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16/MHS01/112

MEDICAL LABORATORY SCIENCE

MLS 201

What are Glasswares? Laboratory glasswares are a variety of materials made of glass used for scientific experiments and analysis in all fields of sciences especially the diagnostic and research field of medicine.

Methods of cleaning four different glass wares

Burets

* 1. Wash with hot soapy water, rinse thoroughly with tap water.
  2. Then rinse 3-4 times with deionized water.
  3. Burets need to be thoroughly clean to be used for quantitative lab work.

**Pipets and Volumetric Flasks**

1. May need to soak the glassware overnight in soapy water.
2. Clean pipette and volumetric flasks using warm soapy water.
3. The glassware may require scrubbing with a brush.
4. Rinse with tap water followed by 3-4 rinses with deionized water.

**Hematological glassware needs special precautions:**

1. Do not use detergents because if there is a minute concentration that may lead to hemolysis of RBCs.
2. So for general Tubes, pipettes, and slides wash these thoroughly under tap water. can use a brush to remove any leftover this glassware.
3. Now keep in dichromate solution for 12 to 24 hours. Then again wash thoroughly with tap water.
4. Allow draining.
5. Now dry in the hot oven.

**Blood pipettes need following method to clean:**

1. With help of suction pump or hand held the suction pump, draw tap water through these pipettes.
2. Use distilled water for suction and washing.
3. Last use acetone for the same purpose.
4. Now let them dry in air.
5. If there are blood microclots then keep them in 10% potassium hydroxide for 12 to 24 hours.

**Drying Glassware**

All glasswares should be dried

1. If glassware is to be used immediately after washing and must be dry.
2. Rinse it 2-3 times with acetone. This will remove any water and will evaporate quickly.
3. This is not a great idea to blow air into glassware to dry it.
4. **Acetone** may be used for a final rinse of sensitive or urgently needed glassware as the solvent is miscible with water, and helps dilute and wash away remaining water from the glassware.