

Lab safety:-**A: Personal Protective Equipment (PPE)**

Is the effective use of protective gloves, eye and mouth protection, and laboratory coats, all considered to be personal protective devices.

1-Gloves:

Protective gloves must be worn whenever there is potential for direct contact with infectious materials and should be discarded in a special waste container when removed.

2- Goggles:

It must be worn at any time chemicals, heat, or glassware are used.

3- laboratory coats:

Wearing a laboratory coat is very necessary to protect the body and clothes from germs and chemicals, in addition to preventing the transfer of microbes outside the laboratory.

B: Sterilization:

Sterilization is defined as the process where all the living microorganisms, including bacterial spores are killed. Sterilization can be achieved by physical, chemical, and physiochemical means.

- Use alcohol or wash hands with soap.

C: Waste disposal:

Most laboratories have special waste containers for sharps, radioactive waste, and organic chemicals.

- Do not throw needles without a cap.
- Ensure that chemicals are safe to dispose of in sewers.
- Don't leave your mess to the next person to clean up.

Note:-

- a. Do not bring food and drink into the laboratory.
- b. Do not taste or smell the chemicals.
- c. Act responsibly in the laboratory and do not play with chemicals.
- d. Inform the supervisor in the event of any accident.

Introduction:-

Laboratory instrument is a general term for all kinds of instruments, vessels, and other tools needed for operations in various laboratories. Which are exposed to some extreme chemical and physical influences and must at the same time provide accurate measurement results, have a long life, and provide safety for the user. Therefore, laboratory instruments have high quality and be meet the high standards in laboratory technology.

Under this term, we will study in the coming days most of the devices that can be dealt with in the laboratory.

How do they work? What are their uses? And how do we preserve them?

Laboratory instrument :-

Light Microscope



Electron Microscope



Spectrophotometer



Centrifuge



Incubator



Water bath



Bunsen burner



Pipettes



Balance



Filtration apparatus



Glass wares



Autoclave



Chromatography



Dry chemical analyzer



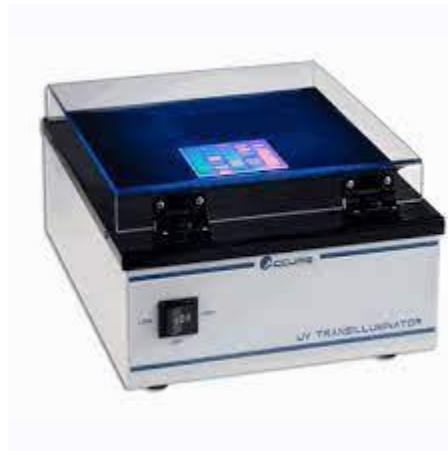
Dry oven



PCR machine



Electrophoresis



UV transilluminator