



SHAMILA SHERIN

MICROBIOLOGY TECHNOLOGIST

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Location : Dubai, UAE

PROFESSIONAL SUMMARY

Experienced Medical Laboratory Technologist with 4+ years of expertise in Microbiology, Molecular Biology, Serology, Immunology, Biochemistry, and Hematology within NABL-accredited environments. Proficient in PCR, RT-PCR, NAAT, MGIT 320, automated ID/AST systems, immunoassays, culture techniques, and advanced diagnostic workflows. Demonstrated ability in quality assurance, contamination-control procedures, biosafety protocols, LIS reporting, reagent management, and staff training. Proven track record in audit participation (NABL), operational leadership, and managing high-volume diagnostic workflows. Seeking to contribute strong scientific, analytical, and laboratory operations skills to a reputed healthcare organization.

WORK EXPERIENCE

MICROBIOLOGY & MOLECULAR BIOLOGY TECHNOLOGIST

MJ ASHA HOSPITAL | Aug 2024 – Aug 2025

- Performed advanced microbiological testing including culture, sensitivity, AFB smears, biochemical identification, and AST.
- Ensured strict adherence to biosafety, aseptic procedures, and infection control protocols.
- Analyzed clinical specimens (blood, sputum, urine, swabs) and generated accurate, timely diagnostic reports.
- Supported molecular testing workflows and validated results before LIS entry.
- Collaborated with physicians and clinical teams to ensure precise interpretation of lab findings.
- Trained junior technologists on microbiology workflows, safety procedures, and QC handling.
- Managed reagent stocks, ensured calibration and maintenance of laboratory analyzers.

MOLECULAR BIOLOGIST & DEPARTMENT IN-CHARGE (MOLECULAR BIOLOGY)

MICROHEALTH LABORATORIES, CALICUT | Aug 2022 – Jul 2024

- Supervised molecular biology operations with responsibility for pre-PCR, amplification, and post-PCR analysis.
- Enforced strict contamination-control protocols and biosafety segregation (pre-PCR & post-PCR).
- Conducted RT-PCR, NAAT, and multiplex PCR for infectious diseases including MTB, HIV, HPV, HCV, HBV, JAK2, Scrub Typhus.
- Led a 12-member technical team during KHRA Health Camps and streamlined high-volume testing workflows.
- Successfully contributed to three NABL accreditation audits, including documentation, QC verification, and compliance.
- Monitored QC runs, maintained equipment logs, and validated assay performance.
- Managed inventory of kits, reagents, extraction consumables, and calibration materials.

LABORATORY TECHNOLOGIST

MICROHEALTH LABORATORIES, CALICUT | Aug 2021 – Aug 2022

- Conducted routine PCR testing, manual/automated extraction, and molecular analysis for infectious diseases.
- Maintained reagent logs, performed QC checks, and ensured accuracy of sample processing.
- Handled LIS reporting, documentation, equipment calibration, and workflow management.
- Supported senior technologists in troubleshooting assay issues and ensuring diagnostic accuracy.

PROJECT INTERN – PCR PRIMER OPTIMIZATION

PHYTOCHROME BIOSCIENCE (14 Days)

- Performed PCR testing and primer optimization targeting E. coli detection in potable water.
- Documented experimental protocols, QC observations, and findings for project reporting.
- Gained hands-on exposure to molecular workflows and contamination-control practices.

ACHIEVEMENTS

- Contributed to 3 successful NABL accreditation procedures.
- Led a 12-member technical team for KHRA community health camps.
- Participated in multiple CMEs related to QA/QC, biosafety, and molecular diagnostics.

EDUCATION

B.Sc. Microbiology | Calicut University (2018–2021)

Higher Secondary Education | Kerala, State Board (2016–2018)

CERTIFICATIONS

- **DHA Qualified Laboratory Technologist - DHA ID : 32459306**
- **DataFlow Case Reference Number D001-2508-2604275**
- Dataflow Verification Completed

CORE COMPETENCIES

- Clinical Microbiology & Culture Techniques
- Molecular Diagnostics & NAAT Platforms
- Serology & Immunoassays
- Quality Assurance (IQC/EQA)
- Contamination Control & Biosafety
- Sample Processing & Data Integrity
- Documentation, Reporting & LIS Management
- Inventory & Reagent Control
- Team Leadership & Training
- Laboratory Operations & Workflow Management

HANDS ON EXPERIENCE

- RT-PCR, Real-Time PCR (BIO-RAD CFX96, Opus384)
- Multiplex PCR, GeneXpert (CBNAAT)
- Molbio Truenat, Abbott ID NOW
- Tata MD Mobile PCR
- Spin Column & Magnetic Extraction (Manual & Automated)
- Huwel Manual Extraction
- ZYBIO EXM3000/6000
- NAAT Assays (HBV, HCV, HPV, JAK2, HLA-B27, CMV, HIV).
- Bacterial/Fungal Culture
- Gram Staining | ZN Staining
- India Ink, KOH, Wet Mounts, Biochemical Identification
- Antibiotic Susceptibility Testing (Kirby-Bauer, MIC, Automated Systems)
- TB Diagnostics (MGIT 320).
- ELISA (Manual & Automated)
- CLIA, ANA Profile, Widal, VDRL, HIV ELISA, HAV, HBsAg/HCV Testing
- Food Allergy Panel (Plex Mat 4).
- CBC, ESR, Peripheral Smear
- Hematology Analyzers (Advia 2120, Mindray BC 5000)
- Coagulation (Stago, Sysmex)
- Automated Biochemistry (Roche Cobas C303, Siemens Advia 1800, Beckman AU480, Autopack 300).
- BD BACTEC MGIT 320, BD Phoenix M50 ID/AST
- Diasorin Liaison Immunoassay Analyzer
- ZYBIO Z3, Rayto ELISA Reader, Electronic Pipettes.
- LIS, MS Excel, PowerPoint.

LANGUAGES : English | Hindi
