

NKBIO

BIOSCIENCES

NKVYRA BIOSCIENCES

PRIVATE LIMITED

Life Sciences Research & Sample Analysis Support

Sample Analysis | Data Analysis | Thesis Support | Manuscript Support | Contract Research

Call: +91-9044360759 Email: info@nkbio.in Website: nkbio.in/contact.php Location: Lucknow, India

Sample Analysis Services

For Life Sciences, Biotechnology, Pharmacy & PhD Research Work

Comprehensive laboratory testing and analytical support for cells, tissues, plants, microbes, proteins, DNA/RNA, formulations, nanoparticles and research data.

Most Requested Tests

TEM

SEM

FTIR

PDI

DLS

Zeta

MTT

ROS

PCR/qPCR

SDS-PAGE

Blotting

ELISA

Flow Cytometry

Histopathology

HPLC/GC-MS

Research Sample Types

Cell lines, tissue, serum, plasma, blood, plant extracts, herbal extracts, microbial cultures, nanoformulations, drug formulations, DNA/RNA, proteins, PCR products, slides, paraffin blocks, food/water/soil research samples.

Protocol discussion, sample preparation guidance and reporting support available.

Contact / Enquiry



Scan for NKBIO contact page

Ethical Research Support Only

Analysis, editing, formatting, documentation and interpretation support. Authorship and original research responsibility remain with the scholar/client.

Contact NKBIO for sample analysis, data analysis and research support

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Microscopy & Imaging Analysis

TEM - Transmission Electron Microscopy, SEM - Scanning Electron Microscopy, FE-SEM, SEM-EDX/EDS elemental analysis, AFM, confocal microscopy, fluorescence microscopy, inverted microscopy, phase-contrast microscopy, bright-field microscopy, live/dead cell imaging, cell morphology analysis, tissue slide imaging, nanoparticle morphology, bacterial/fungal morphology, biofilm imaging, image quantification.

Nanoparticle, Biomaterial & Formulation Characterization

particle size analysis, DLS, PDI - Polydispersity Index, zeta potential, FTIR, UV-Visible spectroscopy, fluorescence spectroscopy, XRD, Raman spectroscopy, DSC, TGA, BET surface area, porosity analysis, contact angle, pH/conductivity, viscosity, osmolality, formulation stability, drug loading, encapsulation efficiency, in-vitro drug release, release kinetics, dissolution study, formulation optimization.

Analytical Chemistry & Instrumental Analysis

HPLC, UHPLC, LC-MS/MS, GC-MS, GC-FID, HPTLC, NMR support, ICP-MS, ICP-OES, AAS, heavy metal analysis, ion chromatography, UV spectrophotometric analysis, fluorometric analysis, moisture content, ash value, drug/content estimation, impurity profiling, residual solvent support, stability-indicating method support.

Cell Culture, Cytotoxicity & Cell Health Assays

mammalian cell culture, cancer cell-line maintenance, primary cell culture support, cell viability assay, MTT, MTS, XTT, WST-1/CCK-8, SRB, resazurin/Alamar Blue, trypan blue exclusion, LDH cytotoxicity, neutral red uptake, live/dead assay, cell proliferation, clonogenic assay, scratch wound-healing, cell migration, cell invasion, 3D spheroid assay, IC50 determination, dose-response/time-response analysis.

Oxidative Stress & Antioxidant Assays

ROS generation assay, DCFH-DA ROS assay, mitochondrial ROS, DPPH, ABTS, FRAP, ORAC, hydrogen peroxide scavenging, nitric oxide scavenging, superoxide radical scavenging, hydroxyl radical scavenging, lipid peroxidation, MDA/TBARS, GSH/GSSG, SOD activity, catalase activity, glutathione peroxidase, glutathione reductase, total antioxidant capacity, total phenolic content, total flavonoid content.

Anti-inflammatory & Immunological Assays

anti-inflammatory activity assay, protein denaturation inhibition, membrane stabilization, COX inhibition, LOX inhibition, nitric oxide inhibition, LPS-induced inflammation model, RAW 264.7 macrophage assay support, TNF-alpha estimation, IL-6 estimation, IL-1 beta estimation, IL-10 estimation, cytokine profiling, ELISA-based marker analysis, macrophage activation, immunomodulatory activity, hemolysis/hemocompatibility support.

Microbiology & Antimicrobial Testing

antibacterial testing, antifungal testing, agar well diffusion, disc diffusion, MIC - Minimum Inhibitory Concentration, MBC, MFC, time-kill kinetics, microbial growth curve, CFU counting, Gram staining, bacterial viability, fungal spore germination, biofilm inhibition, biofilm eradication, crystal violet biofilm assay, zone of inhibition, water/food microbial load, antibiotic susceptibility support, endotoxin testing support.

Molecular Biology Services

DNA isolation, RNA isolation, genomic DNA extraction, plasmid DNA isolation, cDNA synthesis, PCR, RT-PCR, qPCR/Real-Time PCR, RT-qPCR gene-expression analysis, multiplex PCR, nested PCR, colony PCR, primer designing, agarose gel electrophoresis, gel documentation, PCR product purification, restriction digestion, DNA barcoding, 16S rRNA analysis, ITS sequencing support.

Molecular Markers & Genotyping

RAPD markers, ISSR markers, SSR/microsatellite markers, AFLP, RFLP, SNP genotyping, CAPS markers, SCAR markers, marker scoring, plant molecular marker analysis, microbial diversity marker analysis, genetic diversity analysis, population analysis support, phylogenetic analysis, sequence alignment, BLAST support.

Protein Analysis, Blotting & Biochemical Assays

protein extraction, protein quantification, Bradford assay, Lowry assay, BCA assay, SDS-PAGE, Native PAGE, Western blotting, Dot blot, Southern blot support, Northern blot support, ELISA, enzyme activity assays, protease, amylase, lipase, urease, phosphatase, zymography support, Coomassie staining, silver staining, protein profiling, column chromatography/purification support.

Flow Cytometry, Apoptosis & Cell Mechanism Assays

flow cytometry analysis, Annexin V/PI apoptosis assay, apoptosis/necrosis analysis, cell-cycle analysis, sub-G1 population, mitochondrial membrane potential, JC-1 assay, caspase activity, ROS by flow cytometry, CD marker analysis, immune-cell phenotyping, intracellular cytokine staining, DNA damage support, cell sorting support, fluorometry-based assays.

Histopathology, IHC & Tissue Analysis

histopathological analysis, tissue fixation, tissue processing, paraffin embedding, microtomy/sectioning, H&E; staining, PAS staining, Masson's trichrome, Oil Red O, Alcian blue, Sirius red, IHC - immunohistochemistry, immunofluorescence, TUNEL support, histomorphometry, liver/kidney/brain/tumor/skin/wound histology, inflammation scoring, fibrosis scoring, tissue damage scoring.

Pharmacology, Toxicology & In-vivo Sample Biochemistry

acute toxicity sample analysis, sub-acute toxicity sample analysis, serum biochemistry, liver function markers: AST/SGOT, ALT/SGPT, ALP, bilirubin, kidney function markers: urea, creatinine, uric acid, lipid profile, blood glucose, hematology: Hb, RBC, WBC, platelets, organ weight analysis, tissue oxidative-stress markers, serum inflammatory markers, wound-healing sample analysis, anti-diabetic, anti-cancer, neuroprotective, hepatoprotective, nephroprotective study support.

Plant, Herbal & Natural Product Analysis

plant extract preparation, solvent extraction support, phytochemical screening, alkaloids, flavonoids, phenolics, saponins, tannins, terpenoids, glycosides, steroids, total phenolic content, total flavonoid content, antioxidant profiling, essential oil analysis, HPTLC profiling, HPLC, GC-MS, LC-MS/MS, herbal formulation analysis, plant DNA isolation, plant molecular marker analysis.

Genomics, Sequencing & Bioinformatics Support

Sanger sequencing support, NGS data analysis support, 16S rRNA sequencing analysis, metagenomics support, transcriptomics support, gene-expression data analysis, primer design, sequence alignment, BLAST, phylogenetic tree, molecular docking, molecular dynamics support, protein structure prediction, in-silico ADMET, drug-likeness analysis, pathway analysis, heatmap/PCA support.

Statistical, Graphical & Research Data Analysis

statistical analysis, t-test, ANOVA, post-hoc analysis, regression, correlation, IC50 calculation, dose-response curve, survival analysis support, PCA, heatmap, graph preparation, table preparation, figure formatting, data interpretation, result compilation, thesis/manuscript figure support, research report preparation.

How to Request Sample Analysis

share sample type, test/assay required, sample number, volume/weight/concentration, storage condition, project objective, reference protocol/method if any, expected report format, required timeline, contact for feasibility and quotation.

Research Documentation & Result Support

analysis report preparation, result interpretation support, graph and table preparation, statistical analysis, IC50 calculation, figure formatting, thesis/dissertation editing and formatting, manuscript language editing, journal formatting, reference formatting, plagiarism reduction support, ethical research guidance.

Common Sample Types Supported

cell lysates, cell culture supernatant, serum, plasma, blood, tissue homogenate, plant extract, herbal extract, microbial culture, bacterial/fungal isolates, nanoformulations, drug formulations, protein/DNA/RNA samples, water/soil/food research samples, paraffin blocks, slides, PCR products, biological fluids and experimental research samples.