Bio Safety

- Biosafety Cabinets
  - Certified annually
  - Gas tubing in good condition on the touch-o-matic burner or burner with pilot flame in BSC
  - Laboratory personnel trained in proper use of BSC
  - Open flames used appropriately and attended in BSC
  - UV lamp turned off when the laboratory is occupied
  - View screen at appropriate position when motor/blower running
  - If the biosafety cabinet view screen is adjustable, the view screen alarm sounds when the view screen is above the correct working height

- Equipment
  - Appropriate work practices used with centrifuge and blender
  - Using appropriate centrifuge with safety features and balanced properly.

- Disinfectants
  - Appropriate disinfectants used
  - Disinfectant spray bottle labeled with the name and concentration of the disinfectant
  - Containers of diluted disinfectant labeled with the date prepared and/or expiration date
  - Disinfectant bottles in appropriate locations

- Labeling, Bio
  - Appropriate (BL1 or BL2) laboratory practices wall sign posted in the lab
  - Biohazard door sign completed and posted or available if not posted
  - Biohazard labels posted on all equipment used for the storage or manipulation of biohazards
  - For labs registered with the State Dept. of Public Health, the state certification is posted near the door in one of the registered rooms
  - Universal Spill Response poster and yellow incident procedure card posted in the lab

- Registration, Bio
  - Form01 is current
  - Select Agents or Toxins in greater than exempt quantities are used/stored in the laboratory
  - Safety Advisor has reviewed past, present and proposed biohazard research with the Principal investigator and/or Lab Manager
  - rDNA Registration filed with Yale BSC for rDNA Experiments conducted in the laboratory
  - Safety Advisor has reviewed all rDNA Registered Protocols with the PI/Lab Mgr to ensure all rDNA Experiments are covered under an rDNA registration

- Work Practices, Bio
  - Appropriate use of pipettes
  - Glass items substitution with plastic items wherever feasible

- Work Practices, BL2+
  - Glass items substituted with plastic items wherever feasible
  - Manipulations of BL2+ or higher materials performed inside the biosafety cabinet
Condensed Checklist
  • Biosafety cabinets certified and in proper condition
  • Lab personnel are properly trained to use biosafety cabinet
    o Open flames are attended, UV lamp off when lab is occupied, viewing screen at appropriate position
  • Blenders, grinders, and centrifuges are used appropriately and in good condition
  • Appropriate disinfectants are labeled with the name, concentration, and date (and/or expiration date) in proper locations in the laboratory
  • Following signs are posted:
    o Appropriate BL1/BL2 Laboratory Practices
    o Biohazard door sign
    o Biohazard labels on equipment
    o State certification near door (if registered with the State Department of Public Health)
    o Universal Spill Response poster
    o Yellow incident procedure card
  • Registration, Bio
    o Form01 is current.
    o Large quantities of Select Agents and Toxins (BSATs) are stored/used in the lab.
    o Safety Advisor is aware of the research going on in the lab (particularly involving rDNA)
  • Work Practices, Bio
    o Plastic items are preferable to glass items
  • Work Practices, BL2+
    o BL2+ materials should be handled in biosafety cabinets.