Tristel Fuse™ for Stella

MICROBIOLOGICAL EFFICACY SUMMARY

5 min

ESSENTIAL TEST DATA

A ≥5 $\log_{10}$ reduction was achieved for bacteria, and a ≥4 $\log_{10}$ reduction for viruses, fungi, yeasts, mycobacteria, and bacterial spores in the following tests.

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
SPORICIDAL			
Bacillus subtilis	EN 17126 (P2, S1)	Suspension	Clean 1
Bacillus cereus			
MYCOBACTERICIDAL			
Mycobacterium terrae	EN 14348 (P2, S1)	Suspension	Clean 1 and Dirty 2
Mycobacterium avium			Clean 1
Mycobacterium terrae	EN 14563 (P2, S2)	Carrier	Clean 1, Dirty 1 and Dirty 2
Mycobacterium avium			Clean 1 and Dirty 1
VIRUCIDAL			
Poliovirus Type 1	EN 14476 (P2, S1)	Suspension	Clean 1 and Dirty 1
Adenovirus Type 5			
Murine norovirus			
Adenovirus Type 5	EN 17111 (P2, S2)	Carrier	Clean 1 and Dirty 1
Murine norovirus			
FUNGICIDAL/YEASTICIDAL			
Aspergillus brasiliensis	EN 13624 (P2, S1)	Suspension	Clean 1
Candida albicans			Clean 1 and Dirty 1
Candida albicans	EN 14562 (P2, S2)	Carrier	Clean 1 and Dirty 2
BACTERICIDAL			
Pseudomonas aeruginosa	EN 13727 (P2, S1)	Suspension	Clean 1 and Dirty 2
Staphylococcus aureus			
Enterococcus hirae			

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
BACTERICIDAL			
Pseudomonas aeruginosa	EN 14561 (P2, S2)	Carrier	Clean 1, Dirty 1 and Dirty 2
Staphylococcus aureus			
Enterococcus hirae			

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
BACTERIAL SPORES			
Clostridium sporogenes	EN 14561/AOAC 966.04	Carrier	Dirty 2
Clostridium sporogenes	EN 14561 (P2, S2)	Carrier	Dirty 2
Bacillus subtilis			
VIRUSES			
Polyomavirus SV40	EN 17111 (P2, S2)	Carrier	Clean 1 and Dirty 1
Bovine Coronavirus			Dirty 1
Poliovirus Type 1	ASTM E-1053	Surface without mechanical action	Dirty 2
Herpes Simplex Virus (HSV) Type 1			
Poliovirus Type 1	DVV/RKI	Suspension	Clean 2 & Dirty 3
Adenovirus Type 5			
Murine norovirus			
Human Papillomavirus (HPV) (using Polyomavirus SV40 surrogate)			
Vaccinia Virus			

MICROBIOLOGICAL EFFICACY SUMMARY

ORGANISM	TEST METHOD	TEST TYPE	CONDITIONS
FUNGI & YEASTS			
Trichophyton interdigitale	AOAC 955.15	Carrier	Dirty 2
Trichophyton interdigitale	AOAC 955.17	Suspension	Dirty 2
BACTERIA			
Klebsiella pneumoniae	EN 14561 (P2, S2)	Carrier	Clean 1
Vancomycin-resistant *Enterococcus faecium* (VRE)			
Escherichia coli	EN 13727 (P2, S1)	Suspension	Dirty 1

BIOFILM

ORGANISM	TEST METHOD	BIOFILM TYPE	SURFACE TYPE
Pseudomonas aeruginosa	MBEC assay (ASTM E2799-22)	Grown in moist conditions - aged for 72 hours	Polystyrene
Staphylococcus aureus			

KEY

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