

CLEA Time Kill Study



Product Tested:

CLEA Alcohol Free Instant Hand Sanitizer
 CL11604, CL11706, CL11804

This study is designed to examine the rate of kill of a test substance after inoculation with a test organism.
 Results are expressed in percent reduction and log reduction of the test organism.
 Exposure time 15 Seconds

Organism	Test Population Control (CFU/ml)	Number of Survivors (CFU/ml)	% Reduction	Log Reduction
<i>Campylobacter jejuni</i> ATCC 29428	1.02 X 10 ⁷	<1 X 10 ²	>99.999	>5.00 Log ₁₀
<i>Candida albicans</i> ATCC 10231	1.60 X 10 ⁵	6.0 X 10 ³	96.3	1.42 Log ₁₀
<i>Clostridium difficile</i> ATCC 9689	3.40 X 10 ⁶	<2	>99.9999	>6.20 Log ₁₀
<i>Enterococcus faecalis</i> Vancomycin Resistant (VRE) ATCC 51575	1.12 X 10 ⁶	3.2 X 10 ¹	99.99	4.54 Log ₁₀
<i>Escherichia coli</i> ATCC 11229	3.80 X 10 ⁶	4	99.999	6.00 Log ₁₀
<i>Escherichia coli</i> O157:H7 ATCC 35150	1.26 X 10 ⁶	<2	>99.999	>5.80 Log ₁₀
<i>Klebsiella pneumoniae</i> ATCC 4352	1.10 X 10 ⁶	2	99.999	5.70 Log ₁₀
<i>Listeria monocytogenes</i> ATCC 19117	4.7 X 10 ⁶	1.9 X 10 ³	99.9	3.39 Log ₁₀
<i>Pseudomonas aeruginosa</i> ATCC 15442	3.5 X 10 ⁶	<2	99.9999	>6.20 Log ₁₀
<i>Salmonella choleraesuis</i> serotype enteritidis ATCC 4931	6.8 X 10 ⁵	2	>99.999	5.50 Log ₁₀
<i>Salmonella choleraesuis</i> serotype paratyphi ATCC 8759	5.6 X 10 ⁵	<2	>99.999	>5.50 Log ₁₀
<i>Salmonella choleraesuis</i> serotype pullorum ATCC 19945	8.9 X 10 ⁵	<2	>99.999	>5.70 Log ₁₀
<i>Salmonella choleraesuis</i> serotype typhimurium ATCC 23564	7.7 X 10 ⁵	6	>99.999	>5.10 Log ₁₀
<i>Salmonella typhi</i> ATCC 6539	1.27 X 10 ⁶	2	99.999	5.80 Log ₁₀
<i>Shigella dysenteriae</i> ATCC 13313	1.3 X 10 ⁶	<2	>99.999	>5.80 Log ₁₀
<i>Shigella flexneri</i> ATCC 12022	1.39 X 10 ⁶	2.8 X 10 ¹	99.99	4.69 Log ₁₀
<i>Shigella sonnei</i> ATCC 25931	2.43 X 10 ⁷	2.0 X 10 ¹	99.9999	6.09 Log ₁₀
<i>Staphylococcus aureus</i> ATCC 6538	6.7 X 10 ⁶	<2	>99.9999	>6.53 Log ₁₀
<i>Staphylococcus aureus</i> Methicillin Resistant (MRSA) ATCC 33592	1.23 X 10 ⁷	3.8 X 10 ³	>99.9	3.51 Log ₁₀
<i>Staphylococcus epidermidis</i> ATCC 12228	7.2 X 10 ⁵	<2	99.999	5.56 Log ₁₀
<i>Streptococcus pneumoniae</i> ATCC 6305	6.4 X 10 ⁵	<2	>99.999	>5.51 Log ₁₀
<i>Streptococcus pyogenes</i> ATCC 19615	1.77 X 10 ⁶	<2	>99.999	>5.90 Log ₁₀
<i>Vibrio cholera</i> ATCC 11623	4.7 X 10 ⁵	<2	>99.999	>5.40 Log ₁₀
<i>Xanthomonas axonopodis</i> (Citrus Canker) ATCC 49118	1.28 X 10 ⁶	3.6 X 10 ¹	>99.99	4.55 Log ₁₀
<i>Yersinia enterocolitica</i> ATCC 23715	2.23 X 10 ⁶	3.8 X 10 ¹	99.99	4.77 Log ₁₀