

Microbiological Efficacy Summary
Testing performed in accordance to European Standard EN 14885:2018

	ORGANISM	TEST NORM	TEST TYPE	CONDITIONS	
SPORICIDAL	<i>Bacillus cereus</i>	EN 13704	Suspension	Dirty 1	
	<i>Bacillus subtilis</i>			Clean 1	
	<i>Bacillus cereus</i>				
MYCOBACTERICIDAL	<i>Mycobacterium terrae</i>	EN 14563	Carrier	Clean 1 and Dirty 2	
	<i>Mycobacterium avium</i>				
	<i>Mycobacterium terrae</i>	EN 14348	Suspension	Clean 1	
	<i>Mycobacterium avium</i>				
VIRUCIDAL	Poliovirus Type 1	EN 14476	Suspension	Clean 1	
	Adenovirus Type 5				
	Murine Norovirus				
FUNGICIDAL / YEASTICIDAL	<i>Candida albicans</i>	EN 16615	Surface with mechanical action	Clean 1	
	<i>Candida albicans</i>	EN 13697	Surface		
	<i>Aspergillus brasiliensis</i>	EN 14562	Carrier		
	<i>Candida albicans</i>				
	<i>Aspergillus brasiliensis</i>	EN 13624	Suspension		
<i>Candida albicans</i>					
BACTERICIDAL	<i>Staphylococcus aureus</i>	EN 16615	Surface with mechanical action	Clean 1	
	<i>Enterococcus hirae</i>				
	<i>Pseudomonas aeruginosa</i>				
	<i>Enterococcus hirae</i>	EN 13697	Surface		
	<i>Staphylococcus aureus</i>				
	<i>Pseudomonas aeruginosa</i>				
	<i>Escherichia coli</i>	EN 14561	Carrier		
	<i>Staphylococcus aureus</i>				
	<i>Enterococcus hirae</i>				
	<i>Pseudomonas aeruginosa</i>	EN 13727	Suspension		Clean 1 and Dirty 1
	<i>Staphylococcus aureus</i>				
	<i>Enterococcus hirae</i>				
<i>Pseudomonas aeruginosa</i>					

Additional Testing

DNA / RNA	TEST METHOD
	Polyacrylamide gel electrophoresis (PAGE)

PROTOZOA	ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
	<i>Acanthamoeba castellanii</i> cysts	Following the method of EN 13704	Suspension	Clean 1

SPORES	ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
	<i>Bacillus cereus</i>	EN 17126	Suspension	Clean 1
	<i>Clostridium difficile</i>	EN 13704	Suspension	Clean 1 and Dirty 1
	<i>Bacillus subtilis</i>	EN 14347	Suspension	Non applicable
	<i>Bacillus cereus</i>			
<i>Bacillus subtilis</i> var niger	Babb JR, Bradely CR & Ayliffe GAJ (J. of Hosp. Inf. 1980 1:63-75)	Suspension	Clean 1 and Dirty 1	

MYCOBACTERIA	ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
	<i>Mycobacterium avium</i>	DGHM	Carrier	Dirty 1
	<i>Mycobacterium terrae</i>			
<i>Mycobacterium terrae</i>	Griffiths et al. Journal of Hospital Infection (1998)	Suspension	Clean 1 and Dirty 1	

VIRUSES	ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
	Influenza A Virus (H1N1)	EN 14476	Suspension	Dirty 1
	Poliovirus Type 1	ASTM E-1053	Surface	Dirty 2
	Adenovirus Type 5			
	Hepatitis B Virus (HBV)			
	Herpes Simplex Virus Type 1			
	Human Immunodeficiency Virus (HIV)			
	Influenza A Virus (H1N1)			
	Poliovirus Type 1	DVV/RKI	Suspension	Clean 2 and Dirty 3
	Adenovirus Type 5			
	Murine Norovirus			
	Human Papillomavirus (using polyoma virus SV40 surrogate)			
	Vaccinia Virus			
Murine Norovirus	EN 16615	Surface with mechanical action	Clean 1	

FUNGI / YEAST	ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
	<i>Aspergillus brasiliensis</i>	EN 16615	Surface with mechanical action	Clean 1
	<i>Candida auris</i>	EN 14562	Carrier	
	<i>Fusarium solani</i>	EN 13624	Suspension	
	<i>Aspergillus flavus</i>			
<i>Candida albicans</i>	DGHM	Carrier	Dirty 1	

	ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
BACTERIA	<i>Staphylococcus aureus</i>	DGHM	Carrier	Dirty 1
	<i>Pseudomonas aeruginosa</i>			
	<i>Enterococcus hirae</i>			
	Carbapenem Resistant Enterobacteriaceae (CRE) <i>Klebsiella pneumoniae</i>	EN 14561	Carrier	Clean 1
	Vancomycin Resistant Enterococci (VRE) <i>Enterococcus faecium</i>			
	Multidrug-resistant <i>Acinetobacter baumannii</i> (MDRAB)			
	Extended Spectrum Beta-Lactamase <i>Klebsiella pneumoniae</i> (ESBL)	EN 13727	Suspension	
	<i>Neisseria gonorrhoeae</i>			
	<i>Gardnerella vaginalis</i>			
	<i>Streptococcus agalactiae</i>			
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)			Clean 1 and Dirty 1	

Clean/Dirty Conditions Key:

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

Dirty 1: 3g/l bovine albumin + 3g/l blood erythrocytes - **Dirty 2:** 5% blood serum - **Dirty 3:** 10% fetal calf serum