



MICROBIOLOGICAL EFFICACY SUMMARY



ESSENTIAL TEST DATA

Complies with European Standard EN 14885:2022 and the latest regulatory requirements for biocidal activity of high-level surface disinfectants applied with mechanical action (e.g., mopping).

A $\geq 5 \log_{10}$ reduction was achieved for bacteria, and a $\geq 4 \log_{10}$ reduction for viruses, fungi, yeasts, mycobacteria, and bacterial spores in the following tests. Additionally, the requirements of the 4-field tests EN 16615 and EN 17846 were met, with F2–F4 contamination levels being $< 50 \text{ CFU/cm}^2$.

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
SPORICIDAL			
<i>Bacillus subtilis</i>	EN 17126 (P2, S1)	Suspension	Clean 1
<i>Bacillus cereus</i>			
<i>Clostridioides difficile</i>			
<i>Clostridioides difficile</i>	EN 17846 (P2, S2)	Surface with mechanical action	Clean 1 & Dirty 1
MYCOBACTERICIDAL			
<i>Mycobacterium terrae</i>	EN 14348 (P2, S1)	Suspension	Clean 1
<i>Mycobacterium avium</i>			
VIRUCIDAL			
Poliovirus Type 1	EN 14476 (P2, S1)	Suspension	Clean 1 & Dirty 1
Adenovirus Type 5			
Murine norovirus			
FUNGICIDAL/YEASTICIDAL			
<i>Aspergillus brasiliensis</i>	EN 13624 (P2, S1)	Suspension	Clean 1
<i>Candida albicans</i>			Clean 1 & Dirty 1
<i>Candida albicans</i>	EN 16615 (P2, S2)	Surface with mechanical action	Clean 1
BACTERICIDAL			
<i>Pseudomonas aeruginosa</i>	EN 13727 (P2, S1)	Suspension	Clean 1 & Dirty 1
<i>Staphylococcus aureus</i>			



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BACTERICIDAL			
<i>Enterococcus hirae</i>	EN 13727 (P2, S1)	Suspension	Clean 1 & Dirty 1
<i>Pseudomonas aeruginosa</i>	EN 16615 (P2, S2)	Surface with mechanical action	Clean 1
<i>Staphylococcus aureus</i>			
<i>Enterococcus hirae</i>			

ADDITIONAL TEST DATA

Beyond essential testing, further studies have confirmed the product's effectiveness against key pathogens and demonstrated broader performance characteristics.

MICROORGANISMS

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
MYCOBACTERIA			
<i>Mycobacterium terrae</i>	EN 14563 (P2, S2)	Carrier	Clean 1
<i>Mycobacterium avium</i>			
VIRUSES			
Adenovirus Type 5	EN 17111 (P2, S2)	Carrier	Dirty 1
Murine norovirus			
Poliovirus Type 1	ASTM E-1053	Surface without mechanical action	Dirty 2
Adenovirus Type 5			
Herpes Simplex Virus (HSV) Type 1			
Human coronavirus (SARS-Cov-2)	EN 14476 (P2, S1)	Suspension	Dirty 2
FUNGI & YEASTS			
<i>Candida albicans</i>	EN 14562 (P2, S2)	Carrier	Clean 1
<i>Candidozyma auris</i> (Formerly <i>Candida auris</i>)			Dirty 2



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FUNGI & YEASTS			
<i>Aspergillus brasiliensis</i>	EN 16615 (P2, S2)	Surface with mechanical action	Clean 1
<i>Trichophyton interdigitale</i>			
<i>Trichophyton interdigitale</i>	EN 13624 (P2, S1)	Suspension	Clean 1
BACTERIA			
<i>Pseudomonas aeruginosa</i>	EN 14561 (P2, S2)	Carrier	Clean 1
<i>Staphylococcus aureus</i>			
<i>Enterococcus hirae</i>			
<i>Streptococcus pyogenes</i>			
Multidrug-resistant <i>Acinetobacter baumannii</i> (MDRAB)			
<i>Staphylococcus capitis</i>	EN 13727 (P2, S1)	Suspension	Dirty 1
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)			Clean 1
Carbapenem-resistant <i>Klebsiella pneumoniae</i> (CRE)			
Vancomycin-resistant <i>Enterococcus faecium</i> (VRE)			
Multidrug-resistant <i>Acinetobacter baumannii</i> (MDRAB)			

BIOFILM

ORGANISM	TEST METHOD	BIOFILM TYPE	SURFACE TYPE
<i>Pseudomonas aeruginosa</i>	MBEC assay (ASTM E2799-22)	Grown in moist conditions - aged for 72 hours	Polystyrene
<i>Staphylococcus aureus</i>			
<i>Staphylococcus aureus</i>	Modified CDC Biofilm Reactor	Dry (semi-hydrated) - aged for 12 days	Stainless steel & PVC



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KEY

Clean 1	0.3 g/l Bovine albumin	P2, S1	Phase 2, Step 1
Dirty 1	3g/l Bovine albumin + 3ml Blood erythrocytes	P2, S2	Phase 2, Step 2
Dirty 2	5% Blood Serum		