



**Sanityze® Waterless Moisturizing Antimicrobial Gel Time Kill Test**

**Sample: SaniTyz Waterless Moisturizing Antimicrobial Gel FDA National Drug Code - 058575-340**

Bacteria	Initial .5ml concentration in Sample	CFU's/ML of Test Microorganisms Recovered at Time - Sec. at 30 Seconds	Percent reduction at 30 Seconds
P. aeruginos ATCC 15442	2.1 X 10 <sup>7</sup>	<10	>99.99%
S. typhi ATCC 6994	3.1 X 10 <sup>7</sup>	<10	>99.99%
S. aureus ATCC 6538	2.7 X 10 <sup>7</sup>	3.9 X 10 <sup>5</sup>	>99.99%
Clostridium Difficile (C-Diff)	1.9 X 10 <sup>7</sup>	<10	>99.99%
Vancomycin-R-enterococcus (VRE)	2.3 X 10 <sup>7</sup>	<10	>99.99%
Dalfopristin-R-enterococcus (DRE)	5.5 X10 <sup>7</sup>	3.0 X 10	>99.99%

**Meets USDA Protocol for Chlorine Equivalency**

Microorganism	Sodium Hypochlorite Equivalency ppm as Available Chlorine
Staphylococcus aureus	>200 ppm
Salmonella typhosa	>200 ppm

**Percent Reduction of Bacteria @ 15 Seconds**

Microorganism	% Reduction	ATCC No.
Acinetobacter baumannii	>99.99	19606
Bacillus megaterium	>99.99	14581
Citrobacter freundii	>99.99	8090
Clostridium difficile	99.99	9689
Corynebacterium diphtheriae	>99.99	11913
Enterobacter aerogenes	>99.99	13048
Vancomycin resistant Enterococcus faecium	>99.99	51575
Vancomycin resistant	>99.99	51559
Escherichia coli	>99.99	11229
Escherichia coli (O157; H7)	>99.99	35150
Klebsiella ozaenae	>99.99	11296
Klebsiella pneumoniae	>99.99	13883

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### Percent Reduction of Bacteria @ 15 Seconds (Continued)

Microorganism	% Reduction	ATCC No.
Lactobacillus plantarum	>99.99	14917
Listeria monocytogenes	>99.99	15313
Proteus mirabilis	>99.99	7002
Proteus vulgaris	>99.99	13315
Pseudomonas aeruginosa	>99.99	15442
Salmonella enteritidis	>99.99	13076
Salmonella typhimurium	>99.99	14028
Serratia marcescens	>99.99	14756
Shigella dysenteriae	>99.99	13313
Shigella sonnei	>99.99	11060
Methicillin resistant Staphylococcus aureus (MRSA)	>99.99	33591
Methicillin resistant Vancomycin tolerant	>99.99	Clinical Isolate
Staphylococcus epidermidis	>99.99	12228
Streptococcus pneumoniae	99.99	33400
Streptococcus pyogenes	>99.99	19615
Yeasts and Fungi	% Reduction	ATCC No.
Aspergillus flavus	>99.99	9643
Aspergillus niger	>99.99	9642
Candida albicans	>99.99	14053
Candida tropicalis	>99.99	13803
Epidermophyton floccosum	>99.98	52063
Penicillium citrinum	>99.99	9849
Trichophyton metagropytes	>99.99	9533
Conclusion: Very effective reduction of Gram-negative and Gram-positive bacteria, yeasts and fungi.		