

Tristel DuoTM

for Ophthalmology

Microbiological Efficacy Summary

	Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time	
Sporicidal	EN 13704 Babb JR, Bradely CR & Ayliffe GAJ (J. of Hosp. Inf. 1980 1:63-75)	Suspension	<i>Bacillus cereus</i>	> 3 log	> 3 log	MGS	Clean 1	30 sec.	
			<i>Clostridium difficile</i>	> 3 log	> 5.19 log	HIRL	Clean 1		
			<i>Clostridium difficile</i>	> 3 log	> 5.19 log	HIRL	Dirty 1		
	Babb JR, Bradely CR & Ayliffe GAJ (J. of Hosp. Inf. 1980 1:63-75)	Suspension	<i>Bacillus subtilis var niger</i>	> 3 log	> 6.72 log	HIRL	Clean 1		
			<i>Bacillus subtilis var niger</i>	> 3 log	> 6.66 log	HIRL	Dirty 1		
		Suspension	<i>Bacillus subtilis</i>	> 4 log	> 4.58 log	IRM	N/A		
			<i>Bacillus cereus</i>	> 4 log	> 4.65 log	IRM	N/A		
	EN 14347		<i>Bacillus subtilis</i>	> 4 log	> 4.18 log	MGS	N/A		
			<i>Bacillus cereus</i>	> 4 log	> 4.68 log	MGS	N/A		
Mycobactericidal	EN 14563	Carrier	<i>Mycobacterium avium</i>	> 4 log	> 5.2 log	Biotech Germande	Clean 1	30 sec.	
			<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i>)	> 4 log	> 4.9 log	Biotech Germande	Clean 1		
	EN 14348	Suspension	<i>Mycobacterium avium</i>	> 4 log	> 6.63 log	MGS	Clean 1		
			<i>Mycobacterium avium</i>	> 4 log	> 7.76 log	Hygiene Nord GMBH	Dirty 1		
	DGHM Methodology	Carrier	<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i>)	> 4 log	> 7.23 log	Hygiene Nord GMBH	Dirty 1		
			<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i>)	> 5 log	> 5.82 log	HIRL	Clean 1		
	Griffiths et al. Journal of Hospital Infection (1998)	Suspension	<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i>)	> 5 log	> 5.69 log	HIRL	Dirty 1		
			<i>Mycobacterium terrae</i> (Surrogate for <i>Mycobacterium tuberculosis</i>)	> 5 log	> 5.69 log	HIRL	Dirty 1		
Virucidal	EN 14476	Suspension	Poliovirus T1	> 4 log	4.26 log	BluScientific	Clean 2	30 sec.	
			Adenovirus T5	> 4 log	4.59 log	BluScientific	Clean 2		
			Murine Norovirus	> 4 log	4.17 log	Eurofins	Clean 1		
			Influenza (H1N1)	> 4 log	4.50 log	Eurofins	Dirty 1		
	DVV and RKI	Suspension	Poliovirus T1	> 4 log	> 4.75 log	Mikrolab GMBH	Clean 3		
				> 4 log	> 4.75 log	Mikrolab GMBH	Dirty 2		
			Adenovirus T5	> 4 log	> 6.25 log	Mikrolab GMBH	Clean 3		
				> 4 log	> 6.19 log	Mikrolab GMBH	Dirty 2		
			Polyoma Virus SV40 (HPV Surrogate)	> 4 log	> 5.50 log	Mikrolab GMBH	Clean 3		
				> 4 log	> 5.32 log	Mikrolab GMBH	Dirty 2		
			Vaccinia Virus	> 4 log	> 5.00 log	Mikrolab GMBH	Clean 3		
				> 4 log	> 5.38 log	Mikrolab GMBH	Dirty 2		
Fungicidal/yeasticidal	EN 14562	Carrier	<i>Candida albicans</i>	> 4 log	> 4.4 log	Biotech Germande	Clean 1	30 sec.	
			<i>Aspergillus brasiliensis</i>	> 4 log	> 4.36 log	Hygiene Nord GMBH	Clean 1		
			<i>Candida albicans</i>	> 4 log	> 4.08 log	Hygiene Nord GMBH	Clean 1		
	EN 13624	Suspension	<i>Candida albicans</i>	> 4 log	> 4.45 log	MGS	Clean 1		
				> 4 log	> 4.51 log	Hygiene Nord GMBH	Clean 1		
			<i>Aspergillus brasiliensis</i>	> 4 log	> 4.23 log	Hygiene Nord GMBH	Clean 1		
				> 4 log	> 4.33 log	MGS	Clean 1		
			<i>Fusarium solani</i>	> 4 log	> 4.0 log	Huddersfield	Clean 1		
			<i>Aspergillus flavus</i>	> 4 log	> 4.0 log	Huddersfield	Clean 1		
	DGHM Methodology	Carrier	<i>Candida albicans</i>	> 4 log	> 6.47 log	Hygiene Nord GMBH	Dirty 1		

	Test norm	Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time
Bactericidal	EN 14561	Carrier	<i>Staphylococcus aureus</i>	>5 log	>5.8 log	Biotech Germande	Clean 1	30 sec.
			<i>Pseudomonas aeruginosa</i>	>5 log	>5.5 log	Biotech Germande	Clean 1	
			<i>Enterococcus hirae</i>	>5 log	>5.6 log	Biotech Germande	Clean 1	
			<i>Klebsiella pneumoniae</i> Carbapenemase (KPC) Enterobacteriaceae	>5 log	>5.57 log	MGS	Clean 1	
			<i>Vancomycin-resistant</i> <i>Enterococcus faecium</i>	>5 log	>5.65 log	MGS	Clean 1	
EN 13727		Suspension	<i>Staphylococcus aureus</i>	>5 log	>6.49 log	HIRL	Clean 1	30 sec.
			<i>Pseudomonas aeruginosa</i>	>5 log	>6.49 log	HIRL	Dirty 1	
			<i>Enterococcus hirae</i>	>5 log	>6.65 log	HIRL	Clean 1	
			<i>Staphylococcus aureus</i>	>5 log	>6.65 log	HIRL	Dirty 1	
			<i>Pseudomonas aeruginosa</i>	>5 log	>5.33 log	MGS	Clean 1	
			<i>Enterococcus hirae</i>	>5 log	>5.36 log	MGS	Clean 1	
			<i>Staphylococcus aureus</i>	>5 log	>5.34 log	MGS	Clean 1	
			<i>Pseudomonas aeruginosa</i>	>5 log	>5.34 log	MGS	Dirty 1	
			<i>Enterococcus hirae</i>	>5 log	>5.47 log	MGS	Clean 1	
			<i>Staphylococcus aureus</i>	>5 log	>5.47 log	MGS	Dirty 1	
			<i>Pseudomonas aeruginosa</i>	>5 log	>5.43 log	MGS	Clean 1	
			<i>Enterococcus hirae</i>	>5 log	>5.43 log	MGS	Dirty 1	
			<i>Staphylococcus aureus</i>	>5 log	>5.18 log	Hygiene Nord GMBH	Clean 1	
			<i>Pseudomonas aeruginosa</i>	>5 log	>5.54 log	Hygiene Nord GMBH	Clean 1	
			<i>Enterococcus hirae</i>	>5 log	>5.27 log	Hygiene Nord GMBH	Clean 1	
			<i>Methicillin-resistant</i> <i>Staphylococcus aureus</i> (MRSA)	>5 log	>5.34 log	MGS	Clean 1	
			<i>Neisseria gonorrhoeae</i>	>5 log	>5.34 log	MGS	Dirty 1	
			<i>Gardnerella vaginalis</i>	>5 log	>5.37 log	Huddersfield	Clean 1	
			<i>Streptococcus agalactiae</i>	>5 log	>5.39 log	Huddersfield	Clean 1	
DGHM Methodology		Carrier	<i>Pseudomonas aeruginosa</i>	>5 log	>7.23 log	Hygiene Nord GMBH	Dirty 1	30 sec.
			<i>Staphylococcus aureus</i>	>5 log	>7.30 log	Hygiene Nord GMBH	Dirty 1	
			<i>Enterococcus hirae</i>	>5 log	>7.52 log	Hygiene Nord GMBH	Dirty 1	

Bespoke Testing

Test type	Organism	Log reduction required	Log reduction achieved	Laboratory	Clean or dirty	Contact time
Suspension	<i>Acanthamoeba castellanii</i> cysts (one of the causative organisms of Acanthamoeba keratitis)	N/A	>3.0 log	BluTest	Clean 1	30 sec.

Clean/Dirty Conditions Key

Clean 1: 0.3 g/L bovine albumin

Clean 2: 0.6 g/L foetal bovine serum + 0.03% bovine serum albumin

Clean 3: Aqua bidest

Dirty 1: 3.0 g/L bovine albumin + 3 ml/l sheep erythrocytes

Dirty 2: 10% Fetal Calf Serum



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