

ESSENTIAL TEST DATA

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
SPORICIDAL			
<i>Clostridioides difficile</i>	EN 17126 (P2, S1)	Suspension	Dirty 1
<i>Clostridium sporogenes</i>	EN 14561/AOAC 966.04	Carrier	Dirty 1
MYCOBACTERICIDAL/TUBERCULOCIDAL			
<i>Mycobacterium terrae</i>	EN 14348 (P2, S1)	Suspension	Clean 1 & Dirty 2
<i>Mycobacterium avium</i>			
<i>Mycobacterium terrae</i>	EN 14563 (P2, S2)	Carrier	Clean 1 & Dirty 1
<i>Mycobacterium avium</i>			
VIRUCIDAL			
Poliovirus Type 1	EN 14476 (P2, S1)	Suspension	Clean 1 & Dirty 2
Adenovirus Type 5			
Murine Norovirus			
Poliovirus Type 1	ASTM E1053	Surface without mechanical action	Dirty 1
Adenovirus Type 5			
Herpes Simplex Virus Type 1			
FUNGICIDAL/YEASTICIDAL			
<i>Aspergillus brasiliensis</i>	EN 13624 (P2, S1)	Suspension	Clean 1
<i>Candida albicans</i>			
<i>Aspergillus brasiliensis</i>	EN 14562 (P2, S2)	Carrier	Clean 1
<i>Candida albicans</i>			Clean 1 & Dirty 1
BACTERICIDAL			
<i>Pseudomonas aeruginosa</i>	EN 13727 (P2, S1)	Suspension	Dirty 2
<i>Staphylococcus aureus</i>			

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ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
BACTERICIDAL			
<i>Enterococcus hirae</i>	EN 13727 (P2, S1)	Suspension	Dirty 2
<i>Pseudomonas aeruginosa</i>	EN 14561 (P2, S2)	Carrier	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
VIRUSES			
Adenovirus Type 5	EN 17111 (P2, S2)	Carrier	Clean 1 & Dirty 2
Murine Norovirus			
Human Papillomavirus (HPV) (Using surrogate SV40)			
Feline Calicivirus	ASTM E1053	Surface without mechanical action	Dirty 1
Influenza A Virus (H1N1)			
Human Papillomavirus (HPV) (Using surrogate SV40)	DVV/RKI	Suspension	Clean 2 & Dirty 3
Poliovirus Type 1			
Adenovirus Type 5			
Vaccinia Virus			
Coronavirus (SARS-CoV-2)*	EN 14476 (P2, S1)	Suspension	Dirty 1

* A representative sample of Tristel chlorine dioxide chemistry has been tested following EN 14476 at a concentration of 20 parts per million (ppm). Tristel Duo OPH has a chlorine dioxide concentration greater than 20 ppm at the point of use.

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VIRUSES			
Influenza A (H1N1)	EN 14476 (P2, S1)	Suspension	Dirty 2
FUNGI & YEASTS			
<i>Candidozyma auris</i> (Formerly <i>Candida auris</i>)	EN 14562 (P2, S2)	Carrier	Dirty 1
<i>Candida albicans</i>	AOAC Use-Dilution Method	Carrier	Dirty 1
BACTERIA			
Carbapenem-resistant <i>Klebsiella pneumoniae</i> (CRE)	EN 14561 (P2, S2)	Carrier	Clean 1
Vancomycin-resistant <i>Enterococcus faecium</i> (VRE)			Dirty 1
Multidrug-resistant <i>Acinetobacter baumannii</i> (MDRAB)			
Extended Spectrum Beta-Lactamase (ESBL) producing <i>Klebsiella pneumoniae</i>			
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)			

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>	CDC Biofilm Reactor (ASTM E2871-21)		Stainless steel & PVC
<i>Staphylococcus aureus</i>	Modified CDC Biofilm Reactor	Dry (semi-hydrated) - aged for 12 days	Stainless steel & PVC

KEY

Clean 1	0.3g/l Bovine albumin	Dirty 3	10% Blood Serum
Clean 2	Aqua bidest	P2, S1	Phase 2, Step 1
Dirty 1	5% Blood Serum	P2, S2	Phase 2, Step 2
Dirty 2	3g/l Bovine albumin + 3ml Blood erythrocytes		