

COC Biotechnology Program



Biotech Lab Equipment Check-Out and Safety Quiz

Version 12-11-03

For more information on the College of the Canyons Biotechnology program contact Jim Wolf, Associate Professor of Biology/Biotechnology at (661) 362-3092 or email: jim.wolf@canyons.edu

These lab protocols can be reproduced for educational purposes only. They have been developed by Jim Wolf, and/or those individuals or agencies mentioned in the references.

I Objective

1. To become familiar with the location of various laboratory equipment, supplies and reagents.
2. To demonstrate your knowledge of laboratory safety by taking a lab safety quiz.

II. Background:

During the semester you will be responsible for your own set up for each experiment. In order to do this, you will need to know the names of the various types of equipment and supplies, their uses, and where they are stored. This worksheet is designed to help you with this information. Keep your descriptions brief, and maybe consider using a diagram or other useful drawing to help you to remember what the item looks like. You can work collaboratively on this exercise, and do not hesitate to ask questions if you want to confirm the identity, location or use of an item. By the way, we just redesigned the lab, so I too will be learning some of the locations with you. After you have completed this assignment, let me look at it, and keep this handy (place in your SOP folder) for easy reference.

III. Biotech Laboratory Equipment:

	<u>Item</u>	<u>Description (sizes/uses)</u>	<u>Location</u>
1.	Beakers		
2.	Pipettes (serological)		
3.	Microcentrifuge tubes (non-sterile)		
4.	Microcentrifuge tubes (sterile)		
5.	Centrifuge tubes		
6.	Pipette tips (non-sterile)		
7.	Pipette tips (sterile)		
8.	Balances		
9.	Stir platform		

Item	Description (sizes/uses)	Location
10.	Stir bars (magnetic)	
11.	Reagents	
12.	Weighing papers	
13.	Racks	
14.	Horizontal gel box	
15.	Power supply	
16.	Pipette pump	
17.	Pipette aid	
18.	Clinical tabletop centrifuge	
19.	Microcentrifuge	
20.	Vertical gel box	
21.	Ice	
22.	Microwave	
23.	Graduated cylinders	
24.	Vortexer	
25.	Tissue culture hood	

Item	Description (sizes/uses)	Location
26.	Tissue culture incubator	
27.	Bacterial incubator	
28.	Thermal gloves	
29.	Flasks	
30.	Swinging bucket centrifuge	
31.	Gel electrophoresis combs and rigs	
32.	Loading dye	
33.	Insect cell media	
34.	Sterile transfer pipette	
35.	Test tube multi-rack	
36.	Fume hood	
37.	Water bath	
38.	Dry shaking bath	
39.	Floating microfuge rack	
40.	Labline marker	
41.	Autoclave tape	

Item	Description (sizes/uses)	Location
42.	Masking tape	
43.	Tissue culture flask	
44.	-- 4 °C microfuge rack	
45.	-- 20 °C microfuge rack	
46.	Petri dishes with media	
47.	Sterile inoculating loops (plastic)	
48.	Telephone	
49.	Eyewash	
50.	Sanisol (sterilizing solution)	
51.	Plastic ruler	
52.	Ethyl/isopropyl alcohol spray bottle	
53.	Acid/base neutralizer	
54.	Biohazard disposal container	
55.	Serological pipette disposal tray	
56.	Analytical balances (0.1 to 0.0001 gram range)	
57.	Weighing paper and boats	

IV. Safety Quiz:

Safety and Common Sense Quiz Biology 2A: Professor Jim Wolf

Name _____

1. True / False Broken glass should be placed in the trashcan.
2. True / False In addition to magnification, a microscope can heat up a specimen.
3. True / False Inches, feet and gallons are valid units in a science lab.
4. True / False In the event of an accident, only consult the instructor if severe.
5. True / False To dilute an acid, add acid to water (as opposed to adding water to acid.)
6. True / False Pipetting by mouth is acceptable if the solution is non-toxic.
7. True / False When pushing a pipette into a rubber stopper, grasp the pipette at the end opposite the stopper.
8. True / False Burns from both acids and bases cause a strong burning sensation.
9. True / False Food and drink are permitted in lab.
10. True / False When heating a test tube, point the tube directly at your lab partner.
11. True / False When an accident occurs and the professor is not around, call 911 immediately.
12. True / False Hot glass looks like cool glass.
13. True / False All chemicals should be treated as deadly.
14. True / False Animal tissues should be disposed of in the garbage.
15. True / False When getting chemicals from the lab cart, it is acceptable to take the chemical to your lab bench.
16. True / False To save time, you should samples from the lab cart to your lab bench
17. True / False In the event of an alcohol fire, use water to extinguish.
18. True / False When conducting an experiment, the organism should be kept alive if possible.
19. True / False When dissecting a specimen, use the scalpel to probe with.
20. True / False When in doubt, do not bother to ask.