

Commonly Used Disinfectants at MIT

Disinfectant Category/Brand	Inactivation Efficacy and contact time (minutes)					Potential Application				Characteristics		
	Bactericidal	Virucidal	Fungicidal	Tuberculocidal	Bacterial sporicidal	Hard surfaces	Human material	Stainless steel	Liquid for disposal	Leaves Residue	Organic matter inactivates	Other
Quaternary Ammonium Compounds (Quats)												
Quatricide TB	3	10	10	5		+	+	+			+	
Quatricide PV	10	10	10			+	+	+			+	
Lysol I.C. spray	10	10	10	10		+	+	+		+	+	
Lysol professional spray	10	10	10	10		+	+	+		+	+	
Lysol I.C. Quat	10	10	10			+	+	+	+		+	
Sklar disinfectant	2	2	2	2		+	+	+			+	
DisCide Ultra	1	1	1	1		+	+	+			+	Isopropanol/quat formulation
Chlorine Compounds												
10% Clorox Germicidal bleach	10	10	10	10	10	+	+	*	+		+	*Corrodes metal - requires sterile water or 70% ethanol rinse if used on stainless steel
Bleach-Rite Disinfecting Spray	1	1	1	2	5	+	+	*			+	*Corrodes metal - requires sterile water or 70% ethanol rinse if used on stainless steel
Iodophors												
1-3% Wescodyne	10	10	10	10		+	+				+	Poor residual activity
Phenolic Compounds												
Sporicidin	10	5	10	10		+	+	+		+		
Alcohols												Flammable
70% Ethyl & Isopropyl	+		+	10*				+			+	*Soak or reapplication for tuberculocidal activity
Aldehydes												
Clidox	5	5	5	5	300	+	+	+		+		Requires special PPE, sporicidal at >10hr
Peroxide Compounds												
PREempt RTU (Accel TB)	1	1	10	5		+	+	+			+	
PeridoxRTU	2	2	1	5	3	+	+	+			+	Requires special PPE

References:
 The information on this disinfectant table was compiled from the individual product sheets and the references listed below.
 Block S. Disinfection, Sterilization, and Preservation, 4th Ed. Philadelphia: Lea and Febiger, 1991
 McDonnell G. Antisepsis, Disinfection, and Sterilization: Types, Action and Resistance. Washington, DC: ASM Press, 2007
 Biosafety in Microbiological and Biomedical Laboratories, CDC/NIH, 5th Ed. U.S. Department of Health and Human Services. Washington, DC: 2009
 U.S. Department of Health, Education, and Welfare. NIH Laboratory Safety Monograph: A Supplement to the NIH Guidelines for Recombinant DNA Research. National Institutes of Health, 1978.