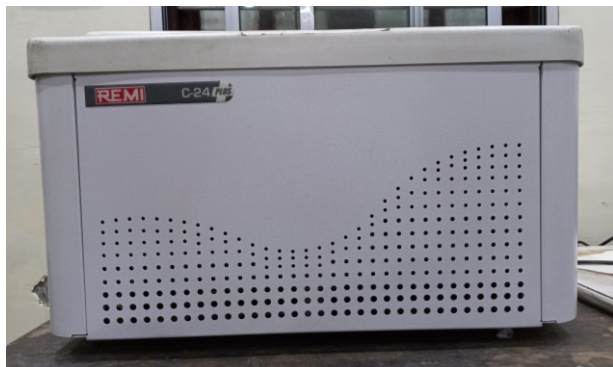


Biology Department is equipped with modern Instrumentation Facility

-Major Instruments with Applications-



Cooling Microcentrifuge (Remi)
Isolation of DNA, RNA and Protein



Electronic Balance (0.1 mg)
(Wensar)
Weigh very minute quantities analytical reagents.



Nano volume spectrophotometer (Nanodrop)
(Thermo Scientific)
The quantitative analysis of DNA, RNA and Protein.
The purity of DNA and RNA analysed.



Autoclave

(Biotechnics-India)

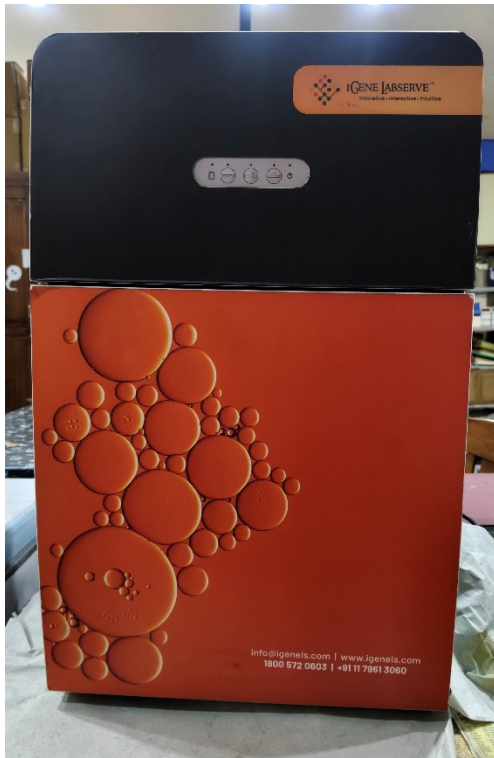
For sterility of growth media, glassware, etc. by high temperature (121°C) and pressure (15 psi).



Bacteriological Incubator

(Bio-Technics India)

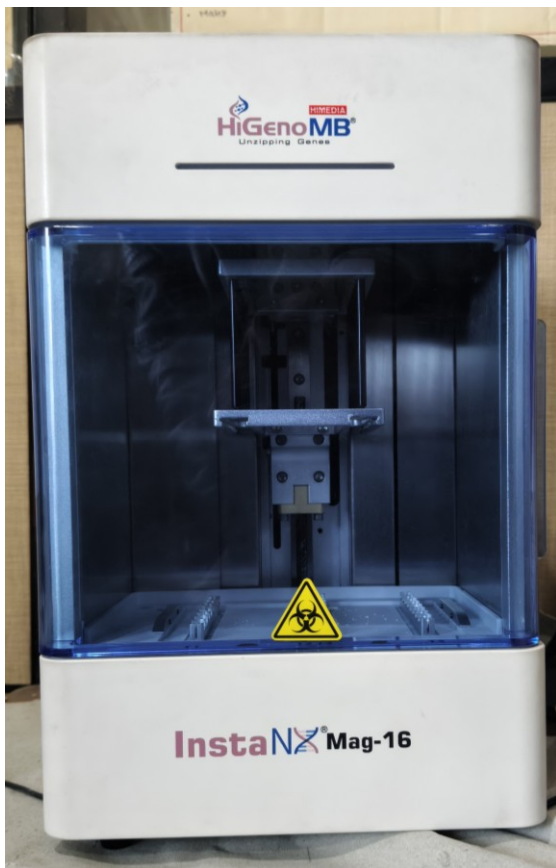
To Incubate bacteria like *Bacillus*, *Yersinia*, *Listeria*, *Brucella*, *Clostridium* etc.



Gel Documentation System

(iGene Labserve)

Visualization of DNA gel after electrophoresis with documentation.



Automated Nucleic Acid Extractor

(Himedia)

for automatic extraction and purification of DNA/RNA. The operation is automatic, fast and simple. Users can extract 1-16 samples at a time.



Inverted Microscope

(Radical)

For examination of cell cultures in inverted position from top.



Stereo Microscope (Sterni305)

(Carl Zeiss)

Applications at low magnification. The varied preliminary evidences such as, Paints, physical matches, etc. The 3-D imaging of Hair in forensic biology etc.



Rotary Microtome

(Yorco)

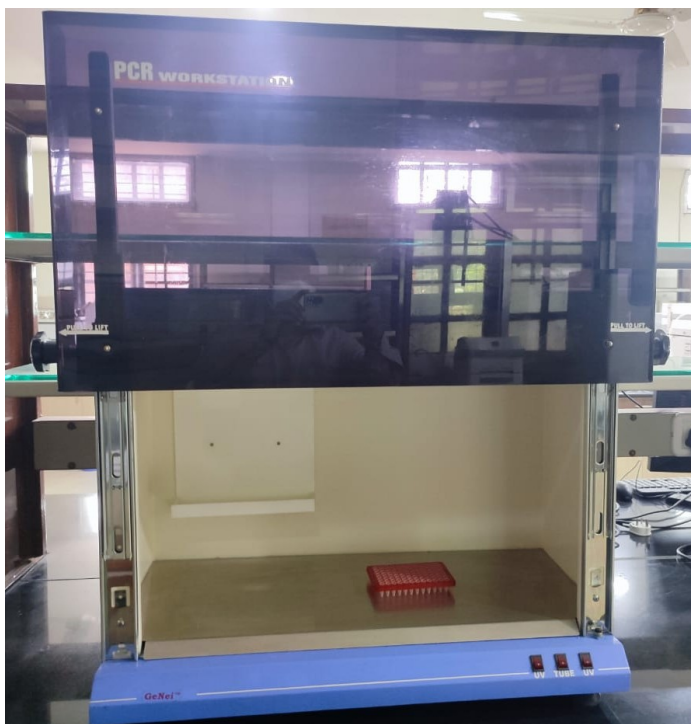
For histological sectioning of various tissue samples.



Deep Freezer (Ultralow temperature)

(Godrej)

The enzymes, Hormones,, Antibodies and various thermo labile biomolecules need ultralow temperature for storage thus Deep freezer is used to store these reagents for long time.



PCR Workstation

(Genei)

Provide space for DNA / RNA during amplification to avoid contamination (aseptic environment).



Semi-Automatic Biochemistry Analyzer

(Micro lab)

Detection of quantitative analysis of biomarkers such as creatinine, glucose, etc from various body fluids e.g. serum, urine.



CO₂ Incubator

(Esco)

Provide optimum environment along with constant supply of CO₂ for culturing of animal cells.



BOD Incubator Shaker

(Apex)

provides optimum temperature and constant stirring at set rpm,