DEXTROSE
TECHNOLOGIES PVT. LTD.

Biotechnology Research Services

Accurate testing | Clear reports | Faster decisions

End-to-end lab testing and interpretation for R&D, QA/QC, and academic projects.

•Microbiology •Molecular Biology •Analytical Services •Biochemical •Elemental Analysis •Bioinformatics •Product Development

Typical TAT: 3–7 days
Bengaluru • Pan-India samples accepted
ISO 9001 Quality System

Location

Book a Consultation Call
Scan the QR to schedule a call or share sample details.

+91 9880405558 | info.dextrosetech@gmail.com | www.dextrosetech.com

WHO WE ARE

A research partner — not just a lab

Dextrose Technologies Pvt Ltd delivers end-to-end biotechnology research services with one goal: results you can trust and act on. From microbiology and molecular workflows to advanced analytical testing and bioinformatics, we combine strong methods with clear interpretation.

At a glance

- ISO 9001 Quality System
- IAF & JAS-ANZ recognition
- Typical TAT: 3–7 days*
- Bengaluru lab • Pan-India samples accepted

*Project dependent.

"What you get"

- Method clarity: documented approach, controls, and conditions
- Decision-ready reporting: summary + raw data + interpretation notes
- Consultation support: guidance before testing and after results

"Who we support"

- Academia & research labs
- Hospitals & clinicians
- Pharma & formulation
- Nutraceuticals
- Food & beverage
- Agriculture & agri-inputs
- Environmental testing
- Materials & polymers

"How it works"

01 CONSULT
Share objective, sample details, timeline.

02 TEST
Method selection, execution, and QC checks.

03 REPORT
Clear results + interpretation + next-step call.

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QUALITY & STANDARDS

Quality you can audit

Structured workflows, documented checks, and clear reporting—built for defensible results.

Standards

- ISO 9001 Quality System
- IAF & JAS-ANZ recognition
- Certificate details available on request

Quality Controls (QC)

- Positive/negative controls (as applicable)
- Blanks / carryover checks (as applicable)
- Replicates / repeat checks (as required)
- Instrument suitability checks (routine)
- Peer review before release

Documentation & traceability

- Sample ID + tracking
- Test plan confirmation before execution
- Method conditions recorded
- Results compiled with review checkpoints
- Controlled report release

What you receive

Report	Raw data (as applicable)	Support
Summary of results	Chromatograms / spectra	Result walk-through call
Tables/figures	Images / maps	Next-step recommendations
Notes for interpretation	Output files	Documentation on request

TURN AROUND

Typical turnaround: 3–7 days

**Varies based on project complexity and sample queue.*

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CAPABILITIES

One lab. Multiple disciplines.

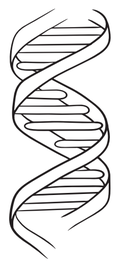
Choose what you need—or let us recommend the fastest, most defensible approach.

Core Capability Pillars

Microbiology

- Isolation & identification support
- Antimicrobial testing (ZOI/MIC/MBC)
- Contamination/QC testing

Molecular Biology



- DNA/RNA workflows
- PCR/qPCR support
- Sequencing-ready prep

Analytical Chemistry

- Isolation & identification support
- Antimicrobial testing (ZOI/MIC/MBC)
- Contamination/QC testing

Materials Characterization

- Microstructure & elemental mapping
- Phase/crystallinity insights
- Surface/particle understanding

Bioinformatics & Data

- Data cleanup & analysis
- Visualizations & interpretation
- Report-ready outputs

Instrumentation Snapshot

Instruments

- LC–MS/MS
- GC–MS/MS
- HPLC
- MALDI-TOF
- SEM + EDX
- XRD
- WD–XRF

What it enables

- Identification + quantification + profiling
- Residue/impurity screening
- Chromatographic separation & quantitation
- Imaging + elemental composition/mapping
- Phase/crystallinity and material ID
- Bulk elemental composition for materials

Additional instruments and configurations available — share your objective during consultation.

Deliverables

Deliverables that teams actually use

- Clear summary + tables/figures
- Raw data (as applicable)
- Interpretation + next-step guidance

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MICROBIOLOGY

Microbiology that answers the real question.

Isolation, characterization, and antimicrobial validation with clear, decision-ready reporting.

BEST FOR

- Product and process QC / contamination checks
- Antimicrobial efficacy validation
- Clinical/academic isolation and identification support
- Food, water, and environmental microbial load testing

Core Services

- Culture enrichment + pure colony isolation
- Gram staining + basic morphology
- CFU/colony count and microbial load
- Microbial limit / bioburden testing
- Zone of inhibition (ZOI) assays
- MIC / MBC (project-dependent)
- Contamination investigation support
- Report + interpretation call

Method selection depends on sample type and objective.

SAMPLES TYPES & DELIVERABLES

Sample types accepted

- Swabs / clinical research samples*
- Water and environmental samples
- Food / nutraceutical matrices
- Formulations, extracts, and intermediates
- Dental/oral research samples*

**Accepted as per project scope and biosafety requirements.*

Deliverables

- Results summary + interpretation notes
- Tables (counts, zones, MIC/MBC where applicable)
- Method conditions + controls used
- Images (microscopy) where applicable
- Consultation call for next steps

MICROBIAL REFERENCE PANEL

Reference organism panel

MTCC/ATCC reference strains and validated lab isolates are available for quality controls and project validation needs.

- Gram-positive bacteria
- Gram-negative bacteria
- Yeast and filamentous fungi
- Anaerobe/oral research panel (selected)
- Probiotic/gut research panel (selected)

Full list shared on request. Cultures are handled under appropriate biosafety protocols and are not for distribution.

TURN AROUND

Typical turnaround: 3–7 days

**Varies by sample type, method, and project scope.*

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MOLECULAR BIOLOGY

Molecular workflows built for confident results.

DNA/RNA workflows, PCR support, and data interpretation tailored to your objective.

BEST FOR

- Confirmation of targets/organisms (research use)
- Gene presence / screening workflows
- Sample-driven R&D validation studies
- Academic projects requiring clean documentation

Core Services

- DNA extraction (sample-dependent)
- RNA extraction (sample-dependent)
- cDNA synthesis (where applicable)
- PCR support (primer-based)
- qPCR support (project-dependent)
- Agarose gel electrophoresis + documentation
- Sample prep support for downstream analysis
- Reporting + interpretation call

Primer/protocol selection depends on project design and sample matrix

INPUTS NEEDED & DELIVERABLES

To start, we'll ask for

- Objective / target gene or organism
- Sample type + count + storage condition
- Any preferred primers or references (if available)
- Expected turnaround and reporting depth

**Accepted as per project scope and biosafety requirements.*

What you receive

- Results summary + interpretation notes
- Gel images (where applicable)
- Ct tables/plots (where applicable)
- Method conditions + controls used
- Recommendations for next steps

PROJECT FORMATS

Common project formats

Screening	Validation	Research support
• Presence/absence checks • Small panels	• Replicates + controls • Clear documentation	• Iterative experiments • Interpretation + reporting

We align the workflow to the question you're trying to answer—not just the technique.

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ANALYTICAL & MATERIALS

Advanced instruments. Clear answers.

From compounds to crystal phases, we deliver interpretable results for R&D, QC, and troubleshooting.

DECISION FIRST

- IDENTIFY
- QUANTIFY
- COMPARE
- CHARACTERIZE
- VALIDATE

THE 4 CAPABILITIES

Mass Spectrometry & Separations

Compound profiling, confirmation, and quantification support.

Platforms:

- LC–MS/MS
- GC–MS/MS
- HPLC
- MALDI-TOF

Outputs :

- Chromatograms / spectra
- Peak tables + summary interpretation

Imaging & Microstructure

Surface, morphology, and nanoscale structure insights.

Platforms:

- SEM + EDX
- TEM

Outputs :

- Micrographs + elemental maps (as applicable)
- Comparative analysis notes

Elemental & Metals

Bulk and targeted elemental quantification for materials and samples.

Platforms:

- WD–XRF
- ICP-OES
- AAS

Outputs :

- Element tables + interpretation summary
- Method/QC notes (as applicable)

Structure, Thermal & Particle

Crystallinity, thermal behavior, and particle size characterization.

Platforms:

- XRD
- DSC
- DLS

Outputs :

- Diffractograms / thermograms / size distributions
- Key conclusions + next-step guidance

WHAT YOU RECEIVE

Decision-ready report	**Raw outputs (as applicable)**	**Consultation included**
Summary + results + interpretation	Spectra, chromatograms, images, maps	Walk-through + next-step plan

TURN AROUND

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BIOINFORMATICS

Turn data into decisions.

Clean analysis, clear visuals, and interpretation you can use in reports, papers, and presentations.

BEST FOR

- Research teams with raw datasets needing clarity
- Academic projects requiring figures + interpretation
- Comparative studies across groups/batches
- Report-ready summaries for stakeholders

Deliverables

- Cleaned datasets + structured outputs
- Plots/figures ready for reports
- Key findings + interpretation notes
- Optional consultation call to finalize conclusions

**Deliverables vary by dataset type and study design.*

WORKFLOW CLARITY

You provide

- Raw files (CSV/Excel/FASTQ/FASTA/others)
- Study design (groups, controls, replicates)
- Objective + expected decision
- Any prior methods/protocol context

You receive

- Clean tables + summary metrics
- Publication-ready charts
- Comparison insights (group/batch)
- Interpretation + next-step recommendations

We confirm scope and outputs during the consultation before starting.

COMMON ANALYSIS MODULES

- Data cleaning & formatting
- PCA (where applicable)
- Descriptive statistics
- Heatmaps & summary visuals
- Group comparisons
- Report tables & figure packs
- Correlations & clustering
- Interpretation narrative

WHAT YOUR FINAL REPORT INCLUDES

Executive summary	Figures & tables	Interpretation
What matters + what it means	Clean, labeled, usable	Conclusions + next steps

TURN AROUND

Typical turnaround: 3–7 days

**Varies by method and project scope.*

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GET STARTED

Start in three steps.

Book a call, confirm scope, and send samples with clear tracking and reporting.

Book a Consultation

Share objective, sample type, and timeline

Scope & Quote

We align method, deliverables, and TAT before starting.

Send Samples

Receive a reference ID and tracking for smooth processing.

CHECK LIST

To begin, share

- Sample description and matrix
- Number of samples + replicates (if any)
- Objective / expected outcome
- Any known hazards or handling notes
- Preferred report format (summary vs detailed)
- Target timeline (3–7 days typical)

Packaging guidelines (general)

- Seal samples to prevent leakage/contamination
- Label each sample clearly (ID + date)
- Use secondary containment for liquids
- Include a simple sample list (digital or printed)
- Share storage condition requirements in advance

**Project-specific packaging instructions are shared after consultation.*

CONTACT US

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