

**BIODEAVOUR**

# **SERVICE CATALOGUE**

**2025-2026**



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# MICROBIOLOGY



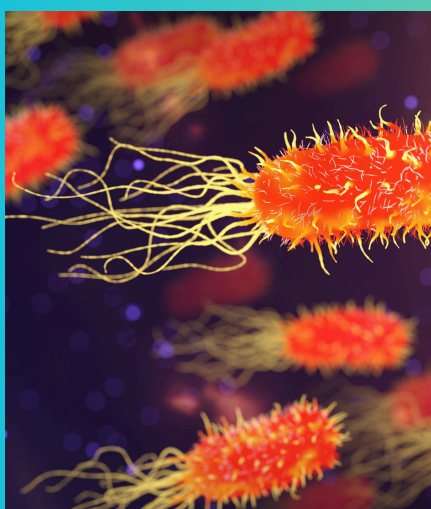
## IN-VITRO ASSAYS

- Anti-bacterial activity
- Anti-fungal activity
- Antibiotic Susceptibility testing
- Minimum Inhibitory Concentration (MIC) Testing
- Minimum Bactericidal Concentration (MBC) Testing
- Total Plate Count Assay
- Growth Kinetics Study
- Morphology and Biochemical Analysis
- Isolation and Screening Industrial Important bacteria and fungi



## ENZYME ASSAYS

- Different enzyme production from bacteria and fungi (Lipase, Amylase, Chitinase, Pectinase, Cellulase, xylanase, phytase)
- Enzymatic activity assay
- Optimization of enzyme production
- Purification of enzyme from bacteria and fungi
- Characterization of purified enzymes



## BACTERIOPHAGE ISOLATION

- Isolation of bacteriophage
- Host selection
- Purification of bacteriophage
- FESEM Analysis of purified bacteriophage

# NANOTECHNOLOGY



## NANOPARTICLE SYNTHESIS

- Silver
- Copper
- Gold
- Zinc
- Titanium
- Carbon nanotubes
- Mesoporous Silica Nanoparticles
- Beta-Cyclodextrin
- Chitosan nanoparticles



## CHARACTERIZATION STUDIES

- UV-VIS Analysis
- FT-IR
- XRD
- FESEM-With and Without EDAX
- TEM ANALYSIS
- Zeta Potential and Particle Size Analysis
- Thermal Gravimetric Analysis (TGA)
- Differential Scanning Calorimetric (DSC) Analysis
- XPS
- Electrospinning



## DRUG LOADING ASSAYS

- Determination of drug release assay
- Determination of encapsulation efficiency
- Determination of optimum pH for drug loading
- Determination of stability testing

# HERBAL TECHNOLOGY



## EXTRACTION OF PHYTOCOMPOUNDS

- Extraction of flavonoids, saponins, alkaloids, polyphenols
- Extraction of phytochemicals from plants by different methods

1. Maceration
2. Soxhlet Extraction
3. Decoction
4. Percolation



## QUALITATIVE ANALYSIS

- Flavonoids
- Anthocyanins
- Tannins
- Steroids
- Polyphenols
- Saponins
- Coumarins
- Cardiac glycosides
- Quinones
- Carbohydrates
- TLC Analysis



## QUANTITATIVE ANALYSIS

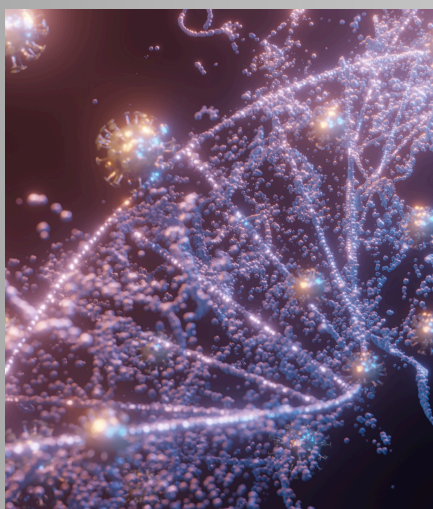
- Total Flavonoid Content
- Total Polyphenol Content
- Total alkaloid Content
- Total Saponin Content
- Total Tannin Content
- Total Terpenoid Content
- GCMS Analysis

# BIOINFORMATICS



## GENOMICS

- 16S rRNA / 18S rRNA / ITS Sequencing and Data Analysis
- Whole Genome Sequencing and Data Analysis
- Gene Sequencing
- Real Time PCR Analysis
- Metagenomics and Data Analysis



## PROTEOMICS

- Whole transcriptomics Sequencing
- Whole Exome Sequencing
- Differential Gene Expression Analysis
- In-Silico Microbial Proteomic Analysis
- In-Silico Mutational Analysis
- In-Silico Pharmacophore Modelling
- Network Pharmacology Analysis
- In-Silico Protein Characterization Studies
- Metabolomics Studies



## DRUG DISCOVERY

- Designing of Ligands
- Screening of Ligands
- ADMET and Drug-likeness Prediction
- Protein Structure Prediction and Optimization
- Molecular Docking
- IC50 Calculation
- Protein-Ligand Docked Complex Visualization
- MD Simulation for 100 and 200 ns