

# READIQUAT™

Ready-To-Use Virucidal\* Disinfectant Cleaner

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Readiquat is a phosphate-free disinfectant that does not contain phenol, bleach or VOCs

## Advantages

Readiquat is a versatile, ready-to-use, disinfectant for use in hospitals, nursing homes, schools, day care centers, food service establishments and other institutions where good housekeeping is of prime importance.

Cleaner  
Deodorizer  
Disinfectant  
Mildewstat  
Fungicide  
Virucide

## Claims

When used as directed, this formulation will clean and disinfect hard or inanimate environmental surfaces such as floors, walls, metal surfaces, stainless steel surfaces, porcelain, glazed ceramic tile, plastic surfaces, bathrooms, shower stalls, bathtubs and cabinets as well as counters, sinks, appliances and stove tops. In addition, this product will deodorize those areas that are generally hard to keep fresh-smelling such as garbage storage areas, empty garbage bins, basements, restrooms and other areas that are prone to odors caused by microorganisms.



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# Data

## Hospital Disinfection Data

**Test Method:**

Readiquat™ is bactericidal according to the AOAC Use Dilution Test method on hard inanimate surfaces modified in the presence of 5% organic serum (850 ppm active). Treated surfaces must remain wet for 10 minutes.

**Test Organisms:**

- |   |  |
|---|--|
| Campylobacter jejuni                            | Proteus vulgaris                                     |
| Corynebacterium ammoniagenes                    | Pseudomonas aeruginosa                               |
| Enterobacter aerogenes                          | Pseudomonas aeruginosa (Antibiotic Resistant)        |
| Enterobacter cloacae                            | Salmonella choleraesuis                              |
| Enterococcus faecalis                           | Salmonella typhi                                     |
| Enterococcus faecium Vancomycin Resistant (VRE) | Serratia marcescens                                  |
| Escherichia coli                                | Shigella dysenteriae                                 |
| Escherichia coli Antibiotic Resistant           | Shigella flexneri                                    |
| Escherichia coli O157:H7                        | Shigella sonnei                                      |
| Klebsiella pneumoniae                           | Staphylococcus aureus                                |
| Klebsiella pneumoniae Antibiotic Resistant      | Staphylococcus aureus (Methicillin Resistant) (MRSA) |
| Legionella pneumophila                          | Staphylococcus epidermidis (Antibiotic Resistant)    |
| Listeria monocytogenes                          | Streptococcus pyogenes                               |
| Proteus mirabilis                               |  |

**Results:**

Test Organisms	Carrier Population	Readiquat Sample	# Carriers	# Positive
Campylobacter jejuni	2.9 X 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Corynebacterium ammoniagenes	1.8 X 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Enterobacter aerogenes	4.1 X 10 <sup>6</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Enterobacter cloacae Clinical Isolate	3.9 X 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Enterococcus faecalis	9.4 X 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Enterococcus faecium Vancomycin Resistant	4.5 X 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Escherichia coli	3.2 X 10 <sup>5</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
Escherichia coli Antibiotic Resistant Clinical Isolate	3.9 X 10 <sup>5</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
Escherichia coli O157:H7	1.1 X 10 <sup>4</sup> CFU/Carrier	A	20	0/20
		B	20	0/20

**Results  
(continued):**

Test Organisms	Carrier Population	Readiquat Sample	# Carriers	# Positive
Klebsiella pneumoniae	9.9 X 10 <sup>4</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
Klebsiella pneumoniae Antibiotic Resistant Clinical Isolate	2.7 X 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Legionella pneumophila	8.2 X 10 <sup>7</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Listeria monocytogenes	1.85 X 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Proteus mirabilis Clinical Isolate	1.9 X 10 <sup>6</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
Proteus vulgaris	4.55 X 10 <sup>4</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
Pseudomonas aeruginosa	2.3 X 10 <sup>6</sup> CFU/Carrier	A (60 Days Old)	60	0/60
	1.7 X 10 <sup>6</sup> CFU/Carrier	B	60	0/60
	1.3 X 10 <sup>6</sup> CFU/Carrier	C	60	1/60
Pseudomonas aeruginosa (Antibiotic Resistant)	1.2 X 10 <sup>6</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Salmonella choleraesuis	1.1 X 10 <sup>5</sup> CFU/Carrier	A (60 Days Old)	60	0/60
	1.5 X 10 <sup>6</sup> CFU/Carrier	B	60	0/60
	2.1 X 10 <sup>6</sup> CFU/Carrier	C	60	0/60
Salmonella typhi	5.1 X 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Serratia marcescens	1.5 X 10 <sup>5</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
Shigella dysenteriae	5.45 X 10 <sup>4</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Shigella flexneri	4.85 X 10 <sup>4</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
Shigella sonnei	2.75 X 10 <sup>4</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
Staphylococcus aureus	1.5 X 10 <sup>6</sup> CFU/Carrier	A (60 Days Old)	60	0/60
	1.4 X 10 <sup>6</sup> CFU/Carrier	B	60	0/60
	4.7 X 10 <sup>5</sup> CFU/Carrier	C	60	0/60
Staphylococcus aureus (Methicillin Resistant)	1.45 X 10 <sup>5</sup> CFU/Carrier	A	20	0/20
		B	20	0/20
Staphylococcus epidermidis Antibiotic Resistant Clinical Isolate	4.2 X 10 <sup>5</sup> CFU/Carrier	A	10	0/10
		B	10	0/10
Streptococcus pyogenes	3.35 X 10 <sup>6</sup> CFU/Carrier	A	10	0/10
		B	10	0/10

# Data

## Virucidal Data

**Test Method:**

Readiquat™ was evaluated 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:**

Hepatitis B Virus (HBV)  
Hepatitis C Virus (HCV)  
Human Immunodeficiency Virus type 1 (HIV 1)

**Results:**

Test Organisms	Dried Virus Control	Quat 44-HBV Sample	Result	Log Reduction
Hepatitis B Virus (HBV)	5.5 Log <sub>10</sub>	A	≤1.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
	5.5 Log <sub>10</sub>	B	≤1.5 Log <sub>10</sub>	≥4.5 Log <sub>10</sub>
	4.5 Log <sub>10</sub>	Confirmatory A	≤1.5 Log <sub>10</sub>	≥3.0 Log <sub>10</sub>
Hepatitis C Virus (HCV)	6.84 Log <sub>10</sub>	A	≤1.51 Log <sub>10</sub>	≥5.33 Log <sub>10</sub>
	6.84 Log <sub>10</sub>	B	≤1.51 Log <sub>10</sub>	≥5.33 Log <sub>10</sub>
	7.14 Log <sub>10</sub>	Confirmatory B	≤1.7 Log <sub>10</sub>	≥5.44 Log <sub>10</sub>
Human Immunodeficiency Virus type 1 (HIV 1)	6.5 Log <sub>10</sub>	A	≤2.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>
		B	≤2.5 Log <sub>10</sub>	≥4.0 Log <sub>10</sub>

# Data

## Mold and Mildew Control Data

**Test Method:**

Use Readiquat™ 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.

**Results  
(continued):**

Sample	Tile Number	Untreated After 7 Days	Sample A After 7 Days	Sample B After 7 Days
Aspergillus niger	1	Growth 100%	No Growth 0%	No Growth 0%
	2	Growth 100%	No Growth 0%	No Growth 0%
	3	Growth 80%	No Growth 0%	No Growth 0%
	4	Growth 80%	No Growth 0%	No Growth 0%
	5	Growth 100%	No Growth 0%	No Growth 0%
	6	Growth 80%	No Growth 0%	No Growth 0%
	7	Growth 80%	No Growth 0%	No Growth 0%
	8	Growth 80%	No Growth 0%	No Growth 0%
	9	Growth 80%	No Growth 0%	No Growth 0%
	10	Growth 80%	No Growth 0%	No Growth 0%

## Readiquat Properties

Appearance .....Blue  
 Odor .....Floral  
 pH .....8.7 - 9.7  
 Use Dilution pH .....N/A  
 Typical Dilution.....Ready-To-Use  
 Weight per Gallon .....8.34 lbs.  
 Viscosity.....0 - 5 cps.  
 Active Quat .....0.09%

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