



KenClean Plus

Athletic Surface Disinfectant Cleaner

Efficacy Data

EPA REG.
#10324-154-67297

Efficacy

Hospital Disinfection (at 2 ounces per gallon)

KenClean Plus Athletic Surface Disinfectant Cleaner 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 2 ounces of this product per gallon of water (660 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
<i>Pseudomonas aeruginosa</i> ATCC #15442	3.9 X 10 ⁴ CFU/Carrier	A	60	1/60
		(60 Days Old)		
		B	60	1/60
<i>Salmonella enterica</i> ATCC #10708	1.03 X 10 ⁶ CFU/Carrier	C	60	1/60
		(60 Days Old)		
		A	60	1/60
<i>Staphylococcus aureus</i> ATCC #6538	7.0 X 10 ⁴ CFU/Carrier	B	60	0/60
		(60 Days Old)		
		C	60	0/60
		A	60	0/60
		(60 Days Old)		
		B	60	0/60
		C	60	0/60
		(60 Days Old)		
		A	60	0/60

Supplemental Organisms

(Testing is performed per the AOAC UDT/GST method. Ten carriers are required on 2 separate lots against each supplemental organism. Killing of 10 out of 10 carriers is required (total carriers = 20).)

ORGANISM	CARRIER POPULATION	SAMPLE	# CARRIERS	# POSITIVE
<i>Enterobacter cloacae</i> ATCC 13047	3.3 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterococcus faecalis</i> ATCC 19433	6.2 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Enterococcus faecalis</i> Vancomycin Resistant (VRE) ATCC 51299	1.3 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> ATCC 11229	1.3 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Escherichia coli</i> (carbapenem resistant) CDC 87371	1.34 X 10 ⁶ CFU/Carrier	A	10	0/10
	7.2 X 10 ⁵ CFU/Carrier	B	10	0/10
<i>Escherichia coli</i> O111 :H8 ATCC 13182	4.3 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Klebsiella pneumoniae</i> ATCC 13883	1.2 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Listeria monocytogenes</i> ATCC 19117	7.7 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Proteus vulgaris</i> ATCC 13315	1.9 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10



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ORGANISM	CARRIER POPULATION	SAMPLE	# CARRIERS	# POSITIVE
<i>Pseudomonas aeruginosa</i> Tetracycline Resistant ATCC 27853	3.5 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Pseudomonas cepacia</i> ATCC 25416	1.63 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Salmonella enterica</i> ATCC 23564	9.2 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Shigella flexneri</i> ATCC 9380	1.99 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> ATCC 25923	6.6 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Methicillin Resistant (MRSA) ATCC 33592	5.4 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Community Associated Methicillin Resistant (CA-MRSA)	6.3 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus aureus</i> Vancomycin Intermediate Resistant (VISA) ATCC 5836	3.2 X 10 ⁶ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Staphylococcus epidermidis</i> Antibiotic resistant ATCC 51625	8.6 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Streptococcus pneumoniae</i> Penicillin Resistant ATCC 51915	9.6 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Streptococcus pyogenes</i> ATCC 19615	4.7 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
<i>Yersinia enterocolitica</i> ATCC 23715	1.2 X 10 ⁷ CFU/Carrier	A	10	0/10
		B	10	0/10

Virucidal against (at 2 ounces per gallon)

KenClean Plus Athletic Surface Disinfectant Cleaner 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 (H3N2) virus (Avian Reassortant) (ATTC VR-2072)	4.75 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
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
SARS Associated Coronavirus	6.5 Log ₁₀	A	≤3.5 Log ₁₀	≥3.0 Log ₁₀
		B	≤3.5 Log ₁₀	≥3.0 Log ₁₀



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ORGANISM	DRIED VIRUS CONTROL	SAMPLE	RESULT	LOG REDUCTION
Hepatitis B Virus	5.06 Log ₁₀	A	0.27 Log ₁₀	4.79 Log ₁₀
	5.20 Log ₁₀	B	0.41 Log ₁₀	4.79 Log ₁₀
	5.06 Log ₁₀	Confirmatory B	0.27 Log ₁₀	4.79 Log ₁₀
Hepatitis C Virus	6.21 Log ₁₀	A	0.24 Log ₁₀	5.97 Log ₁₀
	6.21 Log ₁₀	B	0.42 Log ₁₀	5.79 Log ₁₀
	6.06 Log ₁₀	Confirmatory B	0.13 Log ₁₀	5.93 Log ₁₀
Herpes Simplex Virus Type 1 ATCC VR-773	5.5 Log ₁₀	A	≤0.5 Log ₁₀	≥5.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.0 Log ₁₀
	6.0 Log ₁₀	C	≤0.5 Log ₁₀	≥5.5 Log ₁₀
Herpes Simplex Virus Type 2 ATCC VR-734	6.0 Log ₁₀	A	≤0.5 Log ₁₀	≥5.5 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.5 Log ₁₀
	5.75 Log ₁₀	C	≤0.5 Log ₁₀	≥4.5.5 Log ₁₀
Human Coronavirus ATCC VR-740	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	4.5 Log ₁₀	C	≤0.5 Log ₁₀	≥4.0 Log ₁₀
Human Immunodeficiency Virus type 1 (HIV 1) HTLV-III _B	5.75 Log ₁₀	A	≤1.5 Log ₁₀	≥4.25 Log ₁₀
		B	≤1.5 Log ₁₀	≥4.25 Log ₁₀
		C	≤1.5 Log ₁₀	≥4.25 Log ₁₀
Influenza A (H3N2} Virus (Hong Kong Strain) (VR-544)	6.5 Log ₁₀	A	≤0.5 Log ₁₀	≥6.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥6.0 Log ₁₀
	6.0 Log ₁₀	C	≤0.5 Log ₁₀	≥5.5 Log ₁₀
Influenza A (H1N1) virus ATCC VR-1469	5.5 Log ₁₀	A	≤0.5 Log ₁₀	≥5.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥5.0 Log ₁₀
Respiratory syncytial virus ATCC VR-26	4.5 Log ₁₀	A	≤0.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤0.5 Log ₁₀	≥4.0 Log ₁₀
	5.5 Log ₁₀	C	≤0.5 Log ₁₀	≥4.5 Log ₁₀

Fungicidal against (at 2 ounces per gallon)

KenClean Plus Athletic Surface Disinfectant Cleaner 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 fungi on hard nonporous environmental surfaces. (Testing is performed per the AOAC fungicidal method (DIS/TSS-6). Two separate lots are tested against Trichophyton mentagrophytes in a suspension test. Killing of all fungal spores in 10 minutes is required.)

ORGANISM	CARRIER POPULATION	SAMPLE	# CARRIERS	# POSITIVE
Candida albicans ATCC #10231	1.57 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10



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ORGANISM	CARRIER POPULATION	SAMPLE	# CARRIERS	# POSITIVE
Trichophyton mentagrophytes ATCC #9533	1.10 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10

Mold and Mildew Control (at 2 ounces per gallon)

Use **KenClean Plus Athletic Surface Disinfectant Cleaner** to control the growth of mold and mildew and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappears.

ORGANISM	TILE NUMBER	UNTREATED AFTER 7 DAYS	SAMPLE A AFTER 7 DAYS	SAMPLE B AFTER 7 DAYS
<i>Aspergillus niger</i> ATCC #16404	1	Growth 95%	No Growth 0%	No Growth 0%
	2	Growth 90%	No Growth 0%	No Growth 0%
	3	Growth 90%	No Growth 0%	No Growth 0%