Efficacy of RAPICIDE® High Level Disinfectant, RAPICIDE® PA High Level Disinfectant and RAPICIDE® OPA/28 High Level Disinfectant for Endoscope Reprocessing

As part of Cantel Medivators' extensive development to deliver fast and effective High-Level Disinfection solutions, rigorous testing has been conducted to evaluate the efficacy and microbiological consideration of RAPICIDE HLD, RAPICIDE PA HLD and RAPICIDE OPA/28 HLD. All tests demonstrated sporicidal, bactericidal, fungicidal, tuberculocidal, and virucidal efficacy.

Tests	Organism	Results		
		RAPICIDE® HLD	**RAPICIDE® PA HLD**	**RAPICIDE® OPA/28 HLD**
		5 minutes at 35°C at MRC concentration equal to 1.5% Glutaraldehyde	**5 minutes at 30°C at MRC concentration equal to 850ppm PAA**	**5 minutes at 25°C at MRC concentration equal to 0.35% OPA**
Sporicidal	*Clostridium sporogenes*	Complete Inactivation in 5 hours	Complete Inactivation in 5 hours	Complete Inactivation in 32 hours
Sporicidal	*Bacillus subtilis*	Complete Inactivation in 5 hours	Complete Inactivation in 5 hours	Complete Inactivation in 32 hours
Tuberculocidal	*Mycobacterium bovis* (var. *BCG)*	>6 log Reduction	>6 log Reduction	>6 log Reduction
Virucidal	Poliovirus	Complete Inactivation	Complete Inactivation	Complete Inactivation
Virucidal	Adenovirus	Complete Inactivation	> 6 log Reduction at 20°C	Equivalent Efficacy to Herpes Simplex Virus
Virucidal	Herpes Simplex Virus	Complete Inactivation	Complete Inactivation	Complete Inactivation
Fungicidal	*Candida albicans*	>6 log Reduction	Equivalent Efficacy to *Trichophyton mentagrophytes*	
Fungicidal	*Aspergillus niger*	>6 log Reduction		
Fungicidal	*Trichophyton mentagrophytes*	>6 log Reduction	>6 log Reduction	>6 log Reduction
Bactericidal	*Pseudomonas aeruginosa*	>6 log Reduction	>6 log Reduction	>6 log Reduction
Bactericidal	*Staphylococcus aureus*	>6 log Reduction	>6 log Reduction	>6 log Reduction
Bactericidal	*Salmonella enterica*	>6 log Reduction	>6 log Reduction	>6 log Reduction
Simulated Use (no pre or post rinse)	*Mycobacterium terrae*	>6 log Reduction	>6 log Reduction	>6 log Reduction
In-Use	GI Tract Normal Flora	Total Kill	Total Kill	Total Kill

Notes : 1) Inactivation
- Implies reduced to state of non-living for viruses (which has no formal category as either living or non-living)
- Implies rendered harmless for spores

2) MRC
- Minimum Recommended Concentration

The Cantel Medivators family of high-level disinfectants is also effective against CRE, VRE and MRSA. The germicides have effected a >99.9999% or >6.04-log reduction in the number of CRE in 1 minute at the following conditions.

Tests	Organism	Results		
		RAPICIDE® HLD	**RAPICIDE® PA HLD**	**RAPICIDE® OPA/28 HLD**
		1 minute at 35°C at nominal concentration equal to 2.5% Glutaraldehyde	**1 minute at 30°C at nominal concentration equal to 1300ppm PAA**	**1 minute at 25°C at nominal concentration equal to 0.575% OPA**
Bactericidal	Carbapenem-resistant Enterobacteriaceae (CRE)	>6 log Reduction	>6 log Reduction	>6 log Reduction
Bactericidal	Vancomycin-resistant *Enterococcus* (VRE)	RAPICIDE PA HLD and RAPICIDE OPA/28 HLD are more suited for such application	>5.6 log reduction	>6.49 log reduction ***5 Minutes at 20°C**
Bactericidal	Methicillin-resistant *Staphylococcus aureus* (MRSA)		>5.7 log Reduction	>6.74 log reduction ***5 Minutes at 20°C**

Conclusion

To meet the needs of healthcare facilities, Cantel Medivators offers a variety of fast and cost-effective high-level disinfectants that provide superior cleaning with the speed and compatibility you have come to recognize from Medivators.

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