

LOG REDUCTION CHART

Log reduction	% of germs	Fold reduction
1 log	90	10
2 log	99	100
3 log	99.9	1,000
4 log	99.99	10,000
5 log	99.999	100,000
6 log	99.9999	1,000,000



SteriZar achieves 6 log reduction



Abbott Analytical

Consulting Scientists to the Disinfectant Industry



Understanding log kill rates

Log 1 CASUAL CLEANING

90% of bacteria killed (1 in 10 survive). Possibility of resistance developing in microbial population.

Log 2 CLEANING

99% of bacteria killed (1 in 100 survive). Possibility of resistance developing in microbial population.

Log 3 THOROUGH CLEANING

99.9% of bacteria killed (1 in 1,000 survive). Still possibility of resistance developing.

Log 4 SANITISING

99.99% of bacteria killed (1 in 10,000 survive). Must achieve this for EN surface tests.

Log 5 DISINFECTION

99.999% of bacteria killed (1 in 100,000 survive). Basis of EN testing. Must achieve this for most suspension tests.

Log 6 HIGH LEVEL DISINFECTION

99.9999% of bacteria killed (1 in 1,000,000 survive). Using EN tests, a log 6 reduction would mean 100% kill of bacteria in a test suspension.

Log 8

Level of inoculum used for EN suspension tests. 100 million bacteria per ml.