ISO 9001:2015

We Are Laboratory Technologies

Empowering Innovators through Research and Development

INFINITE BIOTECH

Institute Of Research & Analytics,
Sangli, Maharashtra, India.

We provide research services with well-equipped laboratory to fulfill the requirements of the innovators, We provide project assistance to the students and innovators of the Biotechnology, Microbiology, Nanotechnology, Pharmacology, Analytical Chemistry, Food Technology, Biochemistry, Agriculture Paste Management, Pharmacy, Botany, Zoology.

Fields of Expertise

- Animal Tissue Culture
- In-vitro Biomedical Assays
- Phytochemical Analysis
- Analytical Services
- Nanotechnology Assays
- Molecular Biology Assays
- Cell Biology Assays
- Microbiology Assays

ANIMAL TISSUE CULTURE

Anticancer/ Cytotoxicity Assays

- By MTT Method
- By SRB Method
- By Neutral Red Uptake Method
- By Tryphan Blue Dye Exclusion Method
- By XTT Method
- By Brine Shrimp Lethality Method

Apoptosis Determination

- By DAPI Nuclear Staining Method
- By Flow Cytometry Method
- By AO/EB Stainig Method

Cell Cycle Analysis

- By flow cytometry Method
- By Caspase Activation Method
- Mitochondrial Transmembarane Potential Detection Method
- Phosphatidylserine Extemalization Method
- In-vitro Wound Healing/ Scratch Assay using Different Cells

IN-VITRO BIOMEDICAL ASSAYS

In-Vitro Antioxidant Assays

- By DPPH Method
- By FRAC Method
- By ABTS+ Radical Scavenging Method
- By Nitric Oxide Scavenging Method
- By Superoxide Scavenging Method

In-Vitro Enzymatic Antioxidant Assays

- By SOD Method
- By CATALASE Method
- By GSH Method
- By LPO Method
- By Total Protein Method

In-Vitro Anti-inflammatory Assays

- By Protein Denaturation Assay
- By Heat Induced Hemolysis Method
- By Bovine Albumin Fraction Method
- By HRBC Membrane Stabilization Method
- By Proteinase Inhibition Method

In-Vitro Antidiabetic Assays

- By Alpha Amylase Inhibition Method
- By Glucose Uptake Method
- By Anti-glycation Method
- By Glucosidase Inhibition Method

In-Vitro Microbial Assays

- Antibacterial/Antifungal activity by agar well plate method
- Antibacterial/ Antifungal activity by Disc Diffusion Method
- Minimum Inhibitory Concentration (MIC) Determination
- Minimum Bactericidal Concentration (MBC)/Minimum Fungicidal Concentration (MFC) Determination
- Antibiofilm Activity by 96 Well Plate Method

Anti-Malerial Assays

- By Beta Hematin inhibition by Uv-Spectroscopy Method
- By Beta Hematin Inhibition by FTIR Method

Anti-HIV Assay

- By Putative Method
- By Pepsin Inhibition Method

Anti-obesity Assays

- By Lipase Inhibition Method
- By Cholesterol Inhibition Method

Anti-TB Assay

- By Almar Blue Method

Anti-Ulcer Assay

- By H+/K+ ATPase Inhibition Method
- By Urease Inhibition Method
- By Na+/K+ Neutralization Method
- By Microbial Method
- By Cell line Method

Anti-Helmintic Assay

- Anti-helmintic activity by using different types of Parasites

Analytical Services

- UV-Vis Spectroscopy
- FTIR (Fourier Transform Infra-Red Spectroscopy)
- Particle Size (Nano size)
- Particle Size (Micron size)
- Zeta Potential
- HPLC
  - Purity Analysis per dose
  - Assay of tablet or capsule
  - Method development and validation for dissolution assay
- Dissolution study
- Disintegration study
- Flame Photometry (Na^+ / K^+)
- Karl Fischer titration
- Mechanical stirrer (Per hr)
- Viscosity
- Polarimetry
- Refractometer
- Photoflurometery
- XRF (X-ray fluorescence Spectrometry)
- XPS (X-ray photoelectron Spectroscopy)
- CHNS (Elemental Analysis)
- ICP OES (Elemental Analysis – Heavy Metals)
- AAS (Atomic Absorption Spectroscopy)
- GC (Purity by general method)
- GC (Purity with standard)
- GC Head Space – Solvent
- BET Surface Area
- GCMS (Gas chromatography–mass spectrometry)
- DSC (Differential Scanning Calorimetry)
- Flash chromatography
- NMR (Nuclear Magnetic Resonance) (Solvent: Methanol, CDCl3, DMSO, D2O)
- MS (Mass Spectrometry)
- AFM (Atomic Force Microscopy)
- TEM (Transmission Electron Microscopy)
- GPC (Gel Permeation Chromatography)
- LCMS (Liquid chromatography–mass spectrometry)

- SEM EDX / FE SEM EDX (Elemental Analysis)
- FE SEM (For Nano Size)
- XRD (X Ray Diffraction) – Powder
- SEM (For Micron Size)
- HPTLC
- Water analysis
- Lyophilizer
- High speed homogenizer

Phytochemical Analysis

Extraction of Plant Powder

- By Soxhlet Method
- By Maceration Method
- By Sonication Method

Extraction of Essential oils by Hydro-distillation

Phytochemical Tests (Qualitative and Quantitative)

Isolation of Phyto-constituents

Characterization of Phyto-constituents

Microbiology

Isolation of Microorganisms

Identifications of Microorganisms

- 16s rRNA
- 18s Rrna

Molecular Biology

Isolation of DNA

Polymer Chain Reaction (PCR)

Molecular Docking

Nanotechnology

Synthesis of Nanoparticles / Nanodots / Nanofibers

- By Biosynthesis Method
- By Chemical Synthesis Method
- By Green Synthesis

Characterization of Nanoparticles

Formulation of Nanogels

Invitro Drug Release

Research Trainings

- Hands on Research Training in Animal Tissue Culture
- Hands on Research Training in Biomedical Science
- Hands on Research Training In Molecular Biology
- Hands on Research Training in Advanced Microscopies
- Hands on Research Training on ELISA Techniques

Learn By Passionate Experts

Mr. Masidd Khalate
Founder and Director

Dr. Mohmed Karobari
Advisory Member

Dr Shaeesta Bhavikatti
Advisory Member

Dr. Padma Dandge
Advisory Member

Ms. Chandani Jamdade
Advisory Member

Dr. Sanjay Harke
Advisory Member

Mr. Nilesh Wadkar
Advisory Member

Dr. Avinash Raut
Advisory Member

Dr. S. Johnson Samuel
Advisory Member

Mr. Alfredi Moyo
Advisory Member

Dr. A. U. Sutar
Advisory Member

Mr. Yasin Mulani
Head, Department of Manufacturing

Innovate with Us

F2, Shivshakti Plaza, Pujari plot, Near old Mumbai Ice cream, Vishrambhag, Sangli

+91 72193 44262

infinitebiotech6@gmail.com

www.ibir.in