University of Ottawa Autoclave Procedures

LABORATORIES - ROLES & RESPONSIBILITIES	
Autoclave Facility	
Location:	Service Hours:
Faculty/Department:	
Building/Room:	
Items for Autoclaving	
CAN - Cultures & stocks.	- Materials containing solvents, volatile or
- Culture dishes & related devices.	corrosive chemicals.
- Discarded live & attenuated vaccines.	- Material contaminated with chemotherapeutic
- Contaminated solid items. (Petri dishes, Eppendorf tips, pipettes, gloves, paper towel.)	agents. - Radioactive material.
- Items for sterilization such as glassware, media, water, equipment.	
Packaging	
- Use only approved autoclave bags.	
- Containers must be heat resistant.	
- Do not overfill autoclave bags or containers. (Do not fill beyond 75% of holding capacity.)	
- Do not compress material – sufficient space is required to ensure steam penetration.	
- Dry material should be separated from liquid material.	
- If outside bag is contaminated, apply a second autoclave bag.	
Transport & Labeling	
- Surface decontaminate prior to transport.	- All material to be autoclaved must be labeled with a complete uOttawa hazardous waste
- Use secondary containers.	label.
- Use a cart with guard rails.	
- Flasks must be capped with at least aluminum foil.	
- Use a direct but not heavily populated route.	
- Bags should be closed for transport.	
Cycle Instructions	Disposal
- Instructions about type of cycle the user wishes to run must accompany all materials. For example:	- Ensure your waste was autoclaved to specifications. Autoclaved waste will have the biohazard symbol defaced, an 'Autoclaved Biomedical Waste: Non-Hazardous' sticker affixed, as well as heat sensitive tape.
	 Place bag inside a black garbage bag, close & dispose in the regular garbage.
Training Requirements	For more information
All lab personnel must	- Email: <u>bio.safety@uottawa.ca</u>
- Read the 'Guidelines to the Safe Use of Autoclaves'.	- Phone: 613-562-5800 ext. 3153/8081
- Complete the Autoclave Safety Training.	

AUTOCLAVE OPERATORS - ROLES & RESPONSIBILITIES	
Autoclave Facility/Owner	
Location:	Service Hours:
PPE:	
Loading	Operation
- Ensure material is acceptable for autoclaving.	- Ensure autoclave is operating properly before commencing cycle.
- Separate similar loads	- Ensure cycle is appropriate for the load.
	- Check cycle log recorder to ensure autoclave
- Use secondary containers.	attains desired temperature; pressure; and duration.
- Load material to ensure steam penetration.	
- Ensure all containers & bags are well vented.	
- Add 250ml of water when necessary.	
Unloading	Disposal
- Wait until chamber pressure gauge reaches zero before opening the door.	- Alloy containers to cool off and move to pick- up site (draft free area).
- Open door slightly to allow any remaining steam to dissipate (protect yourself from the steam).	 Deface biohazard symbol & affix a 'Autoclaved Biomedical Waste: Non- Hazardous' sticker.
- Remove waste safely wearing heat resistant gloves (avoid spillage, use a trolley).	- Ensure waste is picked up within
- Verify heat sensitive tape.	
Record Keeping	Quality Control
1. Daily Autoclave Use Log (fill in for every load) must be kept for a period of 5 years .	- Biological indicator test must be conducted consecutively for 6 days to ensure
 Validation Records (Biological Indicator 	effectiveness of the autoclave.
results) must be kept for a period of 5 years .	
3. Performance Records (record any problems encountered and the remedial action) must be kept for a period of 5 years .	- Once the above has been established, biological indicator tests must be done every six operating days and the results recorded.
4. Cycle log recorder print-outs must be kept for	Test schedule:
a period of 5 years.! Records must be available for review by	Biological Indicator:
ORM and regulatory bodies (Ministry of the	
Environment, Public Health Agency of Canada or Canadian Food Inspection Agency)	- Heat sensitive tape should be applied to all loads.
Maintenance	Training Requirements
- Check gaskets every	All staff must:
- Disinfect exterior surfaces every	- Read the 'Guidelines to the Safe Use of Autoclaves'.
- Clean interior every	- Complete the Autoclave Safety Training.
- Annual inspections and maintenance	
Contact:	