UNM CHEMISTRY AND CHEMICAL BIOLOGY

Autoclave, Dishwasher, Quick-Dry Oven in Room 380 Procedure

Revision ID: 1 | Date Published: 8/31/2015 | Date Effective: URL:

Since Room is for communal use it is imperative that respect be given to all individuals and the equipment in these machines.

Procedure title	Operation of Equipment in Room 380	
Date of creation / revision		
Name of responsible person	Principal investigator, laboratory supervisor, or autonomous researcher	
1.	This standard operating procedure (SOP) is for a	
Specific laboratory procedure or experiment Examples: synthesis of chemiluminescent esters, folate functionalization of polymeric micelles		
Generic laboratory procedure that covers several chemicals Examples: distillation, chromatography		
Generic use of specific chemical or class of chemicals with similar hazards Examples: organic azides, mineral acids		
Generic use of specific equipment Examples: Autoclave, drying oven, dishwasher		
2. In Room 380	clave, drying oven, dishwasher	
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4.b. Personal protective equipment and other safety equipment

Skin Protection

- 1. No open toe shoes are allowed.
- No shorts are allowed.

4.c. **Designated area**

Safety Shower

A safety or drench shower is located at the entrance to the room should contamination or other emergency require.

Fire Extinguisher

A fire extinguisher is located inside the room. If there is a small fire and you are trained and comfortable with use of fire extinguisher then it is permissible to attempt to control the fire until help can be obtained. In the case of a large fire or for any reason that you do not wish to try to control the fire, pull the fire alarm, evacuate the building. Contact 911, the safety officer, building manager, and necessary personnel outside the building. Describe the conditions to any of the above mentioned personnel and responders.

Exhaust Fan

There is an exhaust fan located on the east wall near the door. It is a round dial. Make sure when equipment is in use that this fan is running to vent any potential fumes or smoke.

Item	Location
Eyewash / safety shower	Near entrance
First aid kit	N/A
Chemical spill kit	N/A
Fire extinguisher	Inside room
Exhaust Fan	Round White Dial on East Wall Near Door
Fire alarm manual pull station	
Evacuation Map	

5. Restrictions and Incompatible Materials

IF YOU HAVE QUESTIONS ASK!

OVEN

- 1. Plastics are NOT allowed in the equipment
- 2. NMR tubes are not allowed to be dried in Quick-Drive Oven
- 3.

AUTOCLAVE

- 1. Do not remove other users equipment from the autoclave until their equipment has finished
- 2. Do not change the temperature on the autoclave
- 3. Do not force the door if there is resistance when opening. Hit the power release button again and then try to open the door.
- 4. Observe the times and procedures posted on the outside of the equipment.
- 5. CLOSE THE DOOR COMPLETELY, to prevent overflow to floor and offices below.

DISHWASHER

- 1. Use only compatible soap.
- 2. Observe the directions on the dishwasher.
- 3. Load the machine such that the glassware will not break in use.

6. **Protocols**

AUTOCLAVE

- 1. Make entry into log book, note time, name and what is put in the machine.
- 2. Use the tub to catch overflow.
- 3. Clean the walls if the medium escapes to the walls.
- 4. Clean as much of the experiment before putting into autoclave. Do not just put your experiment into the autoclave.
- 5. Do not Change the temperature.
- 6. Do not force the door if there is resistance.
- 7. Do not remove other user's material until their equipment is finished. Wait your turn.
- 8. Make sure the exhaust fan is on when using equipment.
- 9. If the machine is not working, place the sign and the front and contact Fred Fuchs (277-1858) or Bobby Ortiz (505 277-0387 or 505-604-6120) IMMEDIATELY

DISHWASHER

- 1. Make entry into log book, note time, name and what is put in the machine.
- 2. Use only compatible soap.
- 3. Observe the directions on the dishwasher.
- 4. Load the machine such that the glassware will not break in use.
- 5. Make sure the exhaust fan is on when using equipment.
- 6. If the machine is not working, place the sign and the front and contact Fred Fuchs (277-1858) or Bobby Ortiz (505 277-0387 or 505-604-6120) IMMEDIATELY

OVEN

- 1. Make entry into log book, note time, name and what is put in the machine.
- 2. DO NOT PUT NMR TUBES in the oven.
- 3. DO NOT PUT any type of plastic in the oven.
- 4. Load the machine such that the glassware will not break.
- 5. Make sure the exhaust fan is on when using equipment.
- 6. If the machine is not working, place the sign and the front and contact Fred Fuchs (277-1858) or Bobby Ortiz (505 277-0387 or 505-604-6120) IMMEDIATELY

7. Special handling procedures

None

8. Emergency procedures

- 1. Emergencies (for example, fire, smoke spill or release)
 - a. Call 911.
 - b. Alert people in the vicinity and activate the local alarm systems.
 - c. Evacuate the area and go to emergency assembly point (EAP).
 - d. Remain nearby to advise emergency responders.
 - e. Chemical Safety Coordinator.
 - f. Provide local notifications.

а	Flush contamination from eyes/skin using the nearest shower for a minimum of 15 minutes	
b	Remove any contaminated clothing.	
C	. In the event of <u>life-threatening emergency</u> :	
	i. Call 911.	
	ii. Alert people in the vicinity and activate the local alarm systems.	
	iii. Evacuate the laboratory and turning off ignitions sources if safe to do so.	
	iv. Go to emergency assembly point (EAP).	
	v. Remain nearby to advise emergency responders.	
	vi. Contact SRS, UNM Police, PI, and Chemical Safety Coordinator.	
	vii. Bring to the hospital copies of safety data sheets (SDSs) for all chemicals to which the victim was exposed.	
d	. In event of a <u>non-life threatening emergency</u> :	
	i. Administer first aid as appropriate.	
	ii. Alert people in the vicinity	
	iii. Remain nearby to advise emergency responders.	
	iv. Contact SRS, UNM Police, PI, and Chemical Safety Coordinator.	
Describe additio	rgency procedures nal, local emergency procedures.	
9.	Waste disposal Identify amounts of waste anticipated and appropriate disposal procedures. Segregate waste by hazard class (for example, flammable, corrosive) and state (solid, liquid), label appropriately, and place in the laboratory's hazardous waste cabinet.	
N/A		
Additional was Describe additio	te guidelines nal, local waste guidelines.	
10.	Training requirements	
	List the general and laboratory-specific training required	
☐ Glove Box T ☐ Basic Safety	Vaste Management raining	
List additional, lo	ing requirements ocal training requirements. raining requirement g requirement	
11.	Approval Standard operating procedures must be approved by the laboratory manager and directorate safety coordinator.	
	ager (name, signature, date):ty coordinator (name, signature, date):	

2. If personnel exposed

Additional approvals

List subject matter experts consulted for approval:

1. Person consulted

Person consulted

Additional prior approvals required

List any tasks that require prior approval by the principal investigator or laboratory manager (for example, use of restricted chemicals and other higher hazard chemicals and running of higher hazard operations):

1. Task requiring prior approval

Task requiring prior approval