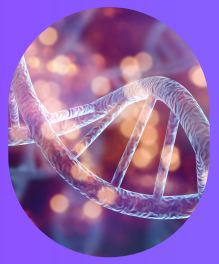
WHAT DO WE OFFER

WORKSHOPS

FUNDAMENTALS OF NANOTECHNOLOGY

- INTRODUCTION TO NANOTECHNOLOGY AND NANOSCIENCE
- SYNTHESIS OF NANOMATERIALS, NANOFIBERS
- CHARACTERIZATION TECHNIQUES-SCANNING ELECTRON MICROSCOPY, X-RAY DIFFRACTION, FOURIER TRANSFORM INFRARED SPECTROSCOPY, UV-VISIBLE SPECTROSCOPY
- GOOD LAB PRACTICES (GLP)

MOLECULAR BIOLOGY TECHNIQUES



- PREPARATION OF GROWTH/CULTURE MEDIA AND BUFFER
- DNA ISOLATION FROM PLANTS, BACTERIA, BLOOD, AND TISSUE SAMPLE
- GEL ELECTROPHORESIS & ITS RESULT ANALYSIS BY GEL ANALYZER SOFTWARE
- QUANTITATIVE ANALYSIS O
- PRIMER DESIGNING AND PCR COCKTAIL PREPARATION
- POLYMERASE CHAIN REACTION (PCR)
- PROTEIN ISOLATION & PROTEIN ESTIMATION BY THE LOWRY METHOD
- COMPUTATIONAL ASPECTS OF BIOTECHNOLOGY

CELL CULTURE TECHNIQUES

- IDENTIFICATION OF CELL THROUGH INVERTED MICROSCOPE AND REVIVAL OF CELL WITH PROPER MEDIA (ALONG WITH FUMIGATION, CLEANING SURFACE WITH DETERGENT AND WIPING OUT EVERY EQUIPMENT WITH 70% ETHANOL)
- MEDIA PREPARATION
- CELL VIABILITY AND TOXICITY TEST (MTT)
- ABSORBANCE USING MICROPLATE READER
- DATA ANALYSIS AND CALCULATING IC50 FOR DRUG

MICROBIOLOGY TECHNIQUES

- CULTURE MEDIA PREPARATION, AUTOCLAVING, AND PLATING
- SOILBACTERIA GRAM STAINING AND GROWTH CURVE ANALYSIS
- BIOCHEMICAL TEST TO IDENTIFY BACTERIA
- DNA ISOLATION FROM BACTERIAL CULTURE
- IDENTIFICATION OF BACTERIA THROUGH 16S PCR
- AGAROSE GEL ELECTROPHORESIS
- IDENTIFICATION OF BACTERIA THROUGH BLAST THE SEQUENCE

ABOUT US

Our enterprise focuses on biomedical and environmental applications.
We established the business during a pandemic to better the welfare of the population by offering efficient products and inventions for the betterment of the society.

We have extensive experience in synthesizing several nano-materials, including noble nanoparticles, quantum dots, nanofibers, metal and metal oxide nanoparticles, and nano-composites for use in a variety of environmental and medical applications.

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3K NANO Pvt. Ltd.

Where minute is more

3K Nano Pvt. Ltd.
Incubated under-Atal Incubation Centre Jawaharlal Nehru University Foundation for Innovation (AIC-JNU-FI)
New Delhi -110067

Associated with

www.3Knano.com

Products list

KITS	Molecular Biology Kits
Quantum Dots	Graphene Quantum Dots Zinc Sulphide Quantum Dots Carbon Quantum Dots MoS_2 Quantum Dots
Nanofibers	Bio nanofibers Polymer nanofibers Drug incorporated nanofibers
Electrodes	Screen Printed Electrodes
MEMBRANES	Ion Exchange Membrane
Nanoparticles	Gold Nanoparticles Silver Nanoparticles Cerium oxide Nanoparticles Zinc oxide Nanoparticles Iron oxide Nanoparticles Aluminum oxide Nanoparticles

Products list

- RNA Extraction Kit - Bacteria
- RNA Extraction Kit - Cell Culture
- RNA Extraction Kit - Blood
- RNA Extraction Kit - Plant
- RNA Extraction Kit - Animal Tissue
- DNA Extraction/Isolation Kit
- Gel Electrophoresis Kits
- 1 M Tris Buffer (pH = 8.0) Nuclease Free
- 0.5 M EDTA (pH = 8.0) Nuclease Free
- Elution Buffer 1XTE Buffer
- Diluent for DNA Extraction
- CTAB Extraction Buffer
- TRIZED RNA Extraction Reagent
- Phosphate Buffer Saline
- Dulbecco's Phosphate Buffered Saline
- 50X TAE Buffer
- 10X TAE Buffer
- 10X MOPS Buffer
- 6X Gel Loading Dye - Single Dye
- 6X Gel Loading Dye - Double Dye
- 2X RNA Loading Dye - Double Dye
- 2X Gel Loading Dye (Denaturing Page)
- Ethidium Bromide
- 30% Acrylamide:Bisacrylamide
- TEMED
- 2X SDS PAGE Sample Loading Buffer
- 10X Tris Glycine-SDS PAGE Running Buffer

SCREEN PRINTED ELECTRODES

CARBON BASED SCREEN PRINTED ELECTRODES

- Size: 30mm X10mm (Customizable as per requirement)
- Diameter of working electrode: 2 & 4 Micro meter
- (Customizable as per requirement)
- Working electrode: Carbon
- counter electrode: Carbon
- Reference electrode: Silver/silver chloride

- SPEs made using 3 different flexible polymer substrates
- SPEs Design customization as per requirement.
- Manufactured and tested under supervision of a team of scientists and engineers ensuring high sensitivity and accuracy