

WATER ANALYSIS

TDS
Turbidity
pH Value
Alkalinity
Chloride
Calcium
magnesium
Iron
Nitrate
Sulphate
Phosphate
Silica
COD
BOD
Phosphate

MINERAL ANALYSIS

Iron
Phosphorus
Calcium
Magnesium
Copper
Selenium
Manganese
Cobalt
Molybdenum
Sodium
Potassium
Nitrogen
Zinc

SEPARATION TECHNIQUES

COLUMN CHROMATOGRAPHY PREPARATIVE TLC PURIFICATION

Amino acids/Peptides
Pigments
Carbohydrates
Lipids
Phyto chemicals
Vitamins

PROTEIN ANALYSIS

Protein isolation
Amino acid isolation
Protein estimation
Amino acid estimation
Qualitative analysis
SDS-PAGE
Native gel electrophoresis
Immuno electrophoresis
Gel documentation
Enzyme assay and Kinetics
TLC analysis-peptides, Amino acids
Preparative TLC-Peptides, Amino acids

ANALYTICAL METHODS

pH meter
Moisture (KFT)
Moisture (IR)
Viscometer
Polarimeter
Bulk density
Moisture oven
Analytical balance
Centrifuge
Microscope
Roteva
Gel doc
Melting point
UV-VIS Spectrophotometer
FT-IR
HPLC
NMR
GC-MS
LC-MS

MOLECULAR BIOLOGY

IMMUNOHISTOCHEMISTRY

DNA isolation (Plant, Fungi and Bacteria)
RNA isolation (Plant, Fungi and Bacteria)
DNA estimation
RNA estimation
Agarose gel electrophoresis
Restriction Digestion
Mapping and ligation
SEM
Flow cytometry analysis
Bacterial Transformation and cloning
Blue/white Screening
PCR cloning
RFLP
Nested PCR
Colony PCR
Site Directed Mutagenesis

OUR SPECILIZATION

- **Training**
- **Workshop**
- **Projects/Dissertations**
- **Projects or Research Analysis**
- **Contract Research**
- **Journal Publication**

Molecular Biology Teaching kits



**REFSYN SERVICES
CATALOGUE**

Communication Address

Refsyn Biosciences Pvt Ltd.,
No.28, Third cross street,
Natesan nagar (west) Puducherry-605005.
0413-2200273, 9488232274/75.
www.refsynbio.com; www.refsynjournals.com
E.Mail:refsynbpl@gmail.com, info@refsynbio.com ,
ijipbart@gmail.com

PHYTOCHEMICAL ANALYSIS (Herbal Analysis)

Oven dry
Cold extraction
Hot extraction
Soxhlet extraction
Concentration by Rotava
Phytochemical screening
Quantitative estimation

- * Tannin
- * Saponins
- * Phenol
- * Flavonoids
- * Terpenoids
- * Glycoside

Purification of bioactive compounds
TLC analysis of Bioactive compounds
Antimicrobial activity and MIC
Fluorescence analysis
Characterization of Bioactive compounds
Purity analysis

ANTIOXIDANT ACTIVITY Non-Enzymatic

DPPH
FRAP
PMA
Hydroxy radical
Hydrogen peroxide
Metal chelating
Total antioxidant assay
Nitric oxide scavenging activity

Enzymatic

SOD
Polyphenol oxidase
Ascorbate oxidase
Catalase
Hydrogen peroxidase
Oxidative damage of DNA-yeast as model
Antioxidant activity-TLC

CELL CULTURE FACILITY (Mammalian Cell Lines)

Transfection
Anti-cancer activity (MTT)
Cytotoxic assays
Cell differentiation
Proliferation
Cell adhesion
Morphological Studies
Anti-diabetic activity
Antioxidant analysis
Dual staining
Hoechst staining
Flourescence microscopy

BIOINFORMATICS

Identification of bacteria and fungi
Gene sequencing
Primer Designing
Annotation and computational biology.

GENE EXPRESSION STUDIES

mRNA quantification - RT-PCR
microRNA quantification
Hypermethylation studies

MICROBIOLOGICL ANALYSIS

TBC/TMV
Serial dilution
Biochemical test
Microscopic observation
Antibacterial activity
Antifungal activity
MIC
Petite mutant with Yeast
Broth Dilution Assay
Bioautography-TLC
Antibiotic sensitivity test
Fermentation upstream processing
Fermentation down stream processing

PROXIMATE ANALYSIS

Moisture
Ash
Acid soluble ash
Acid insoluble ash
Water soluble ash
Water insoluble ash
Crude fiber
Reducing sugar
Carbohydrate
Fat
Protein
Energy value

LIPID ANALYSIS

Qualitative analysis
Total fatty acids
Fatty acids by TLC
Acid value
Saponification value
Fatty acids-GC-MS

PIGMENTS

Pigments-TLC
Beta carotene
Chlorophyll
Lycopene
Lutein
Total carotenoids
Anthocyanin
Betacyanin
Column purification
Purity-HPLC

VITAMIN ANALYSIS

Vitamin A
Vitamin B1/Thiamine
Vitamin B2/Riboflavin
Vitamin B3
Vitamin B6/Niacin
Vitamin B12
Vitamin C/Ascorbic acid
Vitamin D
Vitamin E
Vitamin K
Folic acid
TLC analysis-vitamins