



LABORATORY MATERIALS AND INSTRUMENTATION

CENTRIFUGE

- **Centrifuge** – used to separate substances of different mass or density: **disinfected every week**
- **RPM** – Revolutions per minute – speed of the centrifuge
 - **Calibrated using a tachometer every 3 months (Strobe light is used to check the head angle)**
- **RFC** – Relative Centrifugal Force – force needed to separate the components of a sample or solution.

TYPES OF CENTRIFUGE

Horizontal Centrifuge

- **Swinging bucket type**
- Tubes are held in a **VERTICAL** position when not moving
- Tubes are in a **HORIZONTAL** position when in full motion
- Generate **low speeds** only but can **produce a tight pellet** of precipitate or clotted cells in the bottom of the tube.
- Recommended for **serum separator tubes**

Angle Head Centrifuge

- Has a **fixed 25-52° angle** at which the tubes are held during centrifugation
- The **sediment packs at an angle but not as tightly** as with the horizontal centrifuge
- Adequate for cell packaging but decantation is not recommended

- It produces **less heat** due to air friction during the centrifugation process as compared to the horizontal centrifuge

Ultracentrifuge

- Generates the **highest speeds**
- Held at a fixed angle but generates **tight sediment buttons** due to high speed generated
- **REFRIGERATED** to reduce heat buildup produced by friction.
- Recommended for **lipoprotein separation**

GLASSWARES

1. Borosilicate – examples: Pyrex and Kimax

- **MOST COMMONLY USED**
- For sterilization and heating (has high degree of thermal resistance (e.g. Pyrex: 515°C))

2. Boron-free glassware/ Soft glass

- Has **high alkali resistance**
- Has **less thermal resistance** than borosilicate glass

3. Corex – example: Corning

- Alumina-silicate glass
- **Strengthened chemically rather than thermally**
- 6 times stronger than borosilicate

4. Vycor – example: Corning

- **With high thermal resistance (900°C)**
- For **drastic heat shock and extreme chemical treatment** (except hydrofluoric) and dilute alkali

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