Virus	Contact Time	Sample	Titer Reduction
Human Immunodeficiency Virus, HTLV-III _B , strain of HIV-1 (associated with AIDS)	1 minute	A B	$\geq 3.5 \log_{10}$ $\geq 3.5 \log_{10}$
Influenza A Virus (ATCC VR-544)	10 minutes	A B	$> 5.75 \log_{10}$ $> 5.75 \log_{10}$
Pandemic 2009 H1N1 Influenza A Virus	(Refer to NOTE below.)		

Conclusion:

Under the conditions of this investigation, Peroxy 4D demonstrated virucidal activity against Human Immunodeficiency Virus (HIV), Influenza Type A and Pandemic 2009 H1N1 Influenza A Virus, according to criteria established by the U.S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

NOTE: Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.