

A thick black L-shaped frame surrounds the text. It starts with a horizontal bar at the top left, followed by a vertical bar extending down to the bottom left. On the right side, a vertical bar extends from the top right down to the bottom right, where it meets a horizontal bar extending left towards the center.

CENTER FOR EXCELLENCE IN NANOSCIENCES

AT NARGUND COLLEGE OF PHARMACY, BANGALORE

INTRODUCTION:-

- THE FACILITY IS DEVELOPED TO PRODUCE CUTTING EDGE TECHNOLOGY IN THE FIELD OF NANODRUG DELIVERY SYSTEM.
- THE FACILITY INCLUDES FORMULATION, EVALUATION, *IN-VITRO* ANALYSIS OF NANODRUG DELIVERY SYSTEMS.
- WE ALSO HAVE A IN HOUSE ANIMAL HOUSE FACILITY WHICH FACILITATES FOR *IN-VIVO* ESTIMATION OF THE FORMULATIONS.
- PRESENTLY WE WORK ON ANTICANCER, ANTIEPILEPTIC, ANTITUBERCULOSIS, ANTISCHIZOPHRENIAC, ANTIDIABETIC AND ANTIANGINA DRUGS.

FACILITIES AVAILABLE

- NANOFORMULATION FACILITY
- *EX-VIVO* EVALUATION FACILITY
- *IN-VITRO* EVALUATION FACILITY
- *IN-VIVO* EVALUATION FACILITY

NANOFORMULATION FACILITY

- HIGH SPEED HOMOGENISER:-

Used to prepare homogeneous solutions nanoemulsions, nanosuspensions etc.

Speed:- 33000 rpm

Sample size:- 10ml and above



- BROOKEFIELD VISCOMETER:-

Analyze the viscosity of the preparations.

Sample size- 1ml and above



- EPPENDORF BIOSPECTROPHOTOMETER:-

Used for protein estimation and fluorescent estimation studies.

Sample size 10 micro liters and above.

200-830 nm wavelength.



- HORIBA SZ100 NANOPARTICLE SIZE ANALYZER:-
 - Particle Size Measurement from 0.3 nm to 8 μm .
 - Measurement of Zeta Potential from -200 to + 200 mV.
 - Determination of the Molecular Weight from 1×10^3 bis 2×10^7 g/mol.



- EPPENDORF CENTRIFUGE 5430R:-
 - Speed 30134xg.
 - Temperature control -11 deg C to 40 deg C.



■ BIOBASE LYOPHYLIZER:-

- Huge sample space, quick drying.
- compressor upto -60deg C.
- High pressure vacuum pump.



EX-VIVO EVALUATION FACILITIES

- ALPHA LINER Class2 BCS BIOASCEPTIC CABINET:
Laminar air flow, with wide work space.
UV and white light.



- CO2 INCUBATOR EPPENDORF GALAXY 170S:-
 - 170L capacity.
 - High space, High temperature disinfectant
 - Split inner doors.
 - Sealed inner glass door, reliable IR CO2 sensor, RS-232 communication port, 25 mm access ports.
 - Fanless design.
 - Six-sided direct heating system.
 - Low gas consumption.

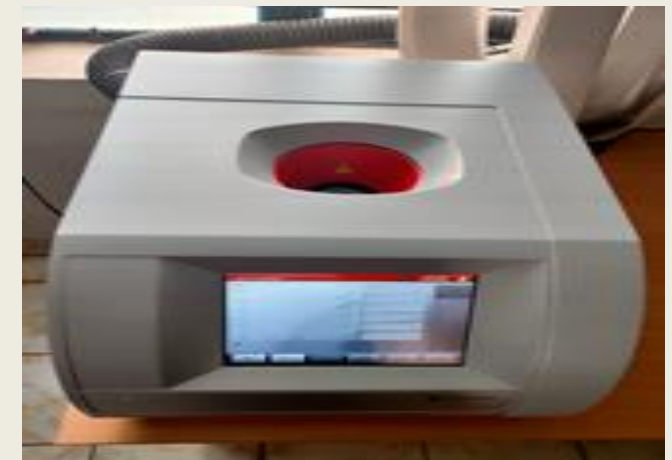


- COUNTESS- CELL COUNTER:-
 - Automated Cell Counter.
- EVOS FL AUTO- FLUOROSCENT MICROSCOPE:-
 - Live cell imaging and area scanning.
 - Image stitching, and time-lapse imaging.



■ MONOWAVE 200

- This are high performance Microwave reactors for small scale synthesis
- Organic synthesis – Inorganic synthesis, Polymer chemistry can be performed successfully
- 850 W unpulsed microwave output power
- Extremely high field density
- Simultaneous temperature measurement with IR and fiberoptic sensor
- Highest accessible temperature/pressure conditions
- Utmost temperature homogeneity
- Up to 100 h reaction times



- SPRAY DRYER
 - Spray drying is a method of producing a dry powder from a liquid or slurry by rapidly drying with hot gas.
 - Most useful for drying thermo labile material.
 - It is quite common in production of microspheres and microcapsules designed for drug delivery systems.
 - It consists of Atomizer, Nozzle, Cyclone Separator Feed tank, pressure gauge, temperature gauge
 - Volume reduction, easy of handling, chemical and biological stability, Defined particle size.



IN-VITRO EVALUATION:-

- *IN-VITRO* DISSOLUTION TEST APPARATUS.
- DISSINTEGRATION TEST APPARATUS.
- FICKS DIFFUSION CELL.
- FRIABILITY TEST APARATUS.
- DENSITY TESTER.
- SCIEVE SHAKER.
- UV VISCIBLE SPECTROSCOPY.
- FTIR SPECTROSCOPY.
- HPLC
- KARL FISCHER TITRATOR.
- GAS CHROMATOGRAPHY.

IN-VIVO EVALUATION:-

- ELECTROPHORESIS.
- GEL DOCUMENTATION SYSTEM.
- ANIMAL HOUSE FACILITY.
- -60 DEG COOLED DEEP FREEZER.
- DOUBLE UNIT AND SINGLE UNIT ORGAN BATH.
- ANALGESOMETER.
- BIOAUTOANALYZER.(urine and blood)
- ELECTROCONVULSIOMETER.
- ACTOPHOTOMETER.
- ROTAROD APPARATUS.
- PLECHISMOMETER.
- ANTIANXIETY STUDY.
- EDDYS HOT PLATE

CONTACT US:-

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