

Dabin Thapa

41 Russell Rise, Luton LU1 5ET
07467602522/dabinthapa48@gmail.com

PROFESSIONAL SUMMARY

Highly motivated and detail-oriented laboratory scientist with expertise in laboratory techniques, quality control, and biology research. Proficient in performing HPLC and ICP methods, data analysis, and maintaining sterile techniques. A strong foundation in applied microbiology, biotechnology, and analytical chemistry, with a passion for scientific innovation in oncology drug discovery.

EDUCATION

University of Wolverhampton

2023 – 2024

MSc Applied Microbiology and Biotechnology (Merits)

Key subjects; Microbiology, Biotechnology, Molecular Biology, Chemistry

Project; Antibiotic sensitivity test of *E.coli* isolated from chicken fecal sample.

CORE SKILL

- Highly Expertise in maintaining sterile environments and performing tissue culture and antibiotic tests.
- Understanding of high-throughput experimentation and bioconjugation workflows
- Experience in designing experiments, biomarker analysis, and clinical trial sample testing
- Experienced in leading and working within interdisciplinary research teams
- Proficient in using data analysis software for accurate interpretation.
- Strong ability to plan experiments, troubleshoot issues, and ensure high-quality results.
- Excellent team player with effective communication and presentation skills.
- Analytical Testing: Titrations, pH testing, Specific Gravity, Compatibility assessments
- Sample Preparation for HPLC and ICP techniques

EMPLOYMENT HISTORY

Medical Laboratory Intern

2018-2019

Bir Hospital, Kathmandu, Nepal

- Actively involved in conducting protein-based assays to evaluate therapeutic compounds, particularly small-molecule inhibitors and monoclonal antibodies used in cancer research.
- Played a vital role in data analysis using Microsoft Excel, helping streamline lab workflow and optimize assay protocols.
- Regularly participated in team discussions, contributing to process improvements and troubleshooting efforts.
- Provided dedicated support during audits, maintained accurate documentation, and assisted patients with care and attention.

Bir Hospital, Kathmandu, Nepal

2020 - 2023

Microbiology Laboratory Technician

- Curiously worked closely with by analyzing patient samples, like blood or tissue, to pinpoint specific pathogens causing infections. For example, identifying *Staphylococcus aureus* in a patient's blood can confirm a bloodstream infection, guiding doctors in choosing the right antibiotic.
- Microbiology departments play a critical role in monitoring infection trends within the hospital. For instance, if there's an increase in *Clostridium difficile* cases after certain antibiotic treatments, microbiologists help trace the source and implement measures to prevent the spread, ensuring a safe environment for patients and staff.
- Energetically perform tests on bacteria to determine which antibiotics are most effective, such as assessing *Escherichia coli* for resistance. This valuable information supports doctors in choosing the most effective treatments, helping to prevent unnecessary antibiotic use and reduce the risk of antibiotic resistance.

- Actively involved in conducting mammalian cell culture, maintaining strict sterile techniques to ensure optimal growth and viability of cells for various research purposes.
- Continuously maintaining a sterile environment by regularly disinfecting work surfaces, using filtered air flow hoods, and implementing single-use sterile materials.
- By making sure that every team member adhered to proper procedures, such as wearing appropriate protective gear and using sterile tools.
- Closely monitored the cultures for contamination, quickly discarding any affected ones to avoid cross-contamination that allowing for reliable and reproducible results.
- involved training junior lab assistants in tissue culture practices and assay execution, as well as presenting research findings to stakeholders, contributing to the lab's success in identifying potential drug candidates.
- Led laboratory teams in conducting research and quality control projects, maintaining adherence to best practices.

Signature Flatbreads Pvt. Ltd.

2024-Present

Quality controller

- Actively conducted microbiological and chemical tests on dough and baked products to ensure they meet safety and quality standards.
- Regularly monitored product stability and shelf-life through periodic testing, ensuring that the product maintains quality throughout its intended life.
- Inspected packaging for defects and ensured proper sealing and labeling to maintain product freshness and compliance with food labeling regulations.
- Worked alongside the production team to optimize baking processes, identifying opportunities for improving product quality and reducing wastage.
- Investigated and resolved customer complaints regarding product quality, providing feedback to production for continuous improvement.
- Ensured that all products meet national and international food safety standards, including FSSAI, ISO, and local guidelines.
- Monitored and ensure the usage of ingredients, ensuring they meet quality standards and are properly stored to prevent contamination or spoilage.
- Prepared detailed reports on quality control results, analyzing data trends and presenting findings to senior management for decision-making.
- Investigated non-conformities in production, developing and implementing corrective actions to prevent recurrence and improve quality control systems

Certifications & Training

- Biology Research Training Program
- Laboratory Safety Certification
- Good Laboratory Practice (GLP) Training

TECHNICAL SKILLS

- Microbiological Testing
- HPLC and ICP methods
- Textual Analysis & Feedback
- Aseptic Techniques
- Data Analysis and Interpretation
- Root Cause Analysis
- Quality Documentation and Recordkeeping
- MS Excel, MS Word, SPSS, GraphPad Prism

Soft skill

- Leadership
- Communication

- Time management
- Adaptability
- Critical Thinking
- Problem-Solving

INTERESTS

I enjoy staying updated with scientific literature and experimenting with new lab techniques. Cooking allows me to apply a methodical approach, while documentaries on science and biology fuel my curiosity. I also like volunteering in community science events to share knowledge and connect with others.

REFERENCES

Available upon request