Summary of Practical Laboratory Decontaminants

Chemical Decontaminants	Concentrations	Contact Time		Agents Inactivated [3]					Characteristics [4]										Potential Uses [5]										Common Trade Names
	Active Ingredient Concentration	Minutes required to inactivate bacterial spores	Minutes required to inactive lipid viruses	Vegetative Bacteria	Lipid Virus	Non-lipid Virus	Bacterial Spores	Slow Virus	Effective Shelf life > 1 week	Corrosive	Flammable	Explosion Potential	Residue	Inactivate by organic matter	Microscope & camera lens compatible	Electronics compatible Skin irritant	Eye irritant	Respiratory irritant	Toxic	Work surfaces	Dirty Glassware	Liquids for Discard to Sewer	Portable equipment surface decon	Portable equipment penetrating decon	Stationary equipment surface decon	Stationary equipment penetrating decon	Lenses and electronic instruments	Large are decon	Air handling systems	Books and papers	
Chlorine Compounds	5250 ppm	30	10	XX	XX	XX	XX	X	No	Y			Y	Y			Y	Y	Y	U	U	U	U		U					Bleach
Iodophor	75-750 ppm	30	10	XX	XX	XX	XX	X	Y	Y			Y	Y			Y		Y	U			U		U					Wescodyne, Biocide
Formaldehyde	1-8%	30	10	XX	XX	XX	XX	-	Y				Y				Y	Y	Y						U					Formalin
Ethyl Alcohol	85%	N.E.	10	XX	X	X	-	-	Y		Y						Y		Y				U		U					
Isopropyl Alcohol	70%	N.E.	10	XX	X	X	-	-	Y		Y						Y		Y				U		U					
Phenolic compounds	2%	N.E.	10	XX	XX	X	-	-	Y	Y			Y	FT			Y		Y	U			U		U					Staphene, Amphyl
Quaternary ammonium compounds	2%	N.E.	10	X	XX	-	-	-	Y					Y	Y		Y		Y				U		U					Megasol
Hydrogen Peroxide	3-6%	30	10	XX	XX	FT	X	FT	Y								Y		Y				U	U	U	U	FT	FT	FT	FT	Liquid or Vapor
Glutaraldeyde	0.02	30	10	XX	XX	XX	XX	-	Y				Y	FT	Y		Y	Y	Y				U	U	U	U					Cidex, Procide, Metricide
Peracetic Acid	0.02	30	10	XX	XX	XX	XX	FT	Y								Y	Y	Y				U		U					
Ethylene Oxide[1]	45 gram/liter	60	60	XX	XX	XX	XX	FT	N/A		Y	Y	Y		Y	Y	Y	Y	Y					U			U			U	
Paraformaldehyde[2]	3 gram/ cu.ft	60	60	XX	XX	XX	XX	-	N/A		Y	Y			Y	Y	Y	Y	Y							U	U	U	U		

N.E.=NOT EFFECTIVE

FT=REQUIRES FURTHER TESTING

N.A.=NOT APPLICABLE

1. REQUIRES TEMPERATURES OF 37^{0}F AND 30% RELATIVE HUMIDITY

2. REQUIRES TEMPERATURES OF 23^{0}C AND > 60% RELATIVE HUMIDITY

3. XX=GOOD
X=FAIR TO GOOD DEPENDING

4. Y=HAS INDICATED CHARACTERISTICS. SEE MSDS

5. U=POTENTIAL USE

6. REFER TO SEWER DISHCHARGE LIMITS ON OUR WEBSITE, UNDER WASTE.