

## Efficacy Bulletin

# PSQ<sup>®</sup> II

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EPA Reg. No. 10324-93-5741

## Disinfection

This product is bactericidal according to the EPA Test Guideline 810.2200: AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum. All tests are completed under Good Laboratory Practice (GLP) conditions.

Organism	Sample	Carriers Tested	Carriers Showing Growth	Contact Time	Dilution
<i>Pseudomonas aeruginosa</i>	A	60	0	10 minutes	2 oz./gal
	B	60	1		
	C	60	1		
<i>Staphylococcus aureus</i>	A	60	1	10 minutes	2 oz./gal
	B	60	1		
	C	60	1		
<i>Salmonella enterica</i>	A	60	0	10 minutes	2 oz./gal
	B	60	0		
	C	60	0		
<i>Acinetobacter baumannii</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Bordetella bronchiseptica</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Campylobacter jejuni</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Corynebacterium ammoniagenes</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Enterobacter aerogenes</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Enterococcus faecalis</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Escherichia coli</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Escherichia coli</i> O157:H7	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Escherichia coli</i> O111:H8	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Klebsiella pneumoniae</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Listeria monocytogenes</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Salmonella schottmuelleri</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Salmonella typhi</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Shigella dysenteriae</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		

## Disinfection (continued)

Organism	Sample	Carriers Tested	Carriers Showing Growth	Contact Time	Dilution
<i>Staphylococcus aureus</i> Methicillin Resistant (MRSA)	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (CA-MRSA)	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Staphylococcus aureus</i> Vancomycin Intermediate Resistant (VISA)	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Streptococcus salivarius</i>	A	10	0	10 minutes	2 oz./gal
	B	10	0		
<i>Vancomycin Intermediate Resistant Enterococcus faecium</i> (VRE)	A	10	0	10 minutes	2 oz./gal
	B	10	0		

## Virucidal

This product is virucidal according to the EPA Test Guideline 810.2200: Virucidal Hard Surface Efficacy Test, in the presence of 5% organic serum. All tests are completed under Good Laboratory Practice (GLP) conditions.

Organism	Sample	Log Reduction	Contact Time	Dilution
Avian Influenza A (H5N1) virus (Avian Reassortant)	A	$\geq 4.0 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 4.0 \text{ Log}_{10}$		
Avian Influenza A (H9N2)	A	$\geq 5.7 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 5.7 \text{ Log}_{10}$		
Hepatitis B Virus	A	$\geq 5.06 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 4.79 \text{ Log}_{10}$		
	Confirmatory B	$\geq 4.79 \text{ Log}_{10}$		
Hepatitis C Virus	A	$\geq 5.56 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 5.79 \text{ Log}_{10}$		
	Confirmatory B	$\geq 5.79 \text{ Log}_{10}$		
Herpes Simplex Type 1	A	$\geq 5.0 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 5.0 \text{ Log}_{10}$		
Human Coronavirus	A	$\geq 3.0 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 3.0 \text{ Log}_{10}$		
Human Immunodeficiency Virus Type 1 (HIV-1)	A	$\geq 3.5 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 3.5 \text{ Log}_{10}$		
Influenza A (H1N1) Virus	A	$\geq 6.0 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 6.0 \text{ Log}_{10}$		
Influenza A2/Japan/305	A	$\geq 5.7 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 5.7 \text{ Log}_{10}$		

## Virucidal (continued)

Organism	Sample	Log Reduction	Contact Time	Dilution
Norwalk/Norovirus	A	$\geq 4.25 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 4.25 \text{ Log}_{10}$		
	Confirmatory A	$\geq 5.0 \text{ Log}_{10}$		
Vaccinia Virus Hoffmann La Roche	A	$\geq 4.3 \text{ Log}_{10}$	10 minutes	2 oz./gal
	B	$\geq 4.3 \text{ Log}_{10}$		

## Fungicidal

This product is fungicidal according to the EPA Test Guideline 810.2200: AOAC Use-Dilution method modified for fungicidal activity on hard inanimate surfaces modified in the presence of 5% organic serum. All tests are completed under Good Laboratory Practice (GLP) conditions.

Organism	Sample	Carriers Showing Growth	Contact Time	Dilution
<i>Trichophyton mentagrophytes</i>	A	0	10 minutes	2 oz./gal
	B	0		

## Mildewcidal

This product is mildewcidal according to the EPA Hard Surface Mildew Fungistatic Test. All tests are completed under Good Laboratory Practice (GLP) conditions.

Organism	Sample	Exposed Tiles	Tiles Showing Growth After 7 Days	Dilution
<i>Aspergillus niger</i>	A	10	0	2 oz./gal
	B	10	0	