

**University of California, Davis  
Laboratory Self-Inspection Checklist**

Principal Investigator/Laboratory Supervisor: \_\_\_\_\_

Laboratories Reviewed: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewer: \_\_\_\_\_

Revised 11/2014

<b>I. SAFETY PROGRAM ADMINISTRATION</b>			
<b>A. Chemical Hygiene Plan</b>	Yes	No	N/A
1. Does the laboratory have the required elements of the campus-wide Chemical Hygiene Plan and has it been reviewed in past year?			
2. Are there any operations that require prior approval before beginning (e.g., Radiation Safety, Bio-safety committee)?			
<b>B. Illness and Injury Prevention Plan</b>	Yes	No	N/A
1. Does laboratory have access to Department IIPP and has it been reviewed in past year?			
2. Is there documentation that all laboratory personnel have trained on IIPP?			
<b>C. Standard Operating Procedures (SOP's)</b>	Yes	No	N/A
1. Are there written SOP's covering the laboratory processes and hazardous chemicals referenced in Title 8 ( <i>i.e.</i> , acutely toxic substances, reproductive toxins, and regulated carcinogens)?			
2. Are there exemptions to the written SOPs and are these documented?			
3. Training of laboratory personnel documented.			
4. Required specialized training complete and documented.			
5. Training is current with Chemical Hygiene Plan.			
6. Training is complete on Hazardous waste management.			
7. Training is complete on Blood borne Pathogen requirements.			
<b>II. HAZARDOUS MATERIALS</b>	Yes	No	N/A
1. Laboratory doors are labeled with emergency contact notification names & numbers, hazards present & necessary precautions.			
2. Labels are clean and intact on all chemical containers.			
3. Chemical containers are clearly identified with contents and hazards.			
4. Containers with non-hazardous substances ( <i>i.e.</i> , water) clearly labeled to avoid confusion.			
<b>A. Chemical Controls</b>	Yes	No	N/A

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1. Chemicals are not stored on laboratory benches in excessive quantities.			
2. Expired or chemicals not used (for more than one year) are disposed of as hazardous waste.			
3. Secondary containment is provided for strong acids and strong bases.			
4. Incompatible chemicals are segregated and stored with compatible hazard classes.			
5. All chemical containers are closed, except when actively adding or removing materials from them ( <i>i.e.</i> , no open funnels left in container).			
6. Containers of peroxide-forming chemicals are dated upon receipt and disposed of as hazardous waste within one year of receipt.			
7. Safety Data Sheets (SDS) and laboratory chemical inventory are up-to-date and readily available.			
8. Chemicals (liquids) are stored below eye level and not directly on the floor, unless in secondary containment.			
9. Dedicated chemical storage (cabinets, refrigerators, freezers) clearly labeled with contents and hazard warnings.			
<b>B. Flammable &amp; Combustible Liquids</b>	Yes	No	N/A
1. Flammable liquids stored in 1-gallon or smaller containers or kept in 2-gallon or smaller safety cans.			
2. Flammable liquids (including flammable liquid waste) stored outside of a storage cabinet does not exceed 10 gallons.			
3. If more than 10 gallons of flammable liquids are present does the laboratory have an approved flammable storage cabinet?			
4. Flammable liquids, stored in flammable storage cabinets limited to 60 gallons per fire rated area.			
5. Flammable liquids requiring reduced temperature stored in flammable-rated refrigerator/freezer.			
<b>C. Particularly Hazardous Substances</b>	Yes	No	N/A
1. Have all particularly hazardous substances been identified?			
2. Designated area(s) for acutely toxic materials, reproductive toxins and/or carcinogens clearly marked.			
3. Are all users adequately trained? Documentation available?			
4. All necessary PPE (personal protective equipment) available and used as needed.			
<b>D. Radioactive Materials</b>	Yes	No	N/A
1. Stock materials of radioactive materials are secured against unauthorized removal?			
2. Do personnel wear lab coats and gloves when handling radioactive materials? If assigned dosimeters, are they wearing them?			

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3. Are all radioactive materials registered with the EH&S Health Physics Program?			
4. Radioactive Waste – Properly labeled, segregated, and shielded?			
<b>III. CHEMICAL WASTE</b>			
<b>A. Storage</b>	Yes	No	N/A
1. Are chemical waste containers properly segregated, sealed with tight-fitting caps and stored with EH&S Hazardous Waste Labels attached?			
2. All hazardous chemical waste is arranged to be picked up by EH&S — not drain disposed or evaporated.			
3. Hazardous chemical waste has been accumulating for less than 270 days. Extremely hazardous waste has been accumulating less than 90 days.			
4. All hazardous chemical waste is secondary contained.			
5. Training for personnel handling hazardous waste is documented?			
6. EH&S is called for waste pick up when containers are full (90% capacity or full line) or have reached their accumulation date threshold.			
7. Waste containers sturdy, compatible with the waste, routinely checked for leaks and kept closed when not actively being filled.			
<b>B. Labeling</b>	Yes	No	N/A
1. All hazardous waste containers have the proper labels with contents and accumulation start date.			
2. The hazardous waste accumulation area is clean with waste containers clearly marked.			
<b>IV. BIOHAZARDOUS WASTE</b>			
<b>A. Storage</b>	Yes	No	N/A
1. Solid bio hazardous waste is bagged in red polyethylene bags as per the Medical Waste Management Plan.			
2. Bio hazardous liquid waste is managed per the Medical Waste Management Plan.			
3. Sharps stored in puncture-proof containers and labeled appropriately, not past fill line.			
<b>B. Labeling</b>	Yes	No	N/A
1. Secondary containers for laboratory medical waste storage or transport labeled with the international biohazard symbol and the word "Biohazard."			
<b>V. PERSONAL HEALTH AND SAFETY</b>			
<b>A. Food and Drink</b>	Yes	No	N/A
1. Sinks labeled "Industrial Water – Do Not Drink".			
2. Food and drink is not permitted in laboratories.			
3. Food and drink is stored only in refrigerators/freezers dedicated and labeled "for food only".			

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<b>B. Standard Practices</b>	Yes	No	N/A
1. Employees wash areas of exposed skin prior to leaving the laboratory.			
2. Sink is available and hands washed after removing gloves and before leaving laboratory.			
3. Cosmetic applications, taking medication, touching eyes, nose or mouth avoided in laboratory.			
<b>VI. HEALTH AND SAFETY EQUIPMENT</b>			
<b>A. Safety Showers and Eye Washes</b>	Yes	No	N/A
1. Approved safety showers and eye washes provided within 10 seconds travel time from the work area for immediate use, with no barriers ( <i>i.e.</i> doors) for use or storage of corrosives.			
2. All eyewashes and showers have unobstructed access.			
3. Units inspected and activated monthly. Annually certification by Facilities Management for proper functioning.			
4. Sign indicating location of safety shower and eye wash unobstructed.			
<b>B. Personal Protective Equipment</b>	Yes	No	N/A
1. Has the correct PPE been selected based on a hazard assessment or SDS recommendation?			
2. PPE required for laboratory work: ( ) Lab Coats, ( ) Safety glasses with side shields/goggles, ( ) Hearing protection, ( ) Face Shield, ( ) Proper foot-wear, ( ) Gloves, ( ) Aprons			
3. All necessary equipment is available, in good condition, and properly used.			
<b>C. Laboratory Fume Hoods</b>	Yes	No	N/A
1. Storage inside of hood is kept to a minimum.			
2. Equipment in use does not interfere with proper functioning of the hood.			
3. All work is done at least 6 inches inside hood.			
4. Front sash is lowered when hood is not in use.			
5. Certified annually by Facilities Management, semi-annually for Title 8 §5209 "listed" Carcinogens.			
6. Hood has continuous flow monitor.			
7. The back ventilation slot is not obstructed.			
8. Drains are protected from hazardous materials entering.			
<b>D. Biological Safety Cabinet</b>	Yes	No	N/A
1. Certified within the last year.			
2. Proper type of hood for work being conducted.			
3. Equipment is properly labeled for the hazard present (radiation, UV,), Manufacturer approved for hazard.			
4. Hood ducted per manufacturer and ASHRAE requirements and meets the bio-safety specifications.			

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<b>E. Compressed Gas Cylinders</b>	Yes	No	N/A
1. Cylinders stored in well protected, well vented and dry locations away from combustible materials.			
2. Flammable gases stored away from oxidizers.			
3. Cylinders are secured to a rigid structural component of the building with non-flammable restraints located 1/3 and 2/3 (preferred) or 1/2 the height of the cylinder.			
4. Protective caps in place while cylinders are in storage and full/empty tags attached.			
5. Proper regulators are being used and closed when cylinders are not in use.			
<b>F. Housekeeping &amp; Miscellaneous Laboratory Safety</b>	Yes	No	N/A
1. Bench tops clean, organized and environs maintained to eliminate harmful exposures or unsafe conditions.			
2. Supplies stored at minimum of 24 inches from ceiling and off the floor.			
3. Vacuum lines equipped with traps designed specifically to accumulate/filter the hazardous materials being evacuated.			
4. All moving machinery ( <i>i.e.</i> , vacuum pumps) belts adequately protected by a rigid belt guard or housing.			
5. All sharps disposed properly.			
6. The condition of the broken glass box is adequate and placed out of the way.			
7. Ceiling tiles present and in good condition.			
8. Refrigerators/freezers labeled according to use.			
<b>G. Electrical Safety</b>	Yes	No	N/A
1. High voltage equipment (>600V) labeled, grounded and insulated.			
2. No equipment has damaged or frayed cords.			
3. Extension cords are not connected together.			
4. Power strips used only if they are equipped with circuit breakers.			
5. All equipment is grounded via 3-prong plugs.			
6. Damaged equipment tagged out to prevent use.			
<b>H. General Safety</b>	Yes	No	N/A
1. Cabinets and bookshelves are secured.			
2. Overhead storage is minimized and restrained from falling ( <i>i.e.</i> , shelf lips, rails).			
3. Heavy equipment is secured or braced from falling.			

<b>I. Respiratory Protection</b>	Yes	No	N/A
1. Use of respiratory protection conforms to UC Davis Policy.			
2. Respirators are inspected monthly and before use.			

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3. The user has been fit tested by the Occupational Health Services.			
4. Cartridges are changed on designated schedule and are the appropriate cartridge for the hazard.			
<b>J. Laser Safety</b>	Yes	No	N/A
1. Does the laboratory use any Class 3b or 4 lasers?			
2. Are the lasers registered with EH&S Health Physics Program?			
3. Are the Standard Precautions for lasers prominently posted for each laser?			
4. Are appropriate warning signs and labels posted?			
5. Does the laboratory entrance have a warning light or lighted sign showing when the laser is in use?			
6. Have all workers attended the EH&S Laser Safety course?			
7. Does the laboratory have appropriate laser eyewear?			
<b>K. Non-Ionizing Radiation (NIR) Source</b>	Yes	No	N/A
1. Have proper warning signs been posted?			
<b>L. Emergency Planning &amp; Procedures</b>	Yes	No	N/A
1. Emergency Response Guide and evacuation map visibly posted and current.			
2. Chemical spill kit/cleanup materials available.			
3. Training in spill clean-up procedures provided and documented.			
4. First aid materials kept in adequate supply (in a sanitary and usable condition) and made readily available.			
<b>M. Fire Prevention</b>	Yes	No	N/A
1. Appropriate fire extinguisher mounted, unobstructed, available within 75 feet, in working order and inspected within the last year. A fire extinguisher should be available in a room containing flammable and/or combustible liquids.			
2. Fire extinguisher sign is clearly visible.			
3. 18-inch vertical clearance maintained from sprinkler head ( <i>i.e.</i> , over shelving).			
4. Are all laboratory doors kept closed? Closure devices in place?			
5. Storage of combustible material is minimized.			
<b>N. Exits</b>	Yes	No	N/A
1. Exits and aisles are clear and free of obstructions in case of emergency.			
2. Exit signs clearly visible.			

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