



# Autoclave Standard Operating Procedure (SOP)

In case of fire: Fire Alarm is at bottom of stairs; Fire Extinguisher is outside the Basement restrooms.

AUTOCLAVE INFORMATION						
Make/Model	PRIMUS Sterilizer		ding & Room	Clark B09		
Designated Responsible Person	Bobby Ortiz		Phone	505-604-6120		
MAINTENANCE INFORMATION						
Maintenance Schedule	Quarterly		Contact	Stephanie Wright		
Company	Southwest Sterilizers	Pho	one Number	505-750-3539		
PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED						
Splash goggles, Heat-resistant gloves; DO NOT WEAR LAB COATS OUTSIDE OF YOUR LAB.						
PREPARING THE ITEMS		PREPARING THE AUTOCLAVE				
<ul><li>Ensure items are compatible.</li><li>Inspect glassware for cracks.</li><li>Leave caps on liquids loose to avoid</li></ul>		<ul> <li>Inspect the door gasket for cracks or bulges.</li> <li>If off, turn on the power, allow time for the jacket to reach sufficient temp and pressure.</li> </ul>				
<ul> <li>explosion.</li> <li>Cover uncapped bottles or flasks with foil.</li> <li>Affix autoclave tape to items.</li> <li>Bring items on cart by elevator, not stairs.</li> </ul>		<ul> <li>If any problems are found, contact Bobby and note the problem in the logbook.</li> </ul>				
,	LOADING THE AUTOCLAVE					
Always use secondary containment in case of spillover. Do not overfill the autoclave.						
OPERATING THE AUTOCLAVE		Cycles (by sterilize time and type)				
<ul> <li>Gently close the door.</li> <li>Wait until 'Ready' light, then select cycle.</li> <li>Keep even pressure on door until it seals.</li> <li>Wait through 'Purge' step to ensure autoclave begins properly.</li> <li>Fill out logbook.</li> <li>If the cycle fails, notify Bobby and follow the back-up plan.</li> </ul>		<b>1</b> 2 <b>34</b> 567	20 mins 15 mins 20 mins 30 mins 40 mins 20 mins 30 mins 15 mins	Non-liquid (glass/plastic/metal ware) Liquid; very small amount Liquid; less than 1 L Liquid; more than 1 L Liquid; much more than 1 L Fast exhaust Fast exhaust Dry		
Unless the Proced	ure/Manufacturer sa	ys otherwise;	Cycles 1, 3, (	and 4 are most used.		
UNLOADING THE AUTOCLAVE INCIDENTS & NEA		& NEAR MISSES				
<ul> <li>Wear PPE to protect fro</li> <li>Once cycle is 'Complete' allow steam to escape g face away from the doo</li> </ul>	, slowly open door to radually. (Keep your	<ul> <li>In the event of an accident, provide first aid.</li> <li>Report any incidents or near misses to the safety coordinator, your supervisor, and EHS.</li> <li>Use the Incident/Near Miss QR code on the back of</li> </ul>				
Cautiously remove items.		the door to report.				
Slide door shut.		BACK-UP PLAN				
<ul><li>Add 'Time Out' to logbook.</li><li>Return to lab and place in a safe area to cool.</li></ul>		Use alternative autoclave at Castetter Hall (see Walker lab for help).				

## **Autoclave Compatibility Guidelines**

#### COMPATIBLE

### INCOMPATIBLE

- Tissue Culture Flasks
- Glassware
- Pipette tips
- Media Solutions
- Polypropylene
- o Polycarbonate
- Stainless steel

- o Acids, bases and organic solvent
- o Chlorides, sulphates
- o Chlorine, hypochlorite, bleach
- Non-stainless steel
- o Nylon, acrylic
- o Polystyrene (PS)
- o Polyvinyl chloride (PVC)
- o Polyethylene (PE)
- Low/High Density Polyethylene (LDPE/HDPE)
- o Polyurethane

#### **NEVER AUTOCLAVE**

- Flammable, reactive, corrosive, toxic or radioactive materials
- Household bleach
- Any liquid in a sealed container.
- Any material that touches the interior surfaces of the autoclave.
- Paraffin-embedded tissue.

**Glass**: Only Pyrex or Type I borosilicate glass is autoclavable. When autoclaving liquids in Pyrex® containers, do not fill more than 2/3 full and do not seal the container.

**Plastic**: Polypropylene is an inexpensive resin that can resist autoclave temperatures. Polycarbonate can also withstand high temperatures.

**Stainless steel**: Most metals are designed for extreme conditions and are intended to be sterilized.

**Media Solution**: No liquid should be sealed in a container and autoclaved. Fill 2/3 of the container and loosen caps. They should be autoclaved in a steam producing cycle.

If you are unsure or are using a new material, please check with the manufacturer to determine if it is autoclave compatible. I have read and understand the content of this AUTOCLAVE Standard Operating Procedure:

Name	Signature	Date