University of Ottawa Autoclave Procedures

LABORATORIES - ROLES & RESPONSIBILITIES **Autoclave Facility** Location: **Service Hours: Faculty/Department: Building/Room: Items for Autoclaving CAN CANNOT** - Cultures & stocks. - Materials containing solvents, volatile or corrosive chemicals. - Culture dishes & related devices. - Material contaminated with chemotherapeutic - Discarded live & attenuated vaccines. agents. - Contaminated solid items. (Petri dishes, - Radioactive material. Eppendorf tips, pipettes, gloves, paper towel.) Sharps (syringe, needles, blades, broken Items for sterilization such as glassware, glasses, etc.) 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** All material to be autoclaved must be labeled - Surface decontaminate prior to transport. with a complete uOttawa hazardous waste - Use secondary containers. label. - Use a cart with guard rails. - Flasks must be capped with at least aluminum - Use a direct but not heavily populated route. - Bags should be closed for transport. **Cycle Instructions Disposal** - Instructions about type of cycle the user Ensure your waste was autoclaved to wishes to run must accompany all materials. 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: bio.safety@uottawa.ca Read the 'Guidelines for the Safe Use of

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Autoclaves'.

Complete the Autoclave Safety Training.

AUTOCLAVE OPERATORS - ROLES & RESPONSIBILITIES	
Autoclave Facility/Owner	
Location:	Service Hours:
PPE:	
Loading	Operation
 Ensure material is acceptable for autoclaving. Separate similar loads 	 Ensure autoclave is operating properly before commencing cycle. Ensure cycle is appropriate for the load. Check cycle log recorder to ensure autoclave attains desired temperature; pressure; and
- Use secondary containers.	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.	- Allow 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
 Daily Autoclave Use Log (fill in for every load) must be kept for a period of 5 years. Validation Records (Biological Indicator results) must be kept for a period of 5 years. 	 Biological indicator test (validation testing) must be conducted every six operating days and the results recorded. Test schedule:
3. Performance Records (record any problems encountered and the remedial action) must be kept for a period of 5 years .	Biological Indicator:
4. Cycle log recorder print-outs must be kept for a period of 5 years .	- Heat sensitive tape should be applied to all loads.
! Records must be available for review by ORM and regulatory bodies (Ministry of the Environment, Public Health Agency of Canada or Canadian Food Inspection Agency)	
Maintenance	Training Requirements
- Check gaskets every	All staff must:
- Disinfect exterior surfaces every	- Read the 'Guidelines for the Safe Use of Autoclaves'.
- Clean interior every	- Complete the Autoclave Safety Training.
- Annual inspections and maintenance	
Contact:	