



## SUMMARY OF IN VITRO ANTIMICROBIAL EFFECTIVENESS RESULTS

Test Substance: HandClens Instant Hand Sanitizer  
 Dilution Tested: Ready to use (RTU)

Exposure Times: 15 seconds

Methods: NCCLS M7-A4 (bacteria);  
 NCCLS M-27-A (fungi);  
 ASTM E1052-85 (viruses)

Exposure Temperatures: Room Temperature (23°C)

Test Facilities (TF): 1: Viomed Laboratories, Inc.  
 2: ATS Labs, Inc.  
 3: SCI Laboratories, Inc  
 4: Woodward Laboratories, Inc.  
 5: Hill Top Research, Inc.

### EFFICACY RESULTS:

Organism	ATCC Number	TF	Percent Reduction
Candida albicans	90234	4,5	≥99.999
Candida keyfr	46764	4	≥99.999
C. difficile	9689	5	>99.99
C. freundii	8090	5	>99.99
Escherichia coli	25922	5	>99.99
Escherichia coli O157:H7	35150	5	>99.99
Escherichia coli	11229	4, 5	≥99.999
Enterococcus faecalis	1177S	3	≥99.999
Enterococcus faecalis (VRE)	49452	4	≥99.999
Enterococcus faecalis	51575	3,4	≥99.999
Enterococcus faecium (VRE)	clinical isolate	3	≥99.999
Enterococcus faecium	51575 & 51559	5	≥99.999
Klebsiella pneumonia	clinical isolate	3	≥99.999
Klebsiella pneumonia	9997	4	≥99.999
Klebsiella pneumonia	13883	5	>99.99
L. monocytogenes	15313	5	>99.99
Micrococcus luteus	clinical isolate	3	≥99.999
Micrococcus luteus	7468	5	>99.99
Pseudomonas aeruginosa	clinical isolate	3	≥99.999
Pseudomonas aeruginosa	10145	4	≥99.999
Pseudomonas aeruginosa	15442	4, 5	≥99.999
Pseudomonas aeruginosa	27853	4, 5	≥99.999
Pseudomonas aeruginosa	9027	4	≥99.999

Proteus mirabilis	clinical isolate	3	≥99.999
Proteus mirabilis	7002	5	>99.99
P. vulgaris	13315	5	>99.99
Salmonella typhimurium	12453	4	≥99.99
Serratia marcescens	19585	4	≥99.999
Staphylococcus aureus	8100	3	≥99.999
Staphylococcus aureus	29213	4, 5	≥99.999
Staphylococcus aureus (MRSA)	33591	3, 5	≥99.999
Staphylococcus aureus	29213	5	>99.99
Staphylococcus aureus	25923	3	≥99.999
S. aureus	Vancomycin intermediate, Oxycillin resistant Clinical Isolate	5	>99.99
S. enteritidis	13076	5	>99.99
S. enteritidis	6538	4,	≥99.999
Staphylococcus epidermidis	12228	4, 5	≥99.999
Staphylococcus haemolyticus	12228	3,4	≥99.99
S. pneumoniae	33400	5	>99.99
Staphylococcus saprophyticus	29970	4	≥99.998
Staphylococcus saprophyticus	15305	4	≥99.999
Streptococcus pyogenes	19615	5	>99.99
Streptococcus pyogenes	clinical isolate	3	≥99.999
Herpes simplex virus Type 1,	19613	3	≥99.999
HIV, Hepatitis B		1	>99.99
Human Coronavirus Strain 229E	VR-733	1	≥99.9; no viable virus detected at any test dilution
Influenza virus Type A2	VR-740	2	≥99.8; no viable virus detected at any test dilution
	VR-544	1	≥99.0 (30')