



MICROBIOLOGICAL EFFICACY SUMMARY



Chlorine dioxide solution prepared in **TANK 10 CLO2** vessel.

Testing was performed in accordance with European Standard EN 14885:2022 and the latest regulatory efficacy requirements.

Chlorine dioxide solution aged for **5 days** has also been tested for each organism type.

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
SPORICIDAL			
<i>Bacillus subtilis</i>	EN 17126	Suspension	Clean 1
<i>Bacillus cereus</i>			
<i>Clostridioides difficile</i>			Clean 1 & Dirty 1
MYCOBACTERICIDAL			
<i>Mycobacterium terrae</i>	EN 14348	Suspension	Clean 1 & Dirty 2
<i>Mycobacterium avium</i>			
VIRUCIDAL			
Poliovirus Type 1	EN 14476	Suspension	Clean 1 & Dirty 1
Adenovirus Type 5			
Murine Norovirus			
FUNGICIDAL			
<i>Candida albicans</i>	EN 16615	Surface with mechanical action	Clean 1 & Dirty 1
	EN 13624	Suspension	Clean 1, Dirty 1 & Dirty 2
<i>Aspergillus brasiliensis</i>			Clean 1
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	
<i>Enterococcus hirae</i>			
<i>Pseudomonas aeruginosa</i>			



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ADDITIONAL TESTING

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
SPORES			
<i>Clostridioides difficile</i>	prEN 17846	Surface with mechanical action	Clean 1
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>			
VIRUSES			
Adenovirus Type 5	EN 16615	Surface with mechanical action	Dirty 1
Murine Norovirus			
Bovine coronavirus			
Adenovirus Type 5	ASTM E1053	Surface	Dirty 2
Poliovirus Type 1			
Herpes Simplex Virus Type 1			
FUNGI/YEAST			
<i>Candida albicans</i>	VAH Method 14.2	Surface with mechanical action	Clean 1
	VAH Method 9	Suspension	Clean 1
<i>Aspergillus brasiliensis</i>	EN 16615	Surface with mechanical action	Clean 1 & Dirty 1
<i>Candida auris</i>			Dirty 1
<i>Candida auris</i>	EN 14562	Carrier	Dirty 2
<i>Trichophyton interdigitale</i>	EN 13624	Suspension	Clean 1
<i>Trichophyton rubrum</i>			
<i>Trichophyton mentagrophytes</i>			



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BACTERIA			
<i>Staphylococcus aureus</i>	VAH Method 14.2	Surface with mechanical action	Clean 1
<i>Enterococcus hirae</i>			
<i>Pseudomonas aeruginosa</i>			
<i>Staphylococcus aureus</i>	VAH Method 9	Suspension	Clean 1
<i>Enterococcus hirae</i>			
<i>Escherichia coli</i> K12			
<i>Proteus mirabilis</i>			
<i>Pseudomonas aeruginosa</i>			
<i>Streptococcus pyogenes</i>	EN 16615	Surface with mechanical action	Clean 1
<i>Pseudomonas aeruginosa</i>	EN 14561	Carrier	Clean 1
<i>Staphylococcus aureus</i>			Clean 1 & Dirty 2
<i>Enterococcus hirae</i>			
<i>Staphylococcus capitis</i>	EN 13727	Suspension	Dirty 1
<i>Escherichia coli</i>			Clean 1
<i>Enterococcus faecalis</i>			
<i>Enterococcus faecium</i>			
<i>Acinetobacter baumannii</i>			
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)			
Vancomycin-resistant Enterococci (VRE) <i>Enterococcus faecium</i>			
Carbapenem Resistant Enterobacteriaceae (CRE) <i>Klebsiella pneumoniae</i>			
Extended Spectrum Beta-Lactamase (ESBL) <i>Klebsiella pneumoniae</i>			
Multidrug-resistant <i>Acinetobacter baumannii</i> (MDRAB)			

CONDITIONS: Clean 1: 0.3 g/l Bovine albumin - Dirty 1: 3 g/l Bovine albumin + 3 ml/l sheep erythrocytes - Dirty 2: 5% Fetal bovine serum (FBS)



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