

SERVICE **BROCHURE** 



2023

ALLELE LIFE SCIENCES (P) LTD



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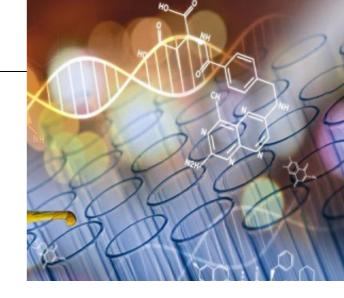


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## New strategic solution generate significant performance





### **OBJECTIVES**

Allele Life Sciences provides a comprehensive suite of analytical, research and consulting services. These services are ideal for the testing of a full range of products and materials. Our experience in isolation of reference standards, reference material development, and analytical testing has resulted in a team of Molecular Biologist, BioChemist, Analytical Chemists and Pharmacognosists.



### **SCIENTIFIC ADVISORY**

Allele Life Sciences believes that Human resources are the most important resources of the organisation and hence we strive hard to engage best people in the industry for serving our clients. Our experienced Scientific Advisory work as a mentor for the in-house technical staff for various activities. Our project management staff ensures that the best-qualified laboratory professional coordinates each job.



### **MISSION**

Our Mission at Allele Life Sciences is to offer innovative and exceptional analytical process and methodologies that help industries & organisations of all sizes to achieve predictable, improved product quality level and cost associated with testing integrity requirements.



Our Management is committed to adopt good Professional Practices, maintain quality of services, achieve quality objectives, compliance of quality system requirements Ensure that all concerned personnel are aware of quality system requirements, policies and procedures. We maintain confidentiality of data at the highest priority.

### **RACHNA SINGH**

Allele Life Sciences Private Limited



### **SERVICES HIGHLIGHTS**

### **Molecular Biology Services**



- Sequencing Services
- PCR & Real Time PCR Services
- Gene Cloning
- Genotyping Services
- Epigenetic Analysis
- Microbiome Analysis
- Nutrigenomics Analysis
- Plant Genomics

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### **Protein Chemistry Services**



- Protein Purification
- Protein Analysis
- Peptide Synthesis
- Peptide Modification
- Peptide Labelling
- Antibody Purification
- Enzyme Production
- Enzyme Analysis

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### **Biological Assay Services**



- In-Vitro Cell Assay
- Microbial Assay
- Antioxidant Assay
- Oxidative Stress Assay
- Toxicity Assay
- Nanotechnology Assay
- Bio-Chemical Assay
- Immunology Assay

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### **Analytical Testing Services**



- HPLC Analysis
- GC Analysis
- Mass Spectrometry Analysis
- Vitamin Analysis
- GMO Analysis
- Allergen Analysis
- · Trace Analysis
- Amino Acid Analysis

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### GENOMICS SERVICES

### HIGHLIGHT

- Sequencing Services
- PCR & Real Time PCR Services
- Gene Cloning
- Genotyping Services
- Epigenetic Analysis
- Microbiome Analysis
- Nutrigenomics Analysis
- Plant Genomics



## SEQUENCING SERVICES

### At a glance

We provide services for Primer Optimized **PCR** Sequencing, purification amplification, and fragment analysis. The value for our service is conveyed through affordable prices and fast turnaround, stringent quality control, prompt tech support and convenient primer synthesis. We provide our best for a reliable and satisfying experience for our customers

### **Sequencing Services**

DNA Sequencing:

- Whole Genome Sequencing
- Whole Exome Sequencing
- De-novo Sequencing
- · Genotyping By Sequencing

### **RNA Sequencing:**

- · Whole Transcriptome Sequencing
- · Small RNA Sequencing
- · Long Non-coding RNA
- Isoform Sequencing

### Microarray:

- · Gene Expression
- · Copy number variation
- miRNA profiling
- Custom



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### **SANGER SEQUENCING**



- · Fragment Analysis
- · Microsatellites Analysis
- · SNP & Mutation Detection
- · Chromosomal insertion and deletion
- 16S Microbial Identification

### **NEXT GENERATION SEQUENCING**



Next-generation sequencing (NGS) is a massively parallel sequencing technology that offers ultra-high throughput, scalability, and speed. NGS capture a broader spectrum of mutations in genome.



DNA Sequencing



RNA Sequencing



**Epigenetic Sequencing** 

### **ADVANTAGE**





### **Cost Effective Solutions**

Our team of professionals is capable of developing innovative and **cost-effective** solutions in scientific research.



### **Quick Turn-around**

Accelerated turn-around time guarantees that you will get your results as mentioned in contract.



### **Technical Support**



Our professional team of molecular biologists, geneticists and specialists in bioinformatics has significant experience in all varieties of real time pcr applications.

### Food PCR Analysis

PCR Food testing identifies major pathogens by detecting the organism's DNA. This extremely rapid, accurate testing technology can detect bacterial organism per sample in few hours.:

- FOOD PCR Multiplexing
- Food Analysis by Q-PCR
- Allergen Analysis
- GMO Testing
- · Microbial Identification

### **PCR SERVICES**



- Analysis by RAPD, RFLP PCR, SSR / ISSR PCR
- G.M.O Detection
- Identification of animals by COI and 16S rRNA amplification
- Identification of invertebrates by universal primer (LCO 1490 & HCO 2198) amplification and Sanger Sequencing

### **REAL TIME PCR SERVICES**



.Our facilities equipped with a broad selection of PCR and qPCR instruments from leading manufacturers, including fast cyclers, High Resolution Melt (HRM) cyclers, and high throughput instruments.



Real Time PCR
Plate run



microRNA & Noncoding RNA Analysis



Protein Analysis By Q-PCR

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### Technical Support



Genome editing is widely used in within the biotech industry to help improve the effectiveness of engineering. We provide comprehensive tools and services including ready-to-use sgRNA synthesis, sgRNA vector construction, CRISPR sgRNA library synthesis and genome editing services

### Other Services

- Knock-out of single or multiple target sequences
- Site-mutation knock-in and gene tag knock-in
- Screening for single positive clones
- Cell expansion and validation
- Custom gRNA cloning service
- Custom Donor Vector Construction

### **CLONING SERVICES**



Our molecular biology experts can bundle gene synthesis with cloning into your choice of vector. Our cloning services includes TA cloning, cloning of full length cDNA or PCR products, synthetic genes or subcloning of vector inserts.

### **CRISPR/CAS9 GENE EDITING**



CRISPR/Cas9, is an RNA-guided genome editing tool which allows researchers to do gene knockout, knock-in SNPs, insertions and deletions in cell lines and animals.



Design & Synthesis SgRNA



SgRNA Validation by Cell Based or Cell Free



CRISPR Off-Target Effects Analysis

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The genotypic information is used for plants ,Microbial,insects, animal identification and forensic analysis. Gene expression services like NGS sequencing, DNOur services include SSR, RAPD, SNP, and RFLP, Barcoding based methods to fingerprint (genotype) individuals. The genotypic information is used for plants Microbial, insects, animal identification and forensic analysis.

### **DNA Barcoding**

Identification of species through COI region based molecular identity. We provide ~500 bp sequence data, Phylogenetic Tree and 10 nearest neighbour information . Species Identification | Molecular Identification Sea Food

**OUR SOLUTIONS :** We undertake the whole project for genotyping services

- Microsatellite Analysis DNA Barcoding
- Copy Number Variation Analysis
- DNA sample identification



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### **GENOTYPING SERVICES**



- PCR based Analysis RAPD, SSR, ISSR
- Sequencing based analysis SCAR marker Analysis
- Non PCR based Analysis RFLP
- QTL Analysis
- · DNA Barcoding

### **GENE EXPRESSION**



Gene expression services like NGS sequencing, DNA microarrays, PCR and RT-PCR or multiplex technologies, as well as highly complex data analysisA microarrays, PCR and RT-PCR or multiplex technologies, as well as highly complex data analysis



RNA-Seq by Next Gen Sequencing



Gene Expression by Q-PCR



Analysis By Microarray

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### **Technical Support**



Methylation analysis is the study of chromosomal patterns of DNA or histone modification by methyl groups, which is a chemical post-replicative modification affecting CG dinucleotides, in which a methyl group (CH3) is added to these dinucleotides in a covalent manner . The cytosine (C) base in DNA and lysine residue in histone tails can be methylated.

### Analysis By HPLC

Bisulfide Modification and Methylation HPLC Analysis:

We provides efficient and accurate methylation analysis services through HPLC analysis. Bi-sulfite treatment allows to explore methylation levels of genomic DNA. Non-methylated cytosine are converted to uracil and then to thymine. Sequencing and mapping to adequate read depth allows to detect the level of 5mC (5-methylcytosine) on DNA molecules / PCR Products

**Methylation Analysis by ELISA** by using highly specific antibodies to target epigenetic markers



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### **EPIGENETIC SERVICES**



- COMET Assay
- Methylation Analysis by PCR
- Methylation Analysis by Sequencing
- · Analysis by HPLC by estimation of 5-mC or 5-hmC
- Methylation Analysis by ELISA (measurement of 5-mC or 5-hmC)

### **DNA METHYLATION ANALYSIS BY SEQUENCING**



**Methylation Specific PCR:** Methylation-specific PCR is one of the most commonly used methods for gene/sequence-specific detection of DNA methylation. The DNA undergoes bi-sulfite conversion of cytosine to uracil and then the methylated sequences are selectively amplified with primers specific for methylation and sequencing.

In Whole Genome Bisulfide Sequencing - Bi-sulfite conversion PCR primer design PCR amplification optimization Library preparation QC of final libraries (DNA concentration, analysis of the profile) Sequencing on Illumina platform

### **ADVANTAGE**





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### **Technical Support**

### MICROBIOME ANALYSIS SERVICES

### At a glance

We provide metagenomics services for Biotech , Environmental , Medicine , Agriculture , Bio-Energy Microbial Forensic Research. Metagenomics is the study of genomic content in a complex mixture of microorganisms. The primary goals of Metagenomics are to characterize the organisms present in a sample and to identify what roles these organism may have within a specific environment

### Microbial Analysis

- Metagenomic Analysis: We provide microbial identification services for research projects. We analyse a diverse variety of samples and sample matrices.
- 16S rDNA based molecular identity ||
   RFLP based molecular protocol ||
   Identification of bacteria in a
   consortium || Phylogenetic Tree

### **MICROBIOME ANALYSIS**



- 16S/18SrRNA Sequencing
- ITS Sequencing
- Shotgun Metagenomic Sequencing
- Meta Transcriptome Sequencing
- WGS- Metagenome Sequencing
- Difficult DNA Templates Sequencing
- Primer Walking Service
- Target Region Sequencing
- Nextgen Sequencing



Analysis by Sanger Sequencing



Analysis by Next Gen Sequencing



Analysis by Shotgun Sequencing

### **ADVANTAGE**





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A relatively new scientific discipline, nutrigenomics focuses on the relationship between genes, nutrition and health.Nutrigenomics is the study of how genes and nutrients interact. Gene variants predict how an individual's body will respond to certain nutrients. The understanding of the role of nutrients on DNA stability, repair and gene expression processes recently became more prominent in nutritional science.

### **Nutrigenomics For**

- · Diet-Disease Interaction
- · Study of Nutrigenetic Diseases
- · Study of Chronic Disease
- Cancer
- Weight Management
- Diabetes
- · Cardiovascular Disease
- Oxidative Stress
- GMO Analysis

### **GENETIC ANALYSIS**



- · Genetic studies by genetic markers
- Gene Guided Nutrition Interventions
- Microbiome studies
- Epigenetic studies
- miRNA profiling.
- · Comprehensive nutritional profile based genomic assessment

### **FUNCTIONAL ANALYSIS**



- Metabolic Analysis Profile
- Amino Acids Analysis
- Vitamin Analysis
- Carbohydrate Analysis
- Protein Analysis
- Allergen Analysis
- Essential Metabolic Fatty Acids Analysis
- Oxidative Stress
- Elemental Analysis

### **ADVANTAGE**





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## PLANT GENOMIC ANALYSIS

### At a glance

Molecular markers are the important tool for plant population studies. Plant genomics allows scientists to analyse thousand of genes in parallel, to understand the genetic architecture of plant genomes and also to isolate the genes responsible for mutations. Plant genome sequencing technologies enabled genome-scale analyses of a rapidly growing number of plant pathogen species.

### Plant Analytical Services

- Hormone Analysis by HPLC
- Plant Pathogen ELISA Analysis
- Plant Metabolite Screening by HPLC & Maas Spectrometry
- Phytochrom Screening
- Pathogen traceability by sequencing

### **GENETIC ANALYSIS**



- PCR based Analysis RAPD, SSR, ISSR, SCAR marker Analysis
- QTL Analysis
- . Microsatelite Analysis DNA Barcoding
- Transcriptome based Analysis by Q-PCR
- · Gene Expression Analysis by Q-PCR

### **SEQUENCING ANALYSIS**



- · Whole genome sequencing
- · Transcriptome sequencing
- SNP array & NGS-based genotyping
- Environmental DNA & microbiome screening
- · Gene Expression Profiling

### **ADVANTAGE**





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## PROTEIN CHEMISTRY SERVICES

### HIGHLIGHT

- Protein Purification
- Protein Analysis
- Peptide Synthesis
- Peptide Modification
- Peptide Labelling
- Antibody Purification
- Enzyme Production
- Enzyme Analysis





Protein purification is a crucial step for projects involving research on structural and functional properties. The quality of the protein cannot be compromised. A successful protein purification relies on optimised purification protocols. Depending on the requirements and nature of the protein, targeted purification protocols can be developed at in house lab facility.

### Purification Services

- Protein expression in Cell
- · Bacterial expression
- Mammalian Cell expression
- Protein purification to near homogeneity (purity >90%)
- Poly His Tag protein purification
- GST protein purification
- HPLC purification
- HPLC Analysis
- · Expression systems with tag
- Purified proteins with Endotoxin level < 0.01EU/µg</li>



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### PROTEIN EXTRACTION SERVICES



Protein extraction is a crucial for various protein assays. Below, Our scientists have optimised protocol for a wide range of tissues, including tips to preserve the integrity of the proteins in your samples and achieve optimal yield. We provide high-quality protein isolation and extraction services for research applications.

### PROTEIN PURIFICTION SERVICES



.Our facilities equipped with a broad selection of protein purification Chromatography instruments from leading manufacturers, including different size or volume of protein purification columns and media for purification.



Ion Exchange Chromatography



Affinity Chromatography



Size Exclusion
Chromatography

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

Accelerated turn-around time guarantees that you will get your results as mentioned in contract.



### **Technical Support**



We offer a range of protein analysis and characterisation services to characterize the identity, purity, quantity and quality of your protein. Our tools include electrophoresis, ELISA, Iso Electric Focusing, Low Pressure Liquid Chromatography, HPLC (reverse phase, ion exchange and size exclusion), and bacterial endotoxin testing.

### **Purification Services**

- Amino Acid Analysis
- Molecular Weight Determination
- Extinction Coefficient ( A280)
- Protein Analysis (HPLC)
- Analysis By ELISA
- Spectrofluorometric characterization
- Protein Electrophoresis
- Western Blot Analysis

### **PROTEIN SERVICES**



- Protease Activity Assay (FRET Assay)
- HCP Analysis by ELISA
- Residual Host Cell Assay (qPCR)
- Protein Potency Assay by ELISA
- Cell Based Assay
- Protein Stability Assay

### PROTEIN ANALYSIS SERVICES



.Our facilities equipped with a broad selection of HPLC, Spectrophotometer, Micro Plate Reader, Western Blot, Vertical Electrophoresis, PCR and qPCR instruments from leading manufacturers.



Analysis by HPLC



Mass Spectrometry



Analysis by Electrophoresis

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

**Technical Support** 

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We are the one of the leading companies in the field of Custom Peptide Synthesis. We have state of art facility for solid phase peptide synthesis using Fmoc Chemsitry. We have most modern and sophisticated equipment's for synthesis, purification, final polishing and complete characterization of the synthesized peptides under one roof.

### **Modified Peptide**

We have an extensive range of Bioactive peptide for various research applications

- Apoptosis
- Cancer
- Diabetes & Obesity
- · Neurodegenerative Disorders
- Gastrointestinal
- Reproductive System

Bioactive peptides are quality checked by HPLC, amino acid analysis and mass spectrometry.

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### **PEPTIDE SYNTHESIS**



We provides high quality peptide synthesis at all scales from milligrams (mg) to gram (g), with a success rate well above the industry standard ( >98% ).

Every supplied peptide will have HPLC and Mass Spectrometery data with Certificate of Analysis to confirm purity and identity. Outstanding yields for quantity and purity are achieved using the latest Fmoc-solid phase synthesis technologies.

- Linear peptides (acids, amides, alcohols)
- Constrained peptides
- Cyclic peptides
- · Peptides with D-amino acids
- Peptides with unnatural amino acids
- Branched peptides
- Multiantigenic peptides (MAPs)
- Phosphopeptides

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

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### **Technical Support**



We offer a wide range of peptide modifications to meet any research need. These modifications can improve overall peptide stability, alter structure to better understand biological function, or enhance immunogenicity for antibody development and production. In addition to a variety of terminus and internal modifications

### Peptide Modification

- We have an extensive range of modified peptide for various research applications peptide for various research applications
- Apoptosis
- Cancer
- Diabetes & Obesity
- Neurodegenerative Disorders
- Gastrointestinal
- Reproductive System

Bioactive peptides are quality checked by HPLC, amino acid analysis and mass spectrometry.



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### PEPTIDE MODIFICATION



- N-terminal Biotinylation, Acetylation, Methylation, Formylation,
   Succinylation,
- Dimethylation, Acylation (Fatty acids), etc.
- · C-terminal Amidation, NHS, etc.
- · Internal Acetyl, Methyl, etc.
- Non-standard residues

We have most modern and sophisticated equipment's for synthesis, purification, final polishing and complete characterization of the synthesized peptides under one roof. Every supplied peptide will have HPLC and Mass Spectrometery data with Certificate of Analysis.



Analysis by HPLC



Mass Spectrometry



Amino Acid Analysis

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

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### **Technical Support**



Peptides can be tagged with various fluorescent dyes at various positions. Fluorescent labeling of peptides. We .offer a wide variety of fluorescent labeling services, which includes expert technical advice on the selection of correct fluorescent labels for your applications. We have most modern and sophisticated equipments for synthesis,. Every supplied peptide will have excitation and emission data with Certificate of Analysis.

### Peptide Conjugation

- HRP
- Alkaline Phosphatase
- KLH (Keyhole Limpet Haemocyanin)
- BSA (Bovine Serum Albumin)
- OVA (Ovalbumin)
- · Any other carrier protein of choice

### **PEPTIDE LABELING**



- Fluorochromes FITC, Cy5, pNA, AMC, Lissamine Rhodamine B, NBD, Alexa Fluor, Texas Red etc.
- Enzymes HRP, ß-galactosidase, Alkaline Phosphatase etc.
- Biotin
- Avidin
- Dabcyl, Dansyl, etc.
- Multiple labeling for FRET



Analysis by HPLC



Mass Spectrometry



Amino Acid Analysis

### **ADVANTAGE**





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We offer a variety of methods for antibody purification from serum, ascites, and culture supernatants. We use a variety of methods for purification of antibody from serum, ascites, and culture supernatants including ammonium salt precipitation, ion exchange and size exclusion chromatography, IMAC, GST, Protein A, and Protein G affinity chromatography, and custom affinity chromatography.

### **Antibody Labelling**

Any antibody / Fab / F(ab')2 conjugation / labeling with:

- Fluorochromes-FITC, AMCA, Alexa
   Fluor, pNA), Lissamine Rhodamine B
   (LRB), Cyanine (Cy2),
   Indocarbocyanine (Cy3),
   Indodicarbocyanine (Cy5), Texas
   Red (TR), etc.
- Dabcyl, Dansyl, etc.
- Multiple labeling for FRET
- Enzymes HRP, ß-galactosidase, Alkaline Phosphatase etc.
- Biotin
- Avidin / Streptavidin
- Keyhole Limpet Haemocyanin (KLH)
- Bovine Serum Albumin (BSA)
- Ovalbumin (OVA)



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### **ANTIBODY PURIFICATION**



- Affinity purification permits isolation of antibodies against the immunizing antigen, thereby eliminating cross-reactivity that would be present in unpurified serum. Antibodies of extremely high purity and specificity can be obtained by using custom affinity chromatography.
- Protein A, G, and A/G Purification
- High yields of pure IgG can be obtained in a single-step purification using Protein A affinity chromatography, which differ in their ability to bind antibodies



Purification by
Affinity
Chromatography



Purification by lon-Exchange Chromatography



Purification by Size Exclusion Chromatography

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### **Technical Support**



Enzyme production has gained popularity due to its extensive applications in traditional and modern industrial sectors. Our experienced scientific experts provide enzyme production & Optimization, customized recombinant enzyme expression and purification services according to your specific project requirements.

### **Enzyme Services**

- Submerged Fermentation
- Solid State Fermentation
- Purification by Affinity Chromatography
- Purification by HPLC
- Purification by Ion Exchange Chromatography
- Purification by Size Exclusion Chromatography

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### **ENZYME PRODUCTION**



Enzymes are proteins that act as catalysts in living cells, thus they speed up the rate of a specific chemical reaction in the cell. Enzyme catalysis is a reaction that happens in almost all the metabolic processes in the cell. Most enzymes are proteins but some of them are catalytic RNA molecules called ribozymes. Enzymes increase the rate of a reaction by decreasing its activation energy.

- Microbial Analysis Total Plate Counts, Yeast & Molds, Coliforms, Antibiotic Activity
- Identification of microbial strain with 16s, 18s or 23s rDNA Analysis
- In-silico Enzyme kinetics Vmax, Kd, KM, kcat, k1, and k-1
- · Screening of Substrates, Inhibitors, and Other Ligands
- Enzyme Production and Optimisation
- Enzyme Expression: Gene identification, synthesis and cloning
- · Identification and optimization of enzyme expression conditions
- Enzyme Purification
- Endotoxin removal

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Technical Support**



Our laboratory conducts routine enzyme analysis for a variety of enzymes. Enzymes can be a beneficial additive to animal feeds and in human dietary supplements. Their use as digestive aids and metabolic catalysts is becoming increasingly more common in a variety of applications.

### Services

- Textile Enzymes
- Industrial Enzyme
- Pharmaceutical Enzyme
- Food Enzyme
- Cosmetics
- · Bio Agriculture

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### **ENZYME ANALYSIS**



- Enzyme Activity Assay
- Measurement of enzyme concentrations by ELISA & BCA Assay
- Assessment of enzyme purity by SDS-PAGE & HPLC
- Molecular weight determination by SDS-PAGE & Western Blot
- Kinetics study of enzyme Amino-terminal sequence analysis
- Activity Measurement
- General Enzyme assays (Amylase, Protease, Pectinase, Cellulase, Chitinase etc)
- Enzyme kinetics
- Enzyme immobilisation
- Impurity Analysis- Endotoxin & Mycotoxin level
- · Inhibitors and activators characterisation



Purification by Affinity Chromatography

2



Purification by Affinity Chromatography



Purification by Affinity Chromatography

### **ADVANTAGE**



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### **Technical Support**



## BIOLOGICAL ASSAY SERVICES

### HIGHLIGHT

- In-Vitro Cell Assay
- Microbial Assay
- Antioxidant Assay
- Oxidative Stress Assay
- Toxicity Assay
- Nanotechnology Assay
- Bio-Chemical Assay
- Immunology Assay





Cell-based assays are a vital early step in the testing of your compounds and drug candidates for activity. Tests under in vitro conditions are carried out in cell culture. These tests allow the study of biological functions and phenomena: each type of test corresponds to a function or mechanism. This applies in particular to cell migration, viability or immune response. Existing tests are adapted according to projects. Outsourcing cell assays is an affordable and proven method for life science and pharmaceutical research.

### Cell Based Assay

### **Apoptosis Assay:**

Apoptosis plays a crucial role in physiological processes, and several human diseases such as cancer are characterized by its deregulation.

### ROS Assay:

Reactive oxygen species are unstable molecules, which can damage DNA, RNA and proteins, and even cause cell death but at the same time play an important role in regulating cellular signalling and gene expression.



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### **IN-VITRO CELL ANALYSIS**



- Cell Culture Revival of cells, Sub-culturing of cells, Cell counting,
   Cell seeding
- Cell Viability and Cell Morphology
- Cell Proliferation Assays
- Cytotoxicity Assay
- · Cell Death Assays- Apoptosis Quantification
- RT-PCR Analysis
- Gene Expression Studies

### Cell Viability Assay:

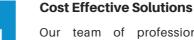
Cell-based assays and analysis are vital experimental tools in life science research and biomanufacturing. Cell viability assays can be multiplexed with other assays including cytotoxicity and apoptosis measurements.

### Cytotoxicity & Proliferation Assay:

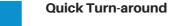
Cytotoxicity and cell proliferation assays are commonly used in the drug discovery process to assess a compound's ability to cause or block a biologic activity without having toxic effects on cells.

### **ADVANTAGE**





Our team of professionals is capable of developing innovative and **cost-effective** solutions in scientific research.



Accelerated turn-around time guarantees that you will get your results as mentioned in contract.

### Technical Support

3



We provide microbiological analysis in India. Our microbial services include the analysis of bacteria, fungi (mold), Yeast, mycotoxins, endotoxins, allergens,anti microbial efficacy and biofilm testing. Our lab is well equipped for microbiology as well as excels in molecular identification of microorganism.

### Services For

- · Microbiology Research
- Analysis of Environmental Samples
- Dentistry Sample Analysis
- Food Analysis
- · Herbal Analysis
- Water Sample Analysis
- Beverages Analysis

### **MICROBIAL ANALYSIS**



- Microbial Analysis
- · Invitro Microbial Analysis
- Minimum Inhibitory Concentration
- Minimum Bactericidal Concentration
- Antimicrobial Susceptibility Testing
- Minimum Doubling Growth Curve
- Antimicrobial Synergy Testing
- · Biofilm Analysis

### **MICROBIAL GENETICS**



- · Bacterial identification using 16S rRNA gene
- Fungal identification using ITS1- ITS2/28S rRNA region
- Algal identification using 23S rRNA
- Difficult DNA Templates Sequencing
- Primer Walking Service
- Target Region Sequencing
- Nextgen Sequencing

### **ADVANTAGE**





### **Cost Effective Solutions**

Our team of professionals is capable of developing innovative and **cost-effective** solutions in scientific research.



### **Quick Turn-around**

**Technical Support** 

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### 3



Free radicals and reactive oxygen species (ROS) are highly reactive molecules, excess production of reactive oxygen species can also lead to severe damage in the biological system. We offer various screening methods for evaluating the total antioxidant activity of compounds or extracts; DPPH, FRAP ABTS, and ORAC antioxidant assays.

### Total Groups Antioxidant Activity Assay

- · Assay for total flavonoids
- · Assay for polyphenols
- Carotenoids
- Anthocyanin

Individual Compound Activity Assay:
We offer anti oxidant activity of the compounds like; Resveratrol, Ascorbic Acid, Catechin, Carotenoids, isoquercitrin, aspalathin, Vitamin E etc.

### ▦

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### **ANTIOXIDANT ANALYSIS**



- DPPH Antioxidant Assay
- Oxygen Radical Capacity Antioxidant (ORAC) Assay
- Total Antioxidant Capacity (TAC) Assay
- Ferric Reducing Antioxidant Power (FRAP) Assay
- ABTS Assay
- Superoxide dismutase (SOD)
- Catalase
- Glutathione reductase (GR)
- Glutathione peroxidase (GPx)
- GSH / GSSG ratio



Analysis by Microplate Reader



Analysis by HPLC



Analysis by Real Time PCR

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

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### **Technical Support**



Reactive oxygen species (ROS) are chemically reactive molecules containing oxygen that play several beneficial roles for the organism. An imbalance between the production of ROS and the ability of the antioxidant systems to readily detoxify these reactive intermediates results in oxidative stress

### Total Groups Antioxidant Activity Assay

- · Assay for total flavonoids
- · Assay for polyphenols
- Carotenoids
- Anthocyanin

### Individual Compound Activity Assay:

We offer anti oxidant activity of the compounds like; Resveratrol, Ascorbic Acid, Catechin, Carotenoids, isoquercitrin, aspalathin, Vitamin E etc.



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### **OXIDADTIVE STRESS ASSAY**



- Direct Measurement of Reactive Oxygen
- Protein Damage Assay
- DNA Damage Assay
- Lipid Damage Assay

Reactive oxygen species (ROS) are chemically reactive molecules containing oxygen that play several beneficial roles for the organism. An imbalance between the production of ROS and the ability of the antioxidant systems to readily detoxify these reactive intermediates results in oxidative stress



Analysis by Microplate Reader



Analysis by HPLC



Analysis by Real Time PCR

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

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### **Technical Support**



Our team of analytical chemist and technicians offer laboratories an extensive range of modern and integrated solutions enabling them to automate their analyses whether it be for R&D, processes or quality control Our analysis help to ensure the safety of drinking water, monitor the cleanliness of wastewater and analyse soil and air contamination, all to keep our environment at its safest.

### Water Toxicity Assay

- Concentrations of harmful substances in waste
- Verification of hazardous properties
- Waste Testing
- Analysis of Preservatives
- Volatile & Semi Volatile Compound Analysis
- Trace Elements Analysis
- Heavy Metal Analysis
- Microbial Analysis

### **TOXICITY ASSAY**



- · Analytical Toxicology Studies
- Analysis of Chemicals
- · Analysis of Pesticide
- Heavy Metal Analysis
- Trace Analysis
- · Determination of toxicity levels in soils and liquids
- Industrial Effluents Analysis
- Environmental Toxicology Screening
- · Toxicology and Ecotoxicology Studies



Analysis by Chromatography



Analysis by Mass Spectrometry



Analysis by Spectrophotome try

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

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### Technical Support We offer custom of



Nanotechnology offers multiple benefits in treating chronic human diseases by site-specific, and target-oriented delivery of precise medicines.

Nanoparticles are synthesized using chemistry methods, which involve first generating the particles in a solution, drop casting the wet particles onto a substrate, and removing the solvent, surfactants, and other materials from the particles.

### Characterization of Nano Particles

- Analyze structure physical characteristics and particle size by SEM
- Internal structure, physical characteristics, particle size and elemental composition by EDX technique.
- Fluorescence Stereomicroscope
- Fluorescence Spectrometer
- Analysis by UV-Vis-Spectrophotometer
- Analysis by HPLC/ Gas Chromatography
- Analyze the functional group by FT-IR
- Zeta Potential Analysis



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### **NANOTECHNOLOGY ASSAY**



- · Synthesis Using Microorganisms / Plant Extracts / Algae
- · Sol-gel method
- Sonochemical synthesis
- · Co-precipitation method
- · Inert gas condensation method
- In-vitro Cytotoxicity Assay
- Gene Expression Assay by RT-PCR
- ROS Assay
- Oxygen Radical Capacity Antioxidant (ORAC) Assay
- Total Antioxidant Capacity (TAC) Assay
- Ferric Reducing Antioxidant Power (FRAP) Assay



Analysis by Chromatography



Analysis by Mass Spectrometry



Analysis by Spectroscopy

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

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### **Technical Support**



Biochemical assays are analytical procedures which allow the detection and quantification of cellular processes. They are a type of common procedures that help in the characterization of the target while understanding its function.

### **Bio Chemical Assay**

METABOLISM ASSAY: It enables a wide range of experimental observations including Enzymes, Oxidative stress, Liver biomarkers, Kidney biomarkers, Amino acids & proteins, Glycolysis & Carbohydrates, Inorganic ions, Lipids metabolism, Plant stress resistance, Tricarboxylic Acid (TCA) Cycle, etc

**COMET ASSAY:** DNA damage in individual eukaryote cells. It can score many different types of cell; regardless of species, cell size and level of DNA damage.

MICRONUCLEUS ASSAY: Micronucleus assays is one of the preferred methods for assessing chromosome damage and toxicological screening for potential genotoxic compounds



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### **BIOCHEMICAL ASSAY**



- Cell based Assay
- PCR based Assay
- Assay by Chromatography
- · Colorimetric assay
- · Fluorometric assays
- · Gel-based assays
- Assay with ELISA

**CELL BASED ASSAY:** Cell based assays can be grouped into categories such as cell proliferation assays, cell death assays, reporter gene assays, and cell signaling assays



Analysis by Chromatography



Analysis by Mass Spectrometry



Analysis by Spectroscopy

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

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### **Technical Support**



immunological assay are the biochemical test commonly used to measure concentrations of macro/micro molecules like; antibodies, antigens, proteins and glycoproteins in biological samples..

### **Bio Chemical Assay**

### **Assay by Flow Cytometry:**

Flow cytometry is a laser-based technique used to detect and analyze the chemical and physical characteristics of cells. Cell components are fluorescently labelled and then excited by the laser to emit light at varying wavelengths.

### Immunofluorescence Microscopy:

Immunofluorescence microscopy is a widely used of immunostaining and is a form of immunocytochemistry based on the use of fluorophores.

### PCR based Immunoassay:

Immuno-PCR Techniques that combine nucleic acid amplification with an antibody-based assay for sensitive antigen detection by means of specific antibody-DNA conjugate



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### **IMMUNOLOGY ASSAY**



- Flow Cytometry Assay
- PCR based Assay
- ELISA based Assay
- · Immunofluorescence microscopy
- Immunoassay by Electrophoresis
- Spectrophotometric Assay
- Fluorescence based Assay

**CELL BASED ASSAY:** Cell based assays can be grouped into categories such as cell proliferation assays, cell death assays, reporter gene assays, and cell signaling assays



Analysis by Chromatography



Analysis by Mass Spectrometry



Analysis by Spectroscopy

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

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### **Technical Support**



## ANALYTICAL TESTING SERVICES

### HIGHLIGHT

- HPLC Analysis
- GC Analysis
- Mass Spectrometry Analysis
- Vitamin Analysis
- GMO Analysis
- Amino Acid Analysis
- Allergen Analysis
- Trace Analysis





HPLC is used in separating the components of a compound or mixture. It is a technique used to separate different constituents of a compound using high pressure to push solvents through the column. We offer HPLC services to separate, characterise, identify, and quantitate semi- and nonvolatile materials in various sample matrices. Our state-of-the-art HPLC capabilities allow for detection of analytes to trace levels.

### **Bio Chemical Assay**

- Method Development
- Analysis of Bio-Molecules By PDA/FLD
- · Analysis of Industrial Chemicals
- Impurity and Ingredients Analysis
- Vitamin Analysis
- Amino Acid Analysis
- Forensic Sample Analysis
- Analysis of Food Samples

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### **ANALYSIS BY HPLC**



- Actives Quantification
- Additives Analysis
- · Taste and Odour Analysis
- Antioxidant Analysis
- Impurity Analysis
- Analytical Method Development
- Bio-analytical Method Development

We have the capability of running normal and reverse phase isocratic or gradient methods utilising multi-wavelength UV/Vis spectrophotometric or diode array detection (DAD) and Fluorescence Detection (FLD)



Analysis by HPLC-PDA



Analysis by HPLC-FLD



Preparative HPLC Purification

### **ADVANTAGE**





### **Cost Effective Solutions**

Our team of professionals is capable of developing innovative and **cost-effective** solutions in scientific research.



### **Quick Turn-around**

Accelerated turn-around time guarantees that you will get your results as mentioned in contract.



### **Technical Support**



We carried out wide range of projects like; analysis of chemical families, pharmaceutical components, flavors and fragrances, additives for polymers and rubber, solvents and bulk chemicals, components of paints and adhesives, herbicides and pesticides, , as well as many other types of molecules with Gas Chromatography.

### **Bio Chemical Assay**

- Method Development
- Analysis of Bio-Molecules By PDA/FLD
- Analysis of Industrial Chemicals
- Impurity and Ingredients Analysis
- Vitamin Analysis
- Amino Acid Analysis
- Forensic Sample Analysis
- Analysis of Food Samples

### **.**

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### **ANALYSIS BY GAS CHROMATOGRAPHY**



- Actives Quantification
- Additives Analysis
- Taste and Odour Analysis
- Antioxidant Analysis
- Impurity Analysis
- Analytical Method Development
- Bio-analytical Method Development

We follow Accuracy, Repeatability/Reproducibility, Precision, Specificity/Selectivity, Limit of Detection (LOD), Limit of Quantitation (LOQ), Linearity, Range, Robustness, System Suitability, Sample Stability for method development.



Analysis by GC-FID



Analysis by GC-FPD



Analysis by GC-NPD

### **ADVANTAGE**





### **Cost Effective Solutions**

Our team of professionals is capable of developing innovative and **cost-effective** solutions in scientific research.



### **Quick Turn-around**

Accelerated turn-around time guarantees that you will get your results as mentioned in contract.



### **Technical Support**



We are the premier service provider of GC-MS analytical services to the Pharmaceutical, Herbal ,Cosmetics, Perfumery, Oil and Biotech industries. We are comprehensively equipped to analyze samples for volatile or semi volatile in a variety of matrices. Our GC & GC-MS core expertise is in developing and validating robust quantitative methods and then applying those methods to high throughput sample analysis

### **Bio Chemical Assay**

- Method Development
- Analysis of Bio-Molecules By PDA/FLD
- · Analysis of Industrial Chemicals
- Impurity and Ingredients Analysis
- Vitamin Analysis
- Amino Acid Analysis
- Forensic Sample Analysis
- Analysis of Food Samples

### ANALYSIS BY MASS SPECTROMETRY



- Mass Spectrometry Analysis Service
- Bio analytical Method Validation
- Method Validation
- Trace Analysis

We follow Accuracy, Repeatability/Reproducibility, Precision, Specificity/Selectivity, Limit of Detection (LOD), Limit of Quantitation (LOQ), Linearity, Range, Robustness, System Suitability, Sample Stability fin our analysis.



Analysis by GC-MS-MS



Analysis by GC-FID, FPD



Analysis by GC-NPD

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

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### Technical Support We offer custom of



Allergens are mainly proteins that the immune system of allergic individuals. Food allergies are typically IgE-mediated, which means that the body produces large amounts of antibodies that specifically target the proteins of certain food products.

There is no specific trouble induced by food allergens. These items have different reactions to different bodies. Allergic reactions could cause immediate wheezing, vomiting, and hives, stomach upset etc.

### Allergen Assay

### Analysis of Allergens by HPLC:

Analysis of Allergens by Affinity Purification and HPLC - FLD Detector. (Fluorescence detectors are highly sensitive detectors best suited for cases where the compounds either are inherently fluorescent )

### Allergen detection using PCR & real-time PCR:

The PCR reaction allows obtaining qualitative results.. Fluorescence detectors are highly sensitive detectors best suited for cases where the compounds either are inherently fluorescent, or have been modified to be so.We may analyse food allergens by Multiplex-PCR ( Several Genes in single reactions), Duplex PCR and HPLC-PNA-PCR



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### **ALLERGEN ANALYSIS**



- Agriculture Food Crops , Cereals containing gluten, Oat, Barley, Rye, Spelt, Kamut, Wheat
- Dry Fruits
- Eggs
- Fish
- Soybeans
- Milk, Casein and/or Beta-lactoglobulin
- Peanuts and other nuts including almonds, hazelnuts and walnuts
- Sulphur dioxide and sulphites which are used as preservatives in food products like sausages and dried fruits.

### Immunological allergen detection by means of ELISA:

ELISA methods detect the allergen protein molecule by binding antibodies to the allergen. The samples are processed and change color to confirm the presence of the allergen protein.

**PCR-ELISA:** In the PCR-ELISA method the detection of an allergen does not require gel electrophoresis. The amplified DNA fragment is labeled with biotin or digoxygenin.

### **ADVANTAGE**





3

### **Cost Effective Solutions**

Our team of professionals is capable of developing innovative and **cost-effective** solutions in scientific research.



Accelerated turn-around time guarantees that you will get your results as mentioned in contract.

### Technical Support



Vitamins are essential micronutrients that humans and animals need in small amounts for various roles throughout the human body. There are thirteen vitamins all together, some water soluble and some lipid soluble.

### Vitamin Analysis Assay

### **ANALYSIS OF WATER SOLUBLE VITAMIN:**

We have validated a robust analytical method to detect and quantify 10 water-soluble vitamins; thiamin (B1), riboflavin (B2), nicotinic acid (B3-OH), nicolinamide (B3-NH2), pantothenic acid (B5), Vitamin B6, biotin (B7), folic acid (B9), Vitamin B12 and Vitamin C.

### ANALYSIS OF FAT SOLUBLE VITAMIN:

We have developed fat-soluble vitamins (vitamin A, vitamin D, vitamin E, vitamin K) components by separation through a reverse phase column and diode array detection (DAD).DAD allows highly sensitive simultaneous analysis at optimal wavelengths.

### **ANALYSIS OF VITAMINS**



- Biological Sample
- Research Sample
- Food / Pet Food Sample
- Nutraceutical Product
- Herbal Product
- Pharmaceutical Product

The commonly used technologies for vitamin analysis in foods are chromatographic, electrophoretic, immunological, spectrophotometric, fluorometric, and microbiological methods.



Analysis by Chromatography



Analysis by Spectrophotome try



Analysis by Fluorometric Assay

### **ADVANTAGE**

2

3





Our team of professionals is capable of developing innovative and **cost-effective** solutions in scientific research.

### Quick Turn-around

Accelerated turn-around time guarantees that you will get your results as mentioned in contract.

### **Technical Support**

We offer custom design for your targeted sequencing projects, data analysis and consulting.



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A Genetically Modified Organism (GMO) is an organism whose genetic material has been altered using genetic engineering techniques. Many countries around the world have enacted laws to restrict the levels of GMOs in food product. GMOs are detectable with different methods. Yet only the detection of DNA with polymerase chain reaction (PCR) and extensive portfolio of immunoassays for sensitive, easy and quick GMO detection.

### **GMO Analysis Assay**

The commonly used technologies for gmo analysis in foods / agriculture crop are qualitative, quantitative PCR analysis and immunoassay methods.

- Qualitative GMO Analysis
- Semi-Qualitative Analysis
- Single-Threshold GMO Analysis
- Real Time PCR Analysis
- Immunoassay
- Sequencing Method

### **ANALYSIS OF G.M.O**



- · GMO protein in leaf tissue, single seed, or bulk grain samples
- Research Sample
- Agriculture Crop
- Cotton
- Sova
- Animal Feed

GMO screening by PCR method is a fast and cost effective method for the detection of various GMOs to achieve this objective we will use the 35S (promoter) and NOS (Terminators) primers and qualitative and semi-quantitative determination is possible.

Analysis by Immunoassay is also used in GMO detection.



Analysis by PCR



Analysis by Q-PCR



Analysis by ELISA

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

**Technical Support** 

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### 3



Amino acids are found either in the free state or as linear chains in peptides and proteins. There are 20 commonly occurring amino acids in proteins amino acids analysis is required in several areas of research. It is an important tool for many scientific areas ranging from the characterisation of recombinant proteins to the nutritional assessment of food proteins and animal feed.

### Amino Acid Analysis Assay

Analysis of common natural amino acids:
Aspartic acid, Threonine, Asparagine,
Serine, Glutamic acid, Glutamine,
Cysteine, Proline, Glycine, Alanine, Valine,
Cystine, Methionine, Isoleucine, Leucine,
Tyrosine, Phenylalanine, Phenylalanine,
Lysine, Histidine, Tryptophan, Arginine

We provide detailed information regarding the relative amino acid composition and free amino acids. The Amino Acid Analysis procedure includes hydrolysis, separation, detection and quantification



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### **ANALYSIS OF AMINO ACID**



- · Complete amino acid profile
- Amino Acid profile (liquid hydrolysis)
- Amino acid profile without tryptophan
- Amino Acid profile with Hydroxyproline, Taurine Cysteine, methionine and lysine +9
- · Standard protein hydrolysate
- Free supplemental amino acids
- · Complete supplemental amino acid profile
- Available lysine and complete amino acid profile
- Glutamine (peptides and protein)
- Physiological Analysis of Biological Fluids



Analysis by HPLC



Analysis by GC-FID



Analysis by Mass Spectrometry

### **ADVANTAGE**





### **Cost Effective Solutions**

Our team of professionals is capable of developing innovative and **cost-effective** solutions in scientific research.



### **Quick Turn-around**

Accelerated turn-around time guarantees that you will get your results as mentioned in contract.



### **Technical Support**



Our trace analysis lab has the latest analytical equipment that is ideal for trace analysis meaning we can attain detection limits and degrees of precision and our services are reliable and flexible, close coordination with clients, quick service, and as per the modern industry norms..

### Trace Analysis Assay

The commonly used technologies for gmo analysis in foods / agriculture crop are qualitative, quantitative PCR analysis and immunoassay methods.

- Biological Sample
- Research Sample
- Food / Pet Food Sample
- Nutraceutical Product
- Herbal Product
- Pharmaceutical Product

### **ANALYSIS OF TRACES**



- · Non Volatile Organic Trace Analysis
- · Volatile or semi volatile Organic trace analysis
- · Elemental / In-organic Trace Analysis
- - Impurity Analysis

We are capable in trace analysis in food, pharmaceuticals, cosmetics and biological samples. We have expertise in testing tarces in various chemical and biological matrices.



Analysis by GC-FID



Analysis by GC-FPD



Analysis by GC-NPD

### **ADVANTAGE**





### **Cost Effective Solutions**

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### **Quick Turn-around**

**Technical Support** 

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### 3

### **TERMS & CONDITIONS**

SERVICES: The Sample Submittal Form specifies the service requested by Customer and the information needed by Allele Life Sciences to perform the services. The provision of the Services is governed solely by the terms and conditions of this Agreement. Allele Life Sciences will provide the results in the time requested by Customer, unless otherwise notified by Allele Life Sciences. Customer cannot cancel an order if Allele Life Sciences has commenced the Services. In the event that the Customer has requested a retest of the sample and the repeat testing reveals that the initial result (i) is not the result of laboratory error, failure or omission or (ii) arises from a lack of validation with the product sample matrix and/or extraction method, Allele Life Sciences will charge Customer 75 % of the list price of the procedure utilized. Conversely, if the retest reveals laboratory error, failure or omission, there is no charge for the repeated test.

PRICING: The prices for the Services provided Allele Life Sciences shall be determined by the nature of the Services provided and will be agreed upon by Customer and Allele Life Sciences prior to the initiation of the Services.

PAYMENT: Allele Life Sciences will charge 75 % in advance against the invoice raised to the customer and remaining 25 % at the time of delivery of results.

LIMITED WARRANTY: Allele Life Sciences will examine the samples using techniques in accordance with life sciences / pharmacopoeia monographs, where applicable. In the event that Allele Life Sciences breaches this warranty, Customer's sole remedy is a full refund of the fee for the Services and to have the sample re-analysed at no cost to Customer. The warranty is void if the information provided to Allele Life Sciences in the Sample Submittal Form is not accurate or complete.

Limitation of Damage: Allele Life Sciences maximum liability shall not exceed the amount paid for the services .

Jurisdiction: Any dispute, claim or controversy between the parties arising out of or relating to this Agreement shall be submitted to the jurisdiction of Delhi court.

Miscellaneous: This Agreement and the Sample Submittal Form are the complete and exclusive statement of the agreement between Allele Life Sciences and Customer and supersedes any proposal, prior agreement, oral or written, and any other communications between the parties. The warranty provided in this Agreement is for the benefit of Customer and Customer may not pass the warranty on to any third party.

**Signed By Both The Parties** 

### NON DISCLOSURE AGREEMENT

It is the desire of the first and second party to have share information and have discussions relative to investigating the feasibility and advisability of preparing and conducting clinical studies or any other business related activities. In the course of those discussions, both parties may be disclosing to each other, information regarded as being confidential or proprietary. For purposes of this Agreement, all information exchanged which is regarded as confidential or as being otherwise proprietary in nature shall be collectively referred to herein as "Confidential Information." The existence of this Agreement and the terms set forth herein shall be considered Confidential Information. Accordingly, for mutual protection, we ask that this Agreement be reviewed and executed prior to exchanging any Confidential Information by meeting or by any other arrangement. It is understood that all Confidential Information provided pursuant to the terms hereof, which the disclosing party regards as being confidential or proprietary, shall be identified or marked as "Confidential." Oral disclosures of Confidential Information shall be confirmed by reducing the disclosures to writing and providing the writing to the receiving party within thirty (30) days from the date of the oral disclosure. With respect to all Confidential Information disclosed to each other by both parties, during the term of this Agreement, the party receiving same hereby agrees to keep, hold, and maintain in confidence all such Confidential Information, of every kind and character, and not to disclose, directly or indirectly, to any third party, or otherwise make use of said Confidential Information other than as contemplated by this Agreement, without the prior written consent of the disclosing party, except that the receiving party may disclose Confidential Information to those of its agents, consultants, and legal and financial advisors (collectively "Representatives") who have a need-to-know such information for the purposes hereof and who are bound by like obligations of confidentiality and non-use. The obligations of confidence and non-use assumed by both parties to this agreement, hereunder shall not apply to: • information which at the time of disclosure is in the public domain; or • information which thereafter lawfully becomes a part of the public domain other than through disclosure by or through the receiving party; or • information which is already in the possession of the party receiving same as shown by its written record; or • information which is lawfully disclosed to either party by a third party not under an obligation of confidentiality to the disclosing party with respect to said Confidential Information; or information which is subsequently developed by an employee or agent of the receiving party without actual knowledge of the disclosure; or • information which the receiving party must disclose pursuant to applicable laws, regulations or court order, provided that the receiving party gives the disclosing party reasonable notice of its intent to disclose such information. information which is disclosed by the recipient with the written approval of either of the aforesaid parties. Neither party shall use the name of the other party in any discussions with third parties (other than Representatives), advertising, press release, sales literature, or fundraising efforts without the prior written consent of the other party. In the event the disclosing party gives the receiving party prior written consent to disclose Confidential Information received from the disclosing party to any third party, other than Representatives, the receiving party hereby agrees to obtain written agreements from any such third party to whom the receiving party discloses such information, similar in form and substance to this Confidentiality Agreement, for the benefit of the disclosing party. This Agreement is entered for a period of three (3) years from the date of signing of this agreement and is governed by and shall be construed in accordance with the laws of India

### SAMPLE ANALYSIS REQUEST

### PERSONAL INFORMATION **Full Name** (PLEASE USE CAPITAL) Address Phone Number : ——— ----- E-Mail : -----**SAMPLE INFORMATION** S/N **ANALYSIS REQUIRED SAMPLE INFORMATION QUANTITY MSDS ANALYSIS INSTRUCTION** OFFICE USE ONLY Received By **Date** Forwarded to Copy to **ALLELE LIFE SCIENCES PRIVATE LIMITED** We will send you Quotation after technical • c-59,Sector-10, Noida, Uttar Pradesh review of your assignment. +91-8377082003 www.allelelifesciences.com

**THANK YOU** 

### MATERIAL SAFTEY DATA SHEET

	DESCRIPTION OF SAMPLES	COMMENT
1.	MATERIAL COMPOSITION/LIST OF INGREDIENTS?	
2.	IS LICENSE REQUIRED TO HANDLE SAMPLE?	
3.	IS THE SAMPLE A BIOLOGICAL AGENT?	
4.	IS SAMPLE RADIOACTIVE?	
5.	PHYSICAL CHARACTERISTICS?	
6	HAZARD/TRANSPORTATION LABELS?	
7.	DOES YOUR INSTITUTION SPECIFY ANY SPECIFIC PERSONAL PROTECTIVE EQUIPMENT (PPE) TO YOUR STAFF FOR HANDLING SAMPLE(S)?	
8.	DOES YOUR COMPANY SPECIFY ANY SPECIFIC SAMPLE CONTAINMENT?	
9.	DOES YOUR COMPANY SPECIFY ANY SPECIFIC SAMPLE CONTAINMENT?	

# OTHER INSTRUCTION

Customer Name :	Signature :	



### **Contact Us**

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