

	Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time	
Sporicidal	EN 14347	Suspension	<i>Bacillus subtilis</i>	> 4 log	> 4.64 log	IRM	N/A	30 sec.	
			<i>Bacillus cereus</i>	> 4 log	> 4.79 log	IRM	N/A		
			<i>Bacillus cereus</i>	> 4 log	> 4.34 log	MGS	N/A		
	AFNOR T72 - 190	Carrier	<i>Bacillus subtilis</i>	N/A	5.1 log	Institut de Recherche Microbiologique	Dirty 1		
	Bespoke Wiping Test	Carrier	<i>Bacillus subtilis</i>	N/A	Total Kill	Q laboratories Dr Coates	N/A		
Mycobactericidal	EN 14563	Carrier	<i>Mycobacterium avium</i>	> 4 log	4.89 log	Germans Trias i Pujol Hospital (Spain)	Clean 1	30 sec.	
			<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		
	EN 14348	Suspension	<i>Mycobacterium avium</i>	> 4 log	7.3 log	IRM	Dirty 1	30 sec.	
			<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		
			<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	Eurofins Biolab	Clean 1	30 sec.
				Adenovirus T5	> 4 log	5.00 log	Eurofins Biolab	Clean 1	
Murine Norovirus				> 4 log	4.00 log	Eurofins Biolab	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	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		
<b>Fungicidal/Yeasticidal</b>	EN 14562	Carrier	<i>Candida albicans</i>	> 4 log	> 4.18 log	MGS	Clean 1	30 sec.		
			<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 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>Aspergillus niger</i>	> 4 log	> 4.46 log	MGS	Clean 1			
			<i>Aspergillus niger</i>	> 4 log	> 4.46 log	MGS	Dirty 1			
	<b>Bactericidal</b>	EN 14561	Carrier	<i>Staphylococcus aureus</i>	> 5 log	> 5.81 log	MGS		Clean 1	30 sec.
				<i>Staphylococcus aureus</i>	> 5 log	> 5.77 log	MGS		Dirty 4	
<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>Enterococcus hirae</i>				> 5 log	> 5.85 log	MGS	Clean 1			
<i>Enterococcus hirae</i>				> 5 log	> 5.95 log	MGS	Dirty 4			
<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> (VRE)				> 5 log	> 5.73 log	MGS	Clean 1			
<i>Klebsiella pneumoniae</i>				> 5 log	> 5.28 log	MGS	Clean 1			
EN 13727		Suspension	<i>Staphylococcus aureus</i>	> 5 log	> 5.10 log	MGS	Clean 1			
			<i>Staphylococcus aureus</i>	> 5 log	> 5.10 log	MGS	Dirty 4			
			<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>Enterococcus hirae</i>	> 5 log	> 5.10 log	MGS	Clean 1			
			<i>Enterococcus hirae</i>	> 5 log	> 5.10 log	MGS	Dirty 4			

### Clean/Dirty Conditions Key

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

**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