

	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		

	Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time
Mycobactericidal	EN 14563	Carrier	<i>Mycobacterium avium</i>	≥ 4 log	> 6.23 log	MGS	Dirty 3	30 sec.
			<i>Mycobacterium terrae</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>	≥ 4 log	> 5.64 log	MGS	Clean 1	
			<i>Mycobacterium avium</i>	≥ 4 log	> 5.40 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>	≥ 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>	≥ 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>	≥ 4 log	> 6.22	IRM	Clean 1	
			<i>Mycobacterium avium</i>	≥ 4 log	> 6.43 log	MGS	Clean 1	
<i>Mycobacterium terrae</i>			≥ 4 log	> 6.53 log	MGS	Clean 1		

	Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time
Virucidal	EN 14476	Suspension	Poliovirus Type 1	≥ 4 log	4.50 log	Dr Brill & Dr Steinmann	Clean 1	30 sec.
			Adenovirus Type 5	≥ 4 log	> 5.50 log	Dr Brill & Dr Steinmann	Clean 1	
			Norovirus (using murine norovirus surrogate)	≥ 4 log	> 5.13 log	Dr Brill & Dr Steinmann	Clean 1	
	Bespoke Testing	Suspension	Hepatitis B Virus (HBV)	N/A	Total Kill	Micropathology Lab	N/A	
			Hepatitis C Virus (HCV) & Human Immunodeficiency Virus (HIV)	N/A	Total Kill	Micropathology Lab	N/A	
	DVV & RKI	Suspension	Human Papillomavirus (using polyoma virus SV40 surrogate)	≥ 4 log	> 5.50 log	Mikrolab GmbH	Clean 2	
			Human Papillomavirus (using polyoma virus SV40 surrogate)	≥ 4 log	> 5.50 log	Mikrolab GmbH	Dirty 2	
			Poliovirus Type 1	≥ 4 log	> 5.38 log	Mikrolab GmbH	Clean 2	
			Poliovirus Type 1	≥ 4 log	> 5.38 log	Mikrolab GmbH	Dirty 2	
			Adenovirus Type 5	≥ 4 log	> 5.38 log	Mikrolab GmbH	Clean 2	
			Adenovirus Type 5	≥ 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 Type 1	≥ 4 log	4.73 log	Eurofins	Dirty 3	
	EN 16615	Surface with mechanical action	Norovirus (using murine norovirus surrogate)	≥ 4 log and < 50 CFUs per 25cm²	4.34 log* (no detectable viruses on squares 2-4)	MSL	Clean 1	

Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time
AOAC 955.15	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	
		<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</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</i>	≥ 4 log	> 4.08 log	Hygiene Nord GMBH	Clean 1	
		<i>Aspergillus brasiliensis</i>	≥ 4 log	> 4.46 log	MGS	Clean 1	
		<i>Aspergillus brasiliensis</i>	≥ 4 log	> 4.46 log	MGS	Dirty 1	
EN 16615	Surface with mechanical action	<i>Candida albicans</i>	≥ 4 log and < 50 CFUs per 25cm ²	> 4 log and < 5 CFUs per 25cm ²	MGS	Clean 1	
		<i>Aspergillus brasiliensis</i>	≥ 4 log and < 50 CFUs per 25cm ²	> 4.10 log and 35.8 CFUs per 25cm ²	MGS	Clean 1	

Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time
EN 14561	Carrier	<i>Enterobacter cloacae</i>	≥ 5 log	> 5.63 log	MGS	Clean 1	30 sec.
		<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 Enterococci (VRE) <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	
<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	
Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA)	≥ 5 log	> 5.21 log	MGS	Clean 1			
EN 16615	Surface with mechanical action	<i>Staphylococcus aureus</i>	≥ 5 log and < 50 CFUs per 25cm ²	> 5.64 log and < 5 CFUs per 25cm ²	MGS	Clean 1	
		<i>Pseudomonas aeruginosa</i>	≥ 5 log and < 50 CFUs per 25cm ²	> 5 log and < 5 CFUs per 25cm ²	MGS	Clean 1	
		<i>Enterococcus hirae</i>	≥ 5 log and < 50 CFUs per 25cm ²	> 5.66 log and < 5 CFUs per 25cm ²	MGS	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

*based on requirements of EN 14476



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Mkt-Mic-175-6
April 2019