

BIONEST INCUBATION CENTRE

BioStantup Evolution Enabled

Catalysed By





The PSG-STEP: BioNEST Bioincubation Centre housed at PSG College of Technology with the support from Biotechnology Industry Research Assistance Council [BIRAC], Government of India under Bioincubators Nurturing Entrepreneurship for Scaling Technologies [BioNEST] Scheme. The core objective of the Centre is to nurture and accelerate cutting edge biotechnological product innovations by offering wide range of support to innovators and startups working at the intersection of bioscience and technology.

THRUST AREAS

ENVIRONMENTAL BIOTECH | FOOD BIOTECH | AGRICULTURAL BIOTECH | INDUSTRIAL BIOTECH | MEDTECH / HEALTHCARE

GEL DOCUMENTATION SYSTEM

Vilber Lourmat Fusion Solo 6S EDGE Auto V0.70

For Chemiluminescence, Visible fluorescence imaging, multiplexing Western blot, UV fluorescence based DNA, RNA imaging & colorimetric protein gel imaging.

- Software for molecular weight calculation, band distance, colony counting, etc.
- High Sensitivity Reading Technology for noise reduction
- Super Bright Technology for viewing faint bands
- App studio with library of imaging protocols



SONICATOR

VIBRA CELL VCX 500



250 µL to 1000 mL

Applications:

Cell lysing, Sample preparation,
Homogenization, ChIP assay,
Emulsification, Disaggregation and
Deagglomeration

BIOREACTOR

Scigenics Bioferm LS in situ
Sterilizable Bioreactor of 10L capacity



ROTARY EVAPORATOR

HEI - VAP ADVANTAGE ML/G3

Speed: 10 - 280 rpm

Flask lift mechanism: Motorised & Hand lift

Cooling surface: 1200 cm²

Heating bath temperature range: 20 to 210° C Evaporating & receiving flasks volume: upto 3 L



SPECTROPHOTOMETER HITACHI UH5300



Optical system: Double beam monochromator

Light source: Xenon Flash Lamp

Detector: Silicon Photodiode

Cell holder: Automatic 6 cell turret

Wavelength range: 190 to 1100 nm

Spectral bandwidth: 1 nm Straylight: less than 1%

Scan speed: upto 6000 nm/min

Noise level: 0.0001 Abs

MICROVOLUME SPECTROPHOTOMETER DENOVIX DS 11

Minimum sample Size: 0.5 µl

Light Source: Pulsed Xenon Flash Lamp **Detector Type:** 2048 element CCD **Wavelength Range:** 190 - 840 nm

Detection Limit: 0.04 mg/mL protein, 0.75 ng/ µl ds DNA

Measurement Time: 2 seconds



REFRIGERATED CENTRIFUGE THERMO SORVALL LEGEND XTR



Temeperature Range: -10 to 40 ° C

Capacity: 4 litres

Rotors: Fixed angle & Swinging bucket

Auto lock rotors with click seal biocontainment lids

Swinging Bucket Rotor:

Maximum RCF: 4, 816 x g | Maximum RPM: 4,700

Fixed Angle Rotor:

Maximum RPM: 15, 200 | Maximum RCF: 25, 090 x g

REFRIGERATED INCUBATOR ORBITEK CINC 165

Temperature range: 5° to 60 ° C

Temperature Accuracy: ± 0.1 ° C @ 37° C



REFRIGERATED INCUBATOR SHAKER

ORBITEK LE BT- A

Temperature range: 5 ° to 80 ° C

Temperature accuracy: ± 0.1 ° C @ 37° C

Speed: 25 to 400 RPM

Flask holding capacity: Can hold from 10 mL tubes to 2L flasks Additional features: Photosynthetic light bank UV C light for

disinfection Stationary tray for incubating Petri plates



UPCOMING SPECIALIZED LABORATORIES

- Molecular Biology Lab
- Bio Process Lab
- Analytical Instrumentation Lab
- Animal Tissue Culture Facility

OUR SERVICES

INCUBATION SUPPORT

- · Private cubicles, Open innovation lab/Co working space
- Dedicated labs for Biotech Processes
- Testing facility
- Equipment facilities can be accessed by Bio entrepreneurs in the region

TECH / BIZ SUPPORT

Mentoring | Legal and IPR Services | Networking Events | Training Programmes | Investor & Industry Connects Facilitate participation in nationwide events to showcase incubate products & solutions

FUNDING SUPPORT

NIDHI-PRAYAS: NIDHI Promoting and Accelerating Young and Aspiring Innovators and Startups Grant support upto Rs 10 lakhs to develop an idea into Prototype

NIDHI-EIR: NIDHI Entrepreneur – in – Residence Fellowship support upto Rs 30, 000 per month for a period of one year to young biotech aspirants for idea validation

SEED FUND: Financial support upto Rs 25 lakhs as loan for commercially viable Biotech startups.

BIRAC SUPPORT: Assistance to the startups/innovators for financial support under BIRAC schemes

ECOSYSTEM SUPPORT

Access to labs & mentoring support from technical experts of

- PSG College of Technology
- PSG Institute of Medical Science & Research
- PSG College of Pharmacy
- PSG Institute of Advanced Studies
- PSG College of Arts & Science

For Enquiry & Details Contact:

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