## PHYSICAL PHARMACY LAB. GLASSWARE REVIEW

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The Glassware are tools which needed to use in the laboratory to prepare, synthesis, and fabrication of material solutions and powders in different fields of sciences.

There are several types of laboratory glassware use for special purpose for each. We aim in this lecture to introduce a group of glassware which will be used familiarly in the physical pharmacy lab.

## List of important glassware used in physical pharmacy lab.

- Beaker
- Glass rod
- Volumetric flask
- Graduated cylinder.
- Conical flask
- Burette
- Pipet
- Pipet filler
- Funnel
- Filter paper
- Separator funnel

Beaker:- a glass container used in mixing powders and solutions.

Glass rod:- is a piece of laboratory equipment used to mix chemicals.





Volumetric flask:- is a flat bottomed bulb with a elongated neck calibrated to hold a set volume at a mark on the neck. It is used to prepare solutions.

Conical flask:- a glass container with a flat base, a wide, rounded body, and a long neck, used in titration.





Burette:- a graduated glass tube with a small aperture and stop valve for measuring the liquid received or discharged during titration.

Pipette:- a small piece of apparatus which typically consists of a narrow tube into which fluid is drawn by suction.it is used for transferring small volumes of liquid. Pipette filler:-is a tool used to safely draw liquids into a pipette.

Funnel:- an glass tool that has a wide round opening at the top, sloping sides, and a narrow tube at the bottom, used for pouring liquids or powders into containers with narrow necks, and for filtration process.





Filter paper:- is a semipermeable paper barrier placed perpendicular to a liquid.it is used in filtration process.

Separator funnel:- a globe or cylinder shaped funnel provided with a stop valve for drawing off the lower layer of a mixture of immiscible liquids.





