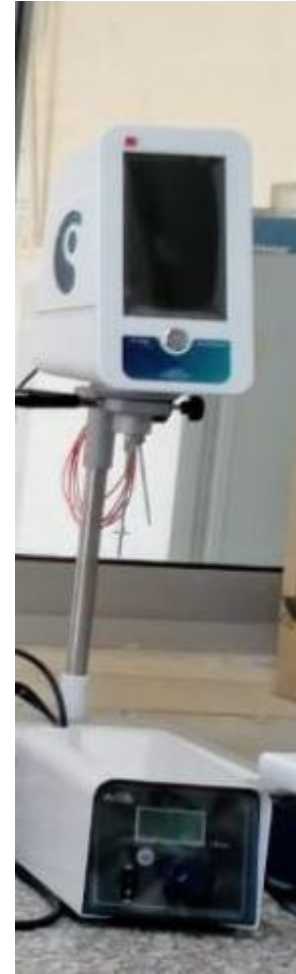


**Name:** Lamy Rheology viscometer B-One Plus, France

**Description:**

- It has a touch screen with a temperature sensor
- It measures viscosity of pharmaceutical preparations with a speed between 0.3 to 250 rpm.
- It can display Viscosity – Speed – Torque – Shear stress – Time - Temperature - Choice of viscosity units: cP/Poises or mPa.s / Pa.s on its screen



**Name:** Elma Ultrasonic cleaning sonicator, Germany

**Description:**

- It has ultrasonic power of 80 W and ultrasonic frequency of 37 KHz.
- It delivers sound waves to samples through water with a temperature-controlled operation.
- It can be used for many purposes such as mixing solutions, accelerating the dissolution of a solid into a liquid, decreasing particle size, and preparation of dispersed system.



**Name:** OHAUS Economical pH Bench Meter, model starter 3100 (ST 3000), USA

**Description:**

Used for measurement pH of pharmaceutical preparation ranging from (2-16), with error limit of  $\pm 0.01$





**Name:** Interactive board

**Description:**

- Used to display presentations to undergraduate students during demonstrating practical sections.
- Used by postgraduate students to present their protocols during registration seminars

**Name:** Human water purification system, Korea

**Description:**

-used to provide ultra-purified water to be used in preparing nano systems.

CE





**Name:** Daihan wise stir digital Hotplate stirrer ceramic coated plate model MSH-20D, Korea

**Description:**

-Used for mixing and heating solutions for a great variety of chemical reactions.

-Its plate size is 180 x 180 (mm), with a magnetic power up to 1500 rpm, temperature capacity up to 380<sup>0</sup> C, and stirring capacity up to 20 L for H<sub>2</sub>O.

**Name:** Daihan model HG-15D Homogenizer with remote digital controller, Korea

**Description:**

- It has speed range of 2000 – 27000 rpm
- It can reduce the size of particles and droplets in a liquid, so that they become uniformly small and evenly distributed.
- It can produce stable dispersion as nanosuspension and nanoemulsion.



**Name:** Fume hood

**Description:**

-Provides a ventilated, enclosed workspace intended to capture, contain, and exhaust harmful or dangerous fumes, vapors, and particulate matter generated by procedures conducted within the fume hood.





**Name:** Freeze dryer (lyophilizer)

**Model:** Christ bench top ALPHA, Germany

**Description:**

-Used to dry a completely frozen sample under vacuum; converting it from solid state to vapor state without passing through a liquid state.

-It is good for the drying of heat sensitive materials, nanoformulations, and potent drugs.





**Name:** Cupboards

**Description:**

For storage chemicals and instruments. The cupboards are resistant to corrosive chemicals and supplied with top fans to keep good air flow inside the cupboard leading to increase in shelf life of chemicals and instruments



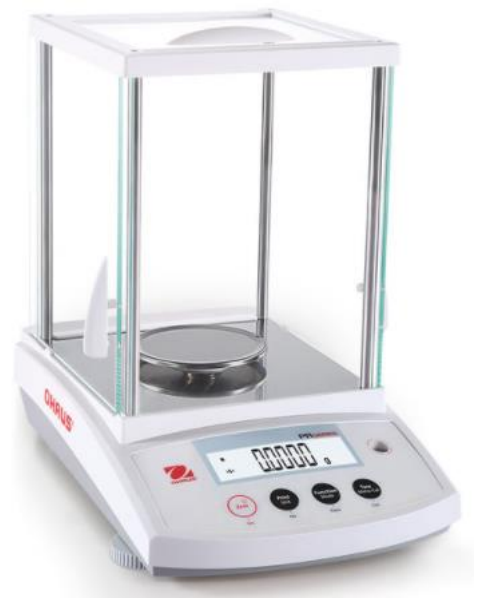
**Name:**

1. OHAUS Analytical balance model PR224 internal calibration, USA
2. OHAUS Precision balance model PR523, USA

**Description:**

1. For Analytical balance: Weighing materials with maximum capacity of 220 g and readability of 0.1mg
2. For Precision balance: Weighing materials with maximum capacity of 520 g and readability of 1mg

1. Analytical balance



2. Precision balance

