

# English for Biology

## (3<sup>rd</sup> year Bachelor of Microbiology)

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Equipment/apparatus	Use
<b>Analytical Balance</b>	measurement of mass in the sub-milligram range
<b>Autoclave</b>	An autoclave is a pressurized chamber used for the process of sterilization and disinfection by combining three factors: time, pressure and steam
<b>Bunsen burner</b>	It is a gas-fueled single open flame
<b>Centrifuge</b>	The primary application of a centrifuge is the separation of particles suspended in a suspension. It can be used for the separation of cell organelles, nucleic acid, blood components, and separation of isotopes.
<b>Colony Counter</b>	A colony counter is primarily used for counting the number of colonies present on a culture plate to estimate the concentration of microorganisms in liquid culture
<b>Deep Freezer</b>	Deep freezers are used in laboratories to store and preserve medical equipment, food items, blood samples, medicines, and injections, etc. for a more extended period of time.
<b>Hot plate</b>	Hot plates are used to heat glassware and their components.

<b>Hot air oven</b>	A hot air oven is an electrical device that is used for sterilization of medical equipment or samples using dry heat
<b>Incubator</b>	An incubator is a device that is used in the laboratories for the growth and maintenance of microorganisms and cultures.
<b>Laminar Air Flow/ Laminar Hood</b>	Laminar Hood is a closed device primarily for processes or instruments sensitive to microbial contamination.
<b>Magnetic Stirrer</b>	It is usually used for mixing various liquid components in a mixture in a chemical or microbiology laboratory.
<b>Microscope</b>	Microscopes are devices that allow the observer to an exceedingly close view of minute particles
<b>pH Meter</b>	pH meter is a device used in laboratories that measure the H-ion concentration in water-based solutions to determine the acidity or alkalinity of the solution.
<b>Spectrophotometer</b>	In a microbiology laboratory, a spectrophotometer is applied for the measurement of substance concentration of protein, nucleic acids, bacterial growth, and enzymatic reactions.
<b>Water Bath</b>	Water baths are primarily used for heating samples under a controlled temperature.
<b>Water Distiller</b>	It is used to obtain distilled water required for many lab tests as well as for the preparation of culture media.

**Glassware**

Petri dish  
 Pipette  
 Burette  
 Beaker  
 Bottle  
 Erlenmeyer flask  
 Slides/cover-slides  
 Test tubes  
 Screw capped tubes

**Miscellaneous**

Bench  
 Tap water  
 Sink  
 Inoculation loop  
 Micropipette  
 Needle  
 Filter  
 Chemicals  
 Reagents  
 Solvents  
 Normal saline solution  
 Bioreactor  
 Spreader  
 Culture media  
 Tips  
 UV lamp  
 Gloves  
 Lab coat  
 Glasses

