



Microbiological Efficacy Summary

	TEST NORM	TEST TYPE	ORGANISM	LOG REDUCTION REQUIRED	LOG REDUCTION ACHIEVED	LABORATORY	CONDITIONS	CONTACT TIME
SPORICIDAL	EN 13704	Suspension	<i>Bacillus subtilis</i>	≥ 3 log	> 3.40 log	MGS	Clean 1	30 sec.
			<i>Bacillus cereus</i>		> 3.00 log			
			<i>Clostridium difficile</i>		> 5.19 log	HIRL		
			<i>Bacillus subtilis</i>		> 3.57 log	MGS		
			<i>Bacillus cereus</i>		> 3.29 log			
			EN 17126		Suspension	<i>Bacillus subtilis</i>	≥ 4 log	
<i>Bacillus cereus</i>	> 4.36 log							

MYCOBACTERICIDAL	EN 14563	Carrier	<i>Mycobacterium terrae</i>	≥ 4 log	> 6.57 log	MGS	Dirty 1	30 sec.
			<i>Mycobacterium avium</i>		> 6.65 log			
	EN 14348	Suspension	<i>Mycobacterium terrae</i>	≥ 4 log	> 6.02 log		Clean 1	
			<i>Mycobacterium avium</i>		> 6.63 log			

VIRUCIDAL	EN 14476	Suspension	Poliovirus Type 1	≥ 4 log	> 5.38 log	Dr Brill & Dr Steinmann	Clean 1	30 sec.
			Adenovirus Type 5		> 5.25 log			
			Murine Norovirus		> 5.25 log			
	ASTM E-1053	Surface	Poliovirus Type 1	≥ 4 log	> 5.75 log	Accuratus Laboratories	Dirty 1	
			Adenovirus Type 5		> 7.25 log			
			Hepatitis B Virus (HBV)		> 4.76 log			
			Herpes Simplex Virus Type 1		> 4.25 log			
			Human Immunodeficiency Virus (HIV)		> 4.00 log			
			Influenza A Virus (H1N1)		> 5.00 log			
	EN 16615	Surface with mechanical action	Norovirus (using murine norovirus surrogate)	≥ 4 log* and <50 CFU/25 cm ²	4.26 and no detectable viruses on squares 2-4	MSL	Clean 1	

FUNGICIDAL/YEASTICIDAL	TEST NORM	TEST TYPE	ORGANISM	LOG REDUCTION REQUIRED	LOG REDUCTION ACHIEVED	LABORATORY	CONDITIONS	CONTACT TIME
	EN 13697	Surface	<i>Candida albicans</i>	≥ 4 log	> 4.22 log	MGS	Clean 1	30 sec.
	EN 16615	Surface with mechanical action	<i>Candida albicans</i>	≥ 4 log and <50 CFU/25 cm ²	> 4.16 log and <5 CFUs	MGS	Clean 1	
			<i>Aspergillus brasiliensis</i>		> 4.10 log and <5 CFUs			
	EN 14562	Carrier	<i>Aspergillus brasiliensis</i>	≥ 4 log	> 4.36 log	Hygiene Nord	Clean 1	
			<i>Candida albicans</i>		> 4.08 log	MGS		
			<i>Candida auris</i>		> 4.06 log			
	EN 13624	Suspension	<i>Aspergillus brasiliensis</i>	≥ 4 log	> 4.23 log	Hygiene Nord	Clean 1	
			<i>Candida albicans</i>		> 4.51 log			

BACTERICIDAL	EN 13697	Surface	<i>Enterococcus hirae</i>	≥ 5 log	> 5.62 log	MGS	Clean 1	30 sec.
			<i>Staphylococcus aureus</i>		> 5.90 log			
			<i>Pseudomonas aeruginosa</i>		> 5.52 log			
			<i>Escherichia coli</i>		> 5.36 log			
	EN 16615	Surface with mechanical action	<i>Staphylococcus aureus</i>	≥ 5 log and <50 CFU/25 cm ²	> 5.80 log and <5 CFUs	MGS	Clean 1	
			<i>Enterococcus hirae</i>		> 5.03 and <5 CFUs			
			<i>Pseudomonas aeruginosa</i>		> 5.31 log and 2.50 CFUs			
	EN 14561	Carrier	<i>Staphylococcus aureus</i>	≥ 5 log	> 5.80 log	Biotech Germande	Clean 1	
			<i>Enterococcus hirae</i>		> 5.60 log			
			<i>Pseudomonas aeruginosa</i>		> 5.50 log			
			Carbapenem Resistant Enterobacteriaceae (CRE) <i>Klebsiella pneumoniae</i>		> 6.72 log	MGS		
			Vancomycin Resistant Enterococci (VRE) <i>Enterococcus faecium</i>		> 6.80 log			
	EN 13727	Suspension	<i>Staphylococcus aureus</i>	≥ 5 log	> 5.18 log	Hygiene Nord	Clean 1	
			<i>Enterococcus hirae</i>		> 5.27 log			
			<i>Pseudomonas aeruginosa</i>		> 5.54 log			

Clean/Dirty Conditions Key:

Clean 1: 0.3 g/L bovine albumin - **Dirty 1:** 5% Blood Serum - **Dirty 2:** 3g/l bovine albumin + 3g/l blood erythrocytes

*requirement based on BS EN 14476