



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.