

MICROBIOLOGICAL EFFICACY SUMMARY

Tristel DUO is an effective chlorine dioxide foam which combines cleaning with disinfection. All antimicrobial test data have been reviewed and registered by the United States Environmental Protection Agency (US EPA).

ORGANISM	TEST METHOD	TEST TYPE	RESULTS
MYCOBACTERIA (1 MINUTE CONTACT TIME)			
<i>Mycobacterium bovis</i> (EPA approved surrogate of <i>Mycobacterium tuberculosis</i>)	AOAC 965.12	Carrier	No positive culture tubes demonstrating a total kill
FUNGI (1 MINUTE CONTACT TIME)			
<i>Trichophyton interdigitale</i>	AOAC 955.17	Suspension	No positive culture tubes demonstrating a total kill
<i>Candida albicans</i>	AOAC Use Dilution Method	Carrier	
VIRUSES (30 SECONDS CONTACT TIME)			
Poliovirus Type 1	ASTM E1053	Surface	≥4 log ₁₀ reduction with no residual virus detected
Herpes Simplex Virus (HSV) Type 1			
Adenovirus Type 5			
Human Immunodeficiency Virus (HIV) Type 1			
Feline Calicivirus (Surrogate for Human Norovirus)			
Hepatitis B Virus (HBV) using Duck Hepatitis B Virus surrogate			
2009-H1N1 Influenza A Virus			

CONDITIONS:

5% Fetal bovine serum (FBS)

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ORGANISM	TEST METHOD	TEST TYPE	RESULTS
BACTERIA (2 MINUTE CONTACT TIME)			
<i>Staphylococcus aureus</i>	AOAC 955.15	Carrier	No positive culture tubes demonstrating a total kill
<i>Pseudomonas aeruginosa</i>	AOAC 964.02		
<i>Salmonella enterica</i>	AOAC 955.14		
<i>Escherichia coli</i> O157:H7	AOAC Use Dilution Method		
Extended Spectrum Beta-Lactamase <i>Escherichia coli</i> (ESBL)			
<i>Neisseria gonorrhoeae</i>			
<i>Streptococcus agalactiae</i>			
<i>Enterobacter cloacae</i>			
<i>Staphylococcus epidermidis</i>			
<i>Serratia marcescens</i>			
<i>Burkholderia cepacia</i>			
DRUG RESISTANT BACTERIA (2 MINUTE CONTACT TIME)			
Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA)	AOAC 955.15	Carrier	No positive culture tubes demonstrating a total kill
Carbapenem-resistant <i>Klebsiella pneumoniae</i> (CRE)	AOAC Use Dilution Method		
MULTI-DRUG RESISTANT (MDR) BACTERIA (2 MINUTE CONTACT TIME)			
Multi-Drug Resistant <i>Streptococcus pneumoniae</i>	AOAC Use Dilution Method	Carrier	No positive culture tubes demonstrating a total kill
Multi-Drug Resistant <i>Acinetobacter baumannii</i> (MDRAB)			

CONDITIONS:
5% Fetal bovine serum (FBS)

ADDITIONAL TESTING

TEST METHOD	
DNA / RNA	Polyacrylamide gel electrophoresis (PAGE)