

Testing was performed in accordance with European Standard EN 14885:2022 and the latest regulatory efficacy requirements for disinfectants used in the medical area.

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
SPORICIDAL			
<i>Bacillus subtilis</i>	EN 17126	Suspension	Clean 1 & Dirty 1
<i>Bacillus cereus</i>			
<i>Clostridioides difficile</i>			

MYCOBACTERICIDAL/TUBERCULOCIDAL			
<i>Mycobacterium terrae</i>	EN 14348	Suspension	Clean 1 & Dirty 1
<i>Mycobacterium avium</i>			

VIRUCIDAL			
Poliovirus Type 1	EN 14476	Suspension	Clean 1 & Dirty 1
Adenovirus Type 5			
Murine Norovirus			

FUNGICIDAL/YEASTICIDAL			
<i>Candida albicans</i>	EN 16615	Surface with mechanical action	Clean 1 & Dirty 1
<i>Aspergillus brasiliensis</i>	EN 13624	Suspension	Clean 1 & Dirty 1
<i>Candida albicans</i>			

BACTERICIDAL			
<i>Staphylococcus aureus</i>	EN 16615	Surface with mechanical action	Clean 1 & Dirty 1
<i>Enterococcus hirae</i>			
<i>Pseudomonas aeruginosa</i>			
<i>Staphylococcus aureus</i>	EN 13727	Suspension	Clean 1 & Dirty 1
<i>Enterococcus hirae</i>			
<i>Pseudomonas aeruginosa</i>			



Additional testing

TEST METHOD
DNA/RNA
Polyacrylamide gel electrophoresis (PAGE)

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
PROTOZOA			
<i>Acanthamoeba castellanii</i> cysts	Bespoke Test	Suspension	Clean 1

SPORES			
<i>Clostridioides difficile</i>	prEN 17846	Surface with mechanical action	Clean 1 & Dirty 1
<i>Bacillus cereus</i>	EN 13704	Suspension	Dirty 1
<i>Bacillus subtilis</i> var <i>niger</i>	Babb JR, Bradely CR & Ayliffe GAJ (J. of Hosp. Inf. 1980 1:63-75)	Suspension	Clean 1 & Dirty 3

MYCOBACTERIA			
<i>Mycobacterium terrae</i>	EN 16615	Surface with mechanical action	Dirty 1
<i>Mycobacterium avium</i>			
<i>Mycobacterium terrae</i>	EN 14563	Carrier	Clean 1 & Dirty 2
<i>Mycobacterium avium</i>			
<i>Mycobacterium terrae</i>	DGHM	Carrier	Dirty 1
<i>Mycobacterium avium</i>			
<i>Mycobacterium terrae</i>	Griffiths et al. (J. of Hosp. Inf. 1998 38:183-92)	Suspension	Clean 1 & Dirty 4



Additional testing

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
VIRUSES			
Bovine Coronavirus	EN 16615	Surface with mechanical action	Dirty 1
Murine Norovirus			Clean 1 & Dirty 1
Adenovirus Type 5			Dirty 1
Human Papillomavirus (HPV) Type 16	Meyers et al (J Med Virol. 2020; 92: 1298–1302.)	Simulated-use Test	Dirty 2
Human Papillomavirus (HPV) Type 18			
Poliovirus Type 1	ASTM E-1053	Surface without mechanical action	Dirty 2
Adenovirus Type 5			
Feline Calicivirus			
Hepatitis B Virus (HBV)			
Herpes Simplex Virus (HSV) Type 1			
Human Immunodeficiency Virus (HIV)			
Influenza A Virus (H1N1)			
Parvovirus (Using Minute Virus of Mice (MVM) surrogate)	DVV/RKI	Suspension	Dirty 3
Poliovirus Type 1			Clean 2 & Dirty 3
Adenovirus Type 5			
Murine Norovirus			
Human Papillomavirus (HPV) (Using Polyomavirus SV40 surrogate)			
Vaccinia Virus			
Influenza A Virus (H1N1)	EN 14476	Suspension	Dirty 1



Additional testing

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
FUNGI/YEAST			
<i>Aspergillus brasiliensis</i>	EN 16615	Surface with mechanical action	Clean 1 & Dirty 1
<i>Candida albicans</i>	EN 13697	Surface without mechanical action	Clean 1
<i>Aspergillus brasiliensis</i>	EN 14562	Carrier	Clean 1
<i>Candida albicans</i>			Clean 1
<i>Candida auris</i>			Dirty 2
<i>Candida albicans</i>	AOAC Use-Dilution Method	Carrier	Dirty 2
<i>Candida albicans</i>	DGHM	Carrier	Dirty 1
<i>Fusarium solani</i>	EN 13624	Suspension	Clean 1
<i>Aspergillus sydowii</i>			

BACTERIA			
<i>Proteus vulgaris</i>	EN 16615	Surface with mechanical action	Dirty 1
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)			Clean 1
<i>Neisseria gonorrhoeae</i>			
<i>Gardnerella vaginalis</i>			
<i>Streptococcus agalactiae</i>			
<i>Streptococcus pyogenes</i>	EN 13697	Surface without mechanical action	Clean 1
<i>Staphylococcus aureus</i>			
<i>Enterococcus hirae</i>			
<i>Pseudomonas aeruginosa</i>			
<i>Escherichia coli</i>			

Additional testing

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
BACTERIA (continued)			
<i>Staphylococcus aureus</i>	EN 14561	Carrier	Clean 1
<i>Enterococcus hirae</i>			
<i>Pseudomonas aeruginosa</i>			
Carbapenem-resistant Enterobacteriaceae (CRE) <i>Klebsiella pneumoniae</i>			
Vancomycin-resistant Enterococci (VRE) <i>Enterococcus faecium</i>			Dirty 2
Multidrug-resistant <i>Acinetobacter baumannii</i> (MDRAB)			
Extended Spectrum Beta-Lactamase <i>Klebsiella pneumoniae</i> (ESBL)			
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	VAH 2015	Carrier & Suspension	Dirty 1
<i>Staphylococcus aureus</i>			
<i>Enterococcus hirae</i>			
<i>Pseudomonas aeruginosa</i>	EN 13727	Suspension	Dirty 1
<i>Staphylococcus capitis</i>			
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)			

Conditions Key:

Clean 1: 0.3 g/l Bovine albumin

Clean 2: Aqua bidest

Dirty 1: 3g/l Bovine albumin + 3ml/l Blood erythrocytes

Dirty 2: 5% Blood Serum

Dirty 3: 10% Blood Serum

Dirty 4: 1% Blood Serum