



Efficacy Data for

**SANQUAT Disinfectant
Sanitizer Deodorizer
(#0125)**

Effective in hard water up to 400 ppm hardness (Calculated as CaCO₃) in the presence of 5% serum contamination.

Use	Dilutions	Quat Active	Hard Water
Hospital disinfectant	1.5 oz per gal of water	1150 ppm	400 ppm
Virucidal	1.5 oz per gal of water	1150 ppm	400 ppm
Sanitization (non-food contact)	0.25 oz per gal of water	500 ppm	200 ppm

Efficacy Hospital Disinfection (at 1.5 ounces per gallon)

SANQUAT Disinfectant Sanitizer Deodorizer is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum and 400 ppm hard water at 1.5 ounces of this product per gallon of water (1150 ppm active) Treated surfaces must remain wet for 10 minutes
 (Testing is performed per the AOAC UDT/GST method (DIS/TSS-1). Sixty carriers are required on 3 separate lots, one of which must be > 60 days old against Pseudomonas aeruginosa, Salmonella enterica and Staphylococcus aureus. Killing of 59 out of 60 carriers is required (total carriers = 540).)

Organism	Carrier Population	Sample	# Carriers	# Positive
Pseudomonas aeruginosa ATCC #15442	3.9 X 10 ⁴ CFU/Carrier	A (60 Days Old)	60	0 / 60
		B	60	0 / 60
		C	60	0 / 60
Salmonella enterica ATCC #10708	1.03 X 10 ⁶ CFU/Carrier	A (60 Days Old)	60	1 / 60
		B	60	1 / 60
		C	60	0 / 60
Staphylococcus aureus ATCC #6538	7.0 X 10 ⁴ CFU/Carrier	A (60 Days Old)	60	0 / 60
		B	60	0 / 60
		C	60	0 / 60



Virucidal against (at 1.5 ounces per gallon)

This product was evaluated in the presence of 5% serum and 400 ppm hard water with a 10 minute contact time and found to be effective against the following viruses on hard nonporous environmental surfaces.

(Testing is performed per EPA Guidance (DIS/TSS-7). Two separate lots are tested. Inactivation of virus must be demonstrated at all dilutions when no cytotoxicity is observed or at all dilutions above the cytotoxic level when it is observed. The data must demonstrate a 3-log reduction in viral titer for both lots.) (3 lots and 4-Log reduction for Canada).

Organism	Dried Virus Control	Sample	Result	Log Reduction
Avian Influenza A (H5N1) virus	6.75 Log ₁₀	A	≤0.5 Log ₁₀	≥6.25 Log ₁₀
		B	≤0.5 Log ₁₀	≥6.25 Log ₁₀
Human Coronavirus ATCC VR-740	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.25 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.25 Log ₁₀
		C	≤0.5 Log ₁₀	≥4.25 Log ₁₀
Human Immunodeficiency Virus type 1 (HIV 1) HTLV-IIIB	5.75 Log ₁₀	A	≤0.5 Log ₁₀	≥4.25 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.25 Log ₁₀
		C	≤0.5 Log ₁₀	≥4.25 Log ₁₀

Non-Food Contact Surface Sanitizer

Add 1 ounce of the product to 4 gallon of water to sanitize hard non-porous non-food contact surfaces. Treated surfaces must remain wet for 1 minute. Then wipe with sponge, mop or cloth or allow to air dry.

Organism	Carrier Population	Sample	# Carriers	# Positive
Aeromonas hydrophila	5.1 X 10 ⁶ CFU/Carrier	A	10	0 / 10
		B	10	0 / 60
Cronobacter sakazakii	5.7 X 10 ⁵ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Enterococcus faecalis Vancomycin Resistant (VRE) ATCC 51299	1.3 X 10 ⁷ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Escherichia coli ATCC 11229	1.3 X 10 ⁷ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Escherichia coli O111:H8 ATCC BAA-184	4.3 X 10 ⁶ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Escherichia coli 0157:H7	3.1 X 10 ⁵ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Klebsiella pneumoniae ATCC 13883	1.2 X 10 ⁶ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Listeria monocytogenes ATCC 19117	7.7 X 10 ⁶ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60



Organism	Carrier Population	Sample	# Carriers	# Positive
Salmonella	9.2 X 10 ⁴ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Salmonella enteritidis	1.3 X 10 ⁶ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Salmonella typhi ATCC 6539	8.3 X 10 ⁶ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Shigella dysenteriae	2.6 X 10 ⁴ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Shigella flexneri ATCC 9380	1.99 X 10 ⁶ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Staphylococcus aureus ATCC 14154	9.2 X 10 ⁵ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Staphylococcus aureus Methicillin Resistant (MRSA) ATCC 33592	5.4 X 10 ⁶ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Staphylococcus aureus Community Associated Methicillin Resistant (CA- MRSA)	6.3 X 10 ⁶ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Staphylococcus aureus Community Associated Methicillin Resistant (CA-MRSA) (NARSA NRS384) Genotype USA300)	1.60 X 10 ⁶ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Streptococcus pyogenes ATCC 19615	4.7 X 10 ⁴ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60
Yersinia enterocolitica ATCC 23715	1.2 X 10 ⁷ CFU/Carrier	A	10	0 / 60
		B	10	0 / 60