

QUAT RINSE

disinfectant • sanitizer • deodorizer • mildewstat • virucide

Concentrated Quaternary Disinfectant and Sanitizer

Quat Rinse is a phosphate-free disinfectant/sanitizer that can be used in a variety of applications.

Disinfectant
Sanitizer
Deodorizer
Mildewstat
Virucide

Advantages

Quat Rinse is a disinfectant and sanitizer for use in food-processing plants, dairies, restaurants, bars and institutions where disinfection, sanitization and deodorization are of prime importance. This product is formulated to disinfect precleaned, inanimate hard surfaces such as walls, floors, sink tops, tables, chairs, telephones and bed frames. It also deodorizes those areas which are generally hard to keep fresh-smelling, such as garbage storage areas, empty garbage bins and cans and any other areas which are prone to odors caused by microorganisms.

Claims

In addition, Quat Rinse can be used to sanitize previously cleaned and rinsed non-porous food contact surfaces such as tanks, chopping blocks, counter tops, drinking glasses and eating utensils.



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FS-5



Data

Food Contact Sanitizer (No Rinse) Data

Test Method:

At 0.25 ounces per gallon (1 ounce per 4 gallons) (200 ppm) Quat Rinse is an effective food-contact surface sanitizer eliminating 99.999% of the of the following bacteria in 60 seconds in 500 ppm hard water (calculated as CaCO3) according to the AOAC Germicidal and Detergent Sanitizing Action of Disinfectants test.

Test Organisms:

- Campylobacter jejuni
- Escherichia coli
- Escherichia coli O157:H7
- Listeria monocytogenes
- Shigella dysenteriae
- Staphylococcus aureus
- Yersinia enterocolitica

Results:

Test Organisms	Carrier Population	2331 Sample	30 Second Kill	60 Second Kill
Campylobacter jejuni	7.27 Log ₁₀	A	>7.27 Log ₁₀	>7.27 Log ₁₀
		B	>7.27 Log ₁₀	>7.27 Log ₁₀
Escherichia coli	7.47 Log ₁₀	A	7.47 Log ₁₀	7.47 Log ₁₀
		B	7.47 Log ₁₀	7.47 Log ₁₀
		C	7.47 Log ₁₀	7.47 Log ₁₀
Escherichia coli O157:H7	8.04 Log ₁₀	A	5.15 Log ₁₀	>5.78 Log ₁₀
		B	5.07 Log ₁₀	>5.65 Log ₁₀
Listeria monocytogenes	8.22 Log ₁₀	A	6.42 Log ₁₀	>7.30 Log ₁₀
		B	7.32 Log ₁₀	7.43 Log ₁₀
Shigella dysenteriae	7.87 Log ₁₀	A	7.87 Log ₁₀	>7.87 Log ₁₀
		B	7.87 Log ₁₀	>7.87 Log ₁₀
Staphylococcus aureus	7.0 Log ₁₀	A	7.0 Log ₁₀	7.0 Log ₁₀
		B	7.0 Log ₁₀	7.0 Log ₁₀
		C	7.0 Log ₁₀	7.0 Log ₁₀
Yersinia enterocolitica	7.88 Log ₁₀	A	>7.88 Log ₁₀	>7.88 Log ₁₀
		B	>7.88 Log ₁₀	>7.88 Log ₁₀

Data

General Disinfection Data

Test Method:

Quat Rinse is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum at 3 ounces of this product to 5 gallons of water (469 ppm active) Treated surfaces must remain wet for 10 minutes.

Test Organisms:

- Campylobacter jejuni
- Escherichia coli
- Listeria monocytogenes
- Proteus mirabilis
- Salmonella choleraesuis
- Staphylococcus aureus (Methicillin Resistant)
- Staphylococcus aureus
- Yersinia enterocolitica

Results:

Test Organisms	Carrier Population	2331 Sample	# Carriers	# Positive
Campylobacter jejuni	5.0 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
Escherichia coli	1.4 X 10 ⁵ CFU/Carrier	A	20	0/20
		B	20	0/20
Listeria monocytogenes	2.4 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
Proteus mirabilis Clinical Isolate	1.1 X 10 ⁵ CFU/Carrier	A	20	0/20
		B	20	0/20
Salmonella choleraesuis	5.6 X 10 ⁴ CFU/Carrier	A (60 days old)	60	0/60
	5.4 X 10 ⁴ CFU/Carrier	B	60	1/60
	4.0 X 10 ⁴ CFU/Carrier	C	60	1/60
Staphylococcus aureus (Methicillin Resistant)	4.2 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
Staphylococcus aureus	1.6 X 10 ⁶ CFU/Carrier	A (60 days old)	60	1/60
	1.4 X 10 ⁶ CFU/Carrier	B	60	0/60
	1.4 X 10 ⁶ CFU/Carrier	C	60	1/60
Yersinia enterocolitica	4.6 X 10 ⁴ CFU/Carrier	A	20	0/20
		B	20	0/20

Data

Hospital Disinfection Data

Test Method:

Quat Rinse is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum at 4 ounces of this product to 5 gallons of water (625 ppm active) Treated surfaces must remain wet for 10 minutes.

Test Organisms:

Burkholderia cepacia
Campylobacter jejuni
Corynebacterium ammoniagenes
Escherichia coli 0157:H7
Enterococcus faecium Vancomycin Resistant
Klebsiella pneumoniae
Listeria monocytogenes
Proteus mirabilis
Pseudomonas aeruginosa
Salmonella choleraesuis
Salmonella typhi
Shigella sonnei
Staphylococcus aureus (Methicillin Resistant)
Staphylococcus aureus
Yersinia enterocolitica

Results:

Test Organisms	Carrier Population	2319 Sample	# Carriers	# Positive
Burkholderia cepacia	3.5 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
Campylobacter jejuni	5.0 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
Corynebacterium ammoniagenes	6.0 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
Escherichia coli	1.4 X 10 ⁵ CFU/Carrier	A	20	0/20
		B	20	0/20
Enterococcus faecium Vancomycin Resistant (VRE)	1.0 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
Klebsiella pneumoniae	1.8 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
Listeria monocytogenes	2.4 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10

Results:

Test Organisms	Carrier Population	2319 Sample	# Carriers	# Positive
Proteus mirabilis Clinical Isolate	1.1 X 10 ⁵ CFU/Carrier	A	20	0/20
		B	20	0/20
Pseudomonas aeruginosa	1.6 X 10 ⁷ CFU/Carrier	A (60 days old)	60	1/60
	1.0 X 10 ⁶ CFU/Carrier	B	60	0/60
	9.0 X 10 ⁶ CFU/Carrier	C	60	0/60
Salmonella choleraesuis	5.6 X 10 ⁴ CFU/Carrier	A (60 days old)	60	0/60
	5.4 X 10 ⁴ CFU/Carrier	B	60	1/60
	4.0 X 10 ⁴ CFU/Carrier	C	60	1/60
Salmonella typhi	4.0 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
Shigella sonnei	1.3 X 10 ⁴ CFU/Carrier	A	10	0/10
		B	10	0/10
Staphylococcus aureus (Methicillin Resistant)	4.2 X 10 ⁵ CFU/Carrier	A	10	0/10
		B	10	0/10
Staphylococcus aureus	1.6 X 10 ⁶ CFU/Carrier	A (60 days old)	60	1/60
	1.4 X 10 ⁶ CFU/Carrier	B	60	0/60
	1.4 X 10 ⁶ CFU/Carrier	C	60	1/60
Yersinia enterocolitica	4.6 X 10 ⁴ CFU/Carrier	A	20	0/20
		B	20	0/20

Data

Virucidal Data

Test Method:

Quat Rinse was evaluated at 4 ounces per 5 gallons use level (625 ppm quat active), in the presence of 5% serum with a 10 minute contact time and found to be effective against the following viruses on hard nonporous environmental surfaces.

Test Organisms:

Herpes Simplex Type 1
 Human Immunodeficiency Virus type 1 (HIV 1)
 Influenza A2/Japan
 Vaccinia virus

Results:

Test Organisms	Dried Virus Control	2331 Sample	Result	Log Reduction
Herpes Simplex Type1	6.8 Log ₁₀	A	≤1.0 Log ₁₀	≥5.8 Log ₁₀
		B	≤1.0 Log ₁₀	≥5.8 Log ₁₀
Human Immunodeficiency Virus type 1 (HIV 1)	5.5 Log ₁₀	A	≤1.5 Log ₁₀	≥4.0 Log ₁₀
		B	≤1.5 Log ₁₀	≥4.0 Log ₁₀
Influenza A2/Japan	7.5 Log ₁₀	A	≤1.8 Log ₁₀	≥5.7 Log ₁₀
		B	≤1.8 Log ₁₀	≥5.7 Log ₁₀
Vaccinia virus	6.8 Log ₁₀	A	≤1.8 Log ₁₀	≥5.0 Log ₁₀
		B	≤1.8 Log ₁₀	≥5.0 Log ₁₀

Quat Rinse Properties

AppearanceColorless Liquid
OdorBland
pH7.0 - 8.0
Use Dilution pH.....7.5
Typical Dilution (Sanitizer)1:512 (0.25 oz.)
Typical Dilution (Disinfectant).....1:160 (0.8 oz.)
Weight per Gallon8.29 lbs.
Viscosity0 - 5 cps.
USDA RatingD2
NSF RatingD2

EPA Registration Number 10324-63-3838