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Policy & Procedure Manual		
Section: Laboratory Safety Manual	Subject Title: Laboratory Disinfectants	
Issued by: LABORATORY MANAGER	Original Date: April 20, 2001	
Approved by: Laboratory Director	Revision Date: October 22, 2003	

Policy:

Biological hazards are present in clinical laboratories. The risk of exposure and subsequent infection by these agents can be significantly reduced through the use of specific protocols for decontamination/cleaning/disinfection of each piece of equipment after spills, before servicing, and at the end of each shift.

Purpose:

The principle is to clean and disinfect. Some compounds clean only, some disinfect only and some do both.

Virox is a new cleaner and disinfectant recommended by MSH that may be used for most disinfecting purposes. It is non-corrosive and non-irritating. It comes as a liquid and in a disposable wipe format (user friendly).

Responsibility:

Management and employees

Key Elements:

- Application
- Recommended Product(s)
- Ordering Information
- Preparation, Procedure & Precautions

Related Documents:

<u>LABORATORY SAFETY</u>	MI\LS\02\v01
GOOD LABORATORY PRACTICE - SUMMARY	MI\LS\05\v01
BIOLOGICAL SPILL CONTROL	MI\LS\27\v01

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Procedure:

Application	Recommended Product(s)	Ordering Information	Preparation, Procedure & Precautions
Benches Biologic al safety cabinets	Virox 5 Wipes RTU	Ready to use dispenser system Virox 5 Wipes RTU (6" x 6.25") 160 / pail. Vendor code 50338 Hospital #701129	Wipe surfaces. Allow to dry.
Centrifuges, metal surfaces, Autoloop Microscopes	Virox 5 RTU	Ready to use spray bottles Virox 5 Ready to use (RTU). Vendor code 50309	Spray surfaces. Wipe dry.
Telephone and keyboards / keyboard covers			
Water baths	Benzalkonium chloride 10%)	Media Room	Dilute 10mL in 4L of water. Clean and descale water bath. Disinfect with wipes. Fill with deionized water. Clean and disinfect a minimum of once a month.
Pipettes	Alcotab Phosphate content 4%	VWR	Add 2 tablets to the pipette washer. Mix and dissolve. Soak for 1 hr. Rinse with deionized water.
Test Tube Racks	Divermax M9 Machine Dish Powder	Stores	Autoclaved if contaminated and then washed in dishwasher
Floors	Hydrox	Housekeeping orders from Stores - MSH - UHN	Hydorx is the hospital approved cleaner and disinfectant for low-risk areas.

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Application	Recommended	Ordering Information	Preparation, Procedure &
	Product(s)	_	Precautions
Spilled (wet) or dried biological material	Hypochlorite 1%	Note: Full strength sodium hypochlorite (Javax) is 5%, 50,000 mg/L free available chlorine.	Dilute full strength sodium hypochlorite 1:5 Make up fresh daily OR Dilution is stable 1 month if stored in a dark bottle.
		Other forms of hypochlorite (e.g., Haztabs, stabilized solutions) are acceptabel if they give the same amount of free available chlorine.	Refer to <u>BIOLOGICAL</u> <u>SPILL CONTROL</u> for procedure
			Hypochlorite is inactivated by organic matter. Remove as much blood / protein matter as possible before decontamination or use a concentration of disinfectant higher than 1%.
BacT/ALERT Cell Decontamination after Bottle Breakage	Hypochlorite 1%		 Disable cell Insert absorbent material, such as gauze, into the cell to remove any remaining fluid Use caution around LED at bottom of cell Wipe cell with gauze soaked in Hypochlorite 1% Let soaked gauze sit in cell for 15-30 minutes Remove gauze Wipe cell with gauze soaked in distilled water Let cell air dry Calibrate cell Enable the cell if it passes calibration

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Application	Recommended	Ordering Information	Preparation, Procedure &
	Product(s)		Precautions
Broken Tube(s) in Centrifuge	Bactosat with	Ready to use spray bottles Virox 5 Ready to use (RTU). Vendor code 50309	 Turn off centrifuge If in sealed safety buckets, go to step 7;if in unsealed cups, inform others in vicinity and do not open the centrifuge for 30 minutes to allow aerosols to disperse or settle Slowly open centrifuge lid, remove all broken tubes, buckets, rotors, etc. to a basin of disinfectant which is noncorrosive; let stand for time recommended for selected disinfectant. Alternatively, these items may be autoclaved Place any unbroken capped specimens in disinfectant for 60 minutes and then remove, rinse, and process Wipe down the bowl of the centrifuge twice with disinfectant and rinse with water; dry Dispose of wipe-down cloths as infectious Remove sealed bucket to biological safety cabinet If any tubes are broken, leave in bucket, replace lid of bucket loosely and autoclave entire contents or place in disinfectant (see steps 3 & 4)
	Triclosan Betadine Providone iodine 7.5%	Stores	
	Alcohol-based antimicrobial hand rinse	Stores-various manufacturers	Use in areas where there is no hand-washing sink.