

Efficacy Bulletin

BNC-15[®]

EPA Reg. No. 6836-348-5741

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> (ATCC 15442)	A	60	0	3 minutes	1 oz./gal
	B	60	0		
	C	60	0		
<i>Staphylococcus aureus</i> (ATCC 6538)	A	60	1	3 minutes	1 oz./gal
	B	60	1		
	C	60	1		
<i>Salmonella enterica</i> (ATCC 10708)	A	60	0	3 minutes	1 oz./gal
	B	60	0		
	C	60	0		
<i>Acinetobacter baumannii</i> (ATCC 19606)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Bordetella bronchiseptica</i> (ATCC 10580)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Bordetella pertussis</i> (ATCC 12743)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Campylobacter jejuni</i> (ATCC 29428)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Klebsiella aerogenes</i> (ATCC 13048)	A	10	0	3 minutes	2 oz./gal
	B	10	0		
<i>Enterococcus faecalis</i> (ATCC 11700)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Enterococcus faecalis</i> Vancomycin Resistant (VRE) (ATCC 51299)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Escherichia coli</i> (ATCC 11229)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
ESBL <i>Escherichia coli</i> (CU-209)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Escherichia coli</i> O157:H7 (ATCC 35150)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Klebsiella pneumoniae</i> (ATCC 4352)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Klebsiella pneumoniae</i> Carbapenem-resistant (ATCC BAA-1705)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Listeria monocytogenes</i> (ATCC 19117)	A	10	0	3 minutes	1 oz./gal
	B	10	0		

Disinfection (continued)

Organism	Sample	Carriers Tested	Carriers Showing Growth	Contact Time	Dilution
<i>Proteus vulgaris</i> (ATCC 9920)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Serratia marcescens</i> (ATCC 274)	A	10	0	3 minutes	2 oz./gal
	B	10	0		
<i>Shigella flexneri</i> Serotype 1B (ATCC 9380)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Shigella dysenteriae</i> (ATCC 11835)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Shigella sonnei</i> (ATCC 25931)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Staphylococcus aureus</i> Methicillin Resistant (MRSA) (ATCC 33592)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (CA-MRSA) (NRS123)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (CA-MRSA) (NRS384)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Staphylococcus aureus</i> Vancomycin Intermediate Resistant (VISA) (CDC# HIP-5836)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Streptococcus pyogenes</i> (ATCC 12384)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Vibrio cholera</i> (ATCC 14035)	A	10	0	3 minutes	1 oz./gal
	B	10	0		
<i>Yersinia enterocolitica</i> (ATCC 23175)	A	10	0	3 minutes	1 oz./gal
	B	10	0		

Virucidal Against

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	Log Reduction	Contact Time	Dilution
Canine Distemper Virus (ATCCC VR-128)	$\geq 5.75 \text{ Log}_{10}$	3 minutes	1 oz./gal
Feline Calicivirus (ATCC VR-782, F-9 strain)	$\geq 4.41 \text{ Log}_{10}$	5 minutes	2 oz./gal
Hepatitis B Virus (HBV)	$\geq 5.13 \text{ Log}_{10}$	3 minutes	1 oz./gal
Hepatitis C Virus (HCV)	$\geq 4.68 \text{ Log}_{10}$	3 minutes	1 oz./gal

Virucidal Against (continued)

Organism	Log Reduction	Contact Time	Dilution
Herpes Simplex Virus Type 1 (ATCC VR-733, Strain F(1))	≥4.5 Log ₁₀	3 minutes	1 oz./gal
Herpes Simplex Virus Type 2 (ATCC VR-734, Strain G)	≥4.0 Log ₁₀	3 minutes	1 oz./gal
HIV-1 (AIDS Virus) (Strain HTLV-III _{RF})	≥4.5 Log ₁₀	1 minute	1 oz./gal
Human Coronavirus (ATCC VR-740, Strain 229E)	≥4.0 Log ₁₀	1 minute	1 oz./gal
Influenza Type A (ATCC VR-544)	≥5.75 Log ₁₀	1 minute	1 oz./gal
Newcastle Disease Virus (ATCC VR-108)	≥4.75 Log ₁₀	3 minutes	1 oz./gal
Norwalk Virus - Norovirus (ATCC VR-782, F-9 strain)	≥4.41 Log ₁₀	5 minutes	2 oz./gal
Respiratory Syncytial Virus (ATCC VR-26, Strain Long)	≥3.25 Log ₁₀	3 minutes	1 oz./gal
Rotavirus (Strain WA)	≥6.0 Log ₁₀	3 minutes	1 oz./gal
SARS-CoV-2 (Strain US-WA1/2020)	≥ 3.0 Log ₁₀	1 minute	1 oz./gal
Vaccinia Virus (ATCC VR-119, Strain WR)	≥7.0 Log ₁₀	3 minutes	1 oz./gal

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 Tested	Carriers Showing Growth	Contact Time	Dilution
<i>Trichophyton interdigitale</i> (ATCC 9533)	A	10	0	3 minutes	1 oz./gal
	B	10	0		

Non-Food Contact Sanitization

This product sanitizes hard non-porous non-food contact surface according to the EPA Test Guideline 810.2300, Sanitizers for use on hard inanimate surfaces. All tests are completed under Good Laboratory Practice (GLP) conditions.

Organism	Log Reduction	Contact Time	Dilution
<i>Klebsiella aerogenes</i> (ATCC 13048)	≥3.0 Log ₁₀	15 seconds	1 oz./gal
<i>Klebsiella pneumoniae</i> (ATCC 4352)	≥3.0 Log ₁₀	15 seconds	1 oz./gal
<i>Listeria monocytogenes</i> (ATCC 19117)	≥3.0 Log ₁₀	15 seconds	1 oz./gal
<i>Staphylococcus aureus</i> (ATCC 6538)	≥3.0 Log ₁₀	15 seconds	1 oz./gal
<i>Staphylococcus aureus</i> (MRSA) (ATCC 33592)	≥3.0 Log ₁₀	15 seconds	1 oz./gal