

**Efficacy Bulletin**

# **X-Effect<sup>®</sup>**

---

EPA Reg. 5741-20

## 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 and 200 ppm hard water. All tests are completed under Good Laboratory Practice (GLP) conditions.

Organism	Sample	Carriers Tested	Carriers Showing Growth	Contact Time	Dilution
<i>Staphylococcus aureus</i>	A	60	2	10 minutes	2 oz/gal
	B	60	1		
	C	60	2		
<i>Salmonella enterica</i>	A	60	1	10 minutes	2 oz/gal
	B	60	0		
	C	60	1		
<i>Staphylococcus aureus Methicillin Resistant (MRSA)</i>	A	10	0	10 minutes	3 oz/gal
	B	10	0		
<i>Vancomycin Intermediate Resistant Enterococcus faecalis (VRE)</i>	A	10	0	10 minutes	3 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 (H3N2) virus	A	$\geq 3.25 \text{ Log}_{10}$	10 minutes	2 oz/gal
	B	$\geq 3.50 \text{ Log}_{10}$		
Hepatitis B Virus	A	$\geq 3.25 \text{ Log}_{10}$	10 minutes	2 oz/gal
	B	$\geq 3.25 \text{ Log}_{10}$		
Hepatitis C Virus	A	$\geq 3.38 \text{ Log}_{10}$	10 minutes	2 oz/gal
	B	$\geq 3.38 \text{ Log}_{10}$		
Herpes Simplex Type 2	A	$\geq 3.13 \text{ Log}_{10}$	10 minutes	2 oz/gal
	B	$\geq 3.25 \text{ Log}_{10}$		
Human Immunodeficiency Virus Type 1 (HIV-1)	A	$\geq 3.63 \text{ Log}_{10}$	10 minutes	2 oz/gal
	B	$\geq 3.13 \text{ Log}_{10}$		
SARS-CoV-2 [USA-WA1/2020]	A	$\geq 4.00 \text{ Log}_{10}$	10 minutes	2 oz/gal
	B	$\geq 4.00 \text{ Log}_{10}$		
	C	$\geq 4.00 \text{ Log}_{10}$		

## 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	Sample	carriers tested	Percent Reduction	Contact Time	Dilution
<i>Enterobacter aerogenes</i>	A	5	>99.9%	30 seconds	2 oz/gal
	B	5	>99.9%		
	C	5	>99.9%		
<i>Staphylococcus aureus</i>	A	5	>99.9%	30 seconds	2 oz/gal
	B	5	>99.9%		
	C	5	>99.9%		