



ARMATS BIOTEK

SERVE HUMANITY THROUGH SCIENCE

TRAINING AND RESEARCH INSTITUTE (ABTRI)



ARMATS ANALYSIS SERVICE FOR RESEARCH SCHOLAR AND STAFF

A. NATURAL PRODUCT CHEMISTRY

- *Extraction*
 - a) Maceration technique
 - b) Soxhlet Extraction
 - c) Essential oil extraction
- Flavonoid estimation
- Phenol estimation
- Tannin estimation
- Carbohydrate estimation
- Protein estimation
- Saponin estimation
- Phytochemical analysis (Qualitative)
- Antibacterial activity
- Antifungal activity
- Anti-diabetic
- Anti-inflammatory
- TLC
- GC-MS
- LC-MS
- HPLC
- H¹- NMR
- C¹³ –NMR
- XRD (single compound)



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B. CHARACTERIZATION STUDIES

- XRD(powder extract)
- SEM
- TEM
- FTIR
- Zeta potential
- Column chromatography
- Cell line studies (cancer cell line)
- MTT Assay
- Cancer cell line
- Diabetic cell lines
- HePG2,MCF7, HT-29, HEK-293-Cytotoxicity Assay
- Molecular Separation Techniques
- Isolation and Purification of Plasmid DNA And Genomic DNA



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C. FOOD AND NUTRITION

- Vitamin C
- Nutritive analysis
- Proximate analysis
- Energy
- Carbohydrate
- Fat
- Crude fiber
- Protein
- Mineral analysis
- Iron
- Calcium
- Phosphorus
- Potassium
- Sodium
- Zinc
- Nitrogen
- Microbial loads
- Microbial analysis in food sample
- Nutrition and Composition analysis
- Total fiber and ash content of food industry
- Total lipid content of food sample
- Food adulteration in food samples
- Food processing (Q.A & Q.C)
- Food preservation techniques
- Biochemical Analysis in Food
- Quality control analysis for Drinking water and food sampling
- MBRT test in milk sample

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D. MICROBIAL ANALYSIS

- Plating (spread, pour, streaking)
- Staining techniques (simple, gram, spores, acid fast, LPCB-fungi)
- Motility(wet mount, hanging drop method)
- Bio chemical test (IMVIC, catalase, oxidase, etc.)
- Antimicrobial activity (bacteria, fungi)
- Soil test
- Water test
- Liquid & solid state fermentation for enzyme production
- Production of bioactive secondary metabolites
- MPN test
- Optimization study
- Marine microbial analysis
- Enzyme techniques
- PGPR activities
- MIC
- MBC



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E. MOLECULAR ANALYSIS

- Isolation of DNA (bacteria, fungi, actinomyces, plasmid)
- PCR amplification
- RT-PCR
- Sequencing of 16s rRNA gene (bacteria, fungi, actinomyces, plasmid)
- NCBI blast analysis
- Protein Precipitation(Salt/Solvent/Acid)
- Protein estimation
- SDS-PAGE analysis (CBB/silver staining)
- Proximate Analysis
- Intracellular And Extracellular Protein Extraction From Microbial, Herbal Plants And Animal proteins extraction
- Ion Exchange Column Chromatography For Protein
- UV –visible spectrum studies
- DNA bar coding (animals, plant, fungi, insect)
- Gene expression analysis by real time PCR
- DNA finger printing (RAPD, PCR-RFLP, AFLP)

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