

	Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time
Sporicidal	EN 14561/AOAC 966.04	Carrier	<i>Clostridium sporogenes</i>	> 6 log	>6.34 log	HygieneNord	Dirty 3	30 sec.
	EN 14347	Suspension	<i>Bacillus subtilis</i>	> 4 log	> 4.64 log	IRM	N/A	
			<i>Bacillus cereus</i>	> 4 log	> 4.79 log	IRM	N/A	
			<i>Bacillus cereus</i>	> 4 log	> 4.34 log	MGS	N/A	
	Bespoke Wiping Test	Surface	<i>Bacillus subtilis</i>	N/A	5.1 log	Institut de Recherche Microbiologique	Dirty 1	
Bespoke Wiping Test	Surface	<i>Bacillus subtilis</i>	N/A	Total Kill	Q laboratories Dr Coates	N/A		
Mycobactericidal	EN 14563	Carrier	<i>Mycobacterium avium</i>	> 4 log	> 6.23 log	MGS	Dirty 3	30 sec.
			<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i> )	> 4 log	> 6.69	MGS	Dirty 3	
			<i>Mycobacterium avium</i>	> 4 log	4.89 log	Germans Trias i Pujol Hospital (Spain)	Clean 1	
			<i>Mycobacterium avium</i>	> 4 log	> 6.23 log	MGS	Clean 1	
			<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i> )	> 4 log	> 5.64 log	MGS	Clean 1	
			<i>Mycobacterium avium</i>	> 4 log	>5.40 log	Hygiene Nord GMBH	Clean 1	
			<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i> )	> 4 log	>5.73 log	Hygiene Nord GMBH	Clean 1	
	Bespoke Wiping Test	Surface	<i>Mycobacterium avium</i>	> 4 log	7.3 log	IRM	Dirty 1	
			<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i> )	> 4 log	5.1 log	IRM	Dirty 1	
			<i>Mycobacterium tuberculosis</i>	> 4 log	6.6 log	IRM	Dirty 1	
	Griffiths et al. Journal of Hospital Infection (1998)	Suspension	<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i> )	> 4 log	>5.72	HIRL	N/A	
	EN 14348	Suspension	<i>Mycobacterium avium</i>	> 4 log	>6.29	IRM	Clean 1	
			<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i> )	> 4 log	>6.22	IRM	Clean 1	
			<i>Mycobacterium avium</i>	> 4 log	> 6.43 log	MGS	Clean 1	
<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i> )			> 4 log	> 6.53 log	MGS	Clean 1		
Virucidal	EN 14476	Suspension	Poliovirus T1	> 4 log	4.50 log	Dr Brill & Dr Steinmann	Clean 1	30 sec.
			Adenovirus T5	> 4 log	>5.50 log	Dr Brill & Dr Steinmann	Clean 1	
			Murine Norovirus	> 4 log	>5.13 log	Dr Brill & Dr Steinmann	Clean 1	
	Bespoke Testing	Suspension	Hepatitis B	N/A	Total Kill	Micropathology Lab	N/A	
			Hepatitis C & HIV	N/A	Total Kill	Micropathology Lab	N/A	
	DVV & RKI	Suspension	Polyoma Virus SV40 (Surrogate for HPV)	> 4 log	>5.50 log	Mikrolab GmbH	Clean 2	
			Polyoma Virus SV40 (Surrogate for HPV)	> 4 log	>5.50 log	Mikrolab GmbH	Dirty 2	
			Poliovirus	> 4 log	>5.38 log	Mikrolab GmbH	Clean 2	
			Poliovirus	> 4 log	>5.38 log	Mikrolab GmbH	Dirty 2	
			Adenovirus T5	> 4 log	>5.38 log	Mikrolab GmbH	Clean 2	
			Adenovirus T5	> 4 log	>5.38 log	Mikrolab GmbH	Dirty 2	
			Vaccinia Virus	> 4 log	>5.13 log	Mikrolab GmbH	Clean 2	
			Vaccinia Virus	> 4 log	>5.50 log	Mikrolab GmbH	Dirty 2	
	ASTM E1053 - 02	Surface	Poliovirus Type 1	> 4 log	>3.38 log (no residual virus found)	Eurofins	Dirty 3	
Human Herpesvirus			> 4 log	4.73 log	Eurofins	Dirty 3		

	Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time	
Fungicidal/Yeasticial	AOAC 965.12	Carrier	<i>Trichophyton interdigitale</i>	No positive subculture tubes	0 out of 10 positive subculture tubes	Microchem Laboratory	Dirty 3	30 sec.	
	EN 14562	Carrier	<i>Candida albicans</i>	> 4 log	> 4.74 log	Hygiene Nord GMBH	Clean 1	30 sec.	
			<i>Candida albicans</i>	> 4 log	> 4.18 log	MGs	Clean 1		
			<i>Candida albicans</i>	> 4 log	> 4.37 log	MGs	Dirty 4		
	EN 13624	Suspension	<i>Candida albicans</i>	> 4 log	> 4 log	MGs	Clean 1		
			<i>Aspergillus brasiliensis (formerly niger)</i>	> 4 log	> 4 log	MGs	Clean 1		
			<i>Candida albicans</i>	> 4 log	> 4.48 log	MGs	Clean 1		
			<i>Candida albicans</i>	> 4 log	> 4.48 log	MGs	Dirty 4		
			<i>Candida albicans</i>	> 4 log	> 4.41 log	Hygiene Nord GMBH	Clean 1		
			<i>Aspergillus brasiliensis (formerly niger)</i>	> 4 log	> 4.08 log	Hygiene Nord GMBH	Clean 1		
			<i>Aspergillus brasiliensis (formerly niger)</i>	> 4 log	> 4.46 log	MGs	Clean 1		
			<i>Aspergillus brasiliensis (formerly niger)</i>	> 4 log	> 4.46 log	MGs	Dirty 1		
	Bactericidal	EN 14561	Carrier	<i>Staphylococcus aureus</i>	> 5 log	> 5.81 log	MGs		Clean 1
<i>Staphylococcus aureus</i>				> 5 log	> 5.77 log	MGs	Dirty 4		
<i>Staphylococcus aureus</i>				> 5 log	> 5.65 log	Hygiene Nord GMBH	Clean 1		
<i>Pseudomonas aeruginosa</i>				> 5 log	> 5.61 log	MGs	Clean 1		
<i>Pseudomonas aeruginosa</i>				> 5 log	> 5.20 log	MGs	Dirty 4		
<i>Pseudomonas aeruginosa</i>				> 5 log	> 5.64 log	Hygiene Nord GMBH	Clean 1		
<i>Enterococcus hirae</i>				> 5 log	> 5.85 log	MGs	Clean 1		
<i>Enterococcus hirae</i>				> 5 log	> 5.95 log	MGs	Dirty 4		
<i>Enterococcus hirae</i>				> 5 log	> 5.60 log	Hygiene Nord GMBH	Clean 1		
<i>Escherichia coli</i>				> 5 log	> 6.17 log	MGs	Clean 1		
<i>Escherichia coli</i>				> 5 log	> 6.21 log	MGs	Dirty 4		
Vancomycin-Resistant <i>Enterococcus faecium</i>				> 5 log	> 5.73 log	MGs	Clean 1		
<i>Klebsiella pneumoniae</i>				> 5 log	> 5.26 log	MGs	Clean 1		
EN 13727		Suspension	<i>Staphylococcus aureus</i>	> 5 log	> 5.34 log	MGs	Clean 1		
			<i>Staphylococcus aureus</i>	> 5 log	> 5.34 log	MGs	Dirty 4		
			<i>Staphylococcus aureus</i>	> 5 log	> 5.69 log	Hygiene Nord GMBH	Clean 1		
			<i>Pseudomonas aeruginosa</i>	> 5 log	> 5.10 log	MGs	Clean 1		
			<i>Pseudomonas aeruginosa</i>	> 5 log	> 5.10 log	MGs	Dirty 4		
			<i>Pseudomonas aeruginosa</i>	> 5 log	> 5.54 log	Hygiene Nord GMBH	Clean 1		
			<i>Enterococcus hirae</i>	> 5 log	> 5.10 log	MGs	Clean 1		
<i>Enterococcus hirae</i>	> 5 log	> 5.10 log	MGs	Dirty 4					
<i>Enterococcus hirae</i>	> 5 log	> 5.46 log	Hygiene Nord GMBH	Clean 1					

#### Clean Conditions Key

Clean 1: 0.3 g/L bovine albumin  
Clean 2: Aqua bidest

#### Dirty Conditions Key

Dirty 1: 3 g/L bovine albumin  
Dirty 2: 10% Fetal Calf Serum  
Dirty 3: 5% Fetal Bovine Serum  
Dirty 4: 3.0 g/L bovine albumin + 3 ml/l sheep erythrocytes



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