

NISA HAKIM SALSABILA

nisahakim90@gmail.com | +62 852-6936-7025 | Lampung
<https://www.linkedin.com/in/nisa-hakim-salsabila-83050028a>

Biology (International Program) graduate from Universitas Jenderal Soedirman with professional experience at **LPPOM MUI's ISO/IEC 17025-accredited laboratory**. Skilled in foodborne pathogen detection, microbiological method verification and validation based on international ISO standards, and implementing **Good Laboratory Practices (GLP)**, **Good Manufacturing Practices (GMP)**, and **HACCP** protocols to support **food safety and halal compliance**. Eager to contribute as a **Microbiology Analyst**, **Quality Assurance (QA)**, or **Quality Control (QC) Officer**.

PROFESSIONAL EXPERIENCES

LPPOM MUI Laboratory | Bogor, Indonesia

Microbiology Analyst Intern

(Feb 2025 – Sep 2025)

- Support Research and Development Project for 3 parameters a month, executing microbiological testing on 30+ samples/day across food, pharmaceutical, and cosmetic products for different analytical parameters using aseptic techniques and ISO-based methods.
- Conducted analytical method verification and validation routines to evaluate testing performance, accuracy, and analytical reliability.
- Prepared culture media and quality control materials while implementing strict laboratory hygiene and contamination control protocols.
- Maintained analytical instrumentation, compiled technical verification data, prepared analytical reports, and supported internal audits within an accredited quality management environment.

Key Standards: ISO 16140-3:2021, ISO 6579, ISO 16649, ISO 11290, ISO 10272, ISO 21872, ISO 22717, ISO 22718, ISO 11731, ISO 11133, ISO 7218, ISO/IEC 17025, HACCP, GMP, GLP, GDP.

Biomolecular Analyst Intern

(Aug 2025 – Sep 2025)

- Executed DNA-based molecular testing workflows for product authenticity and halal verification following laboratory SOPs.
- Extracted genomic DNA from diverse sample matrices and assessed template quality to ensure optimal conditions for downstream amplification.
- Prepared reaction master mixes, template controls, operated real-time PCR instrumentation, and performed post-amplification data interpretation.
- Managed molecular laboratory documentation, reagent traceability, and equipment readiness under quality compliance standards.

Key Instruments: PowerAmp96 System, NanoDrop Spectrophotometer, Biosafety Cabinets, Incubator, Refrigerated Centrifuges, Vortex Mixers, Micropipettes.

Jenderal Soedirman University | Purwokerto, Indonesia

Product Quality Testing Techniques Practicum Assistant

(Jul 2024 – Dec 2024)

- Supervised and trained 60+ undergraduate students in product quality testing, technical operations, and laboratory safety protocols.
- Prepared analytical reagents, culture media, and test samples required for physical, chemical, and biological testing modules.
- Evaluated student performance, graded experimental reports, and maintained documentation for continuous curriculum optimization.
- Enforced strict laboratory quality and safety standards to achieve zero safety incidents.

Key Competencies: Technical Mentorship, Student Supervision, Communication, Document management.

Microbiology Laboratory Technique Practicum Assistant

(Jul 2024 – Dec 2024)

- Instructed 60+ students on microbial isolation, gram staining, and enumeration techniques, enforcing strict HACCP-aligned hygiene and contamination control in work areas.
- Formulated and sterilized culture media & reagents in compliance with laboratory quality standards, maintaining full media inventory and instrument readiness.
- Operated, calibrated, and maintained core microbiology instruments to guarantee precision and repeatability during practical runs.
- Managed practical logbooks, experimental evaluations, and safety compliance reports.

Key Competencies: Equipment Calibration & Maintenance, Media Inventory Management, Practical Instruction.

LEVEL EDUCATION

Jenderal Soedirman University | Purwokerto, Indonesia

Bachelor of Science of Biology

(Sep 2022 – May 2026)

- GPA : 3.47 out of 4.0.
- Conducted undergraduate thesis research entitled “Detection of Salmonella spp. Contamination in Raw Chicken from Two Traditional Markets in Bogor: A Comparative Study of Culture-based and Molecular Methods”, utilizing both conventional microbiological (ISO 6579-1: 2017) and molecular techniques (Real-Time PCR) for pathogen detection and comparative analysis.
- **Relevant Coursework:** Microbiology, Food Microbiology, Industrial Microbiology, Mycology, and Molecular Biology.

SKILLS

- **Laboratory Skill:** Microbiological Testing, Pathogen Detection, Food safety, Verification and Validation, qPCR, Data Analysis, QA, QC, R&D, GLP, HACCP, GMP, GDP.
- **Soft Skill:** Communication & Teamwork (Bahasa Indonesia & English-Intermediate), Analytical Thinking, Attention to Detail, Problem Solving, and Time Management.
- **Tools:** Microsoft Office, Google Workspace, Canva.

TRAINING & CERTIFICATION

- Food Microbiology Analyst 2026 - Mindo Education
- Microsoft Office Specialist 2023 - Jenderal Soedirman University
- Google Earth Engine 2024 - Askara Laboratory
- Leadership 2025 - Jenderal Soedirman University

ACHIEVEMENTS

2024

- Recipient of the Jenderal Soedirman University Student Entrepreneurship Program 2024 funding.
- National Business Plan Competition Semifinalist in IDEAS Gadjah Mada University Batch 10.

2023

- PKM Rektor Cup III Finalist in PKM-Riset Eksakta University of Jenderal Soedirman 2023.
- National Essay Competition Science Week 2023 Semifinalist in Sebelas Maret University.
- Gold medal in International Invention and Innovation Show INTARG POLAND 2023.

ORGANIZATIONAL EXPERIENCES AND VOLUNTEER

Biology Soedirman Competition | Purwokerto, Indonesia

(Apr 2024 – Nov 2024)

Publication, Design and Documentation

- Designed promotional materials (posters and flyers) and managed official social media platforms (TikTok and Instagram).
- Served as event photographer, capturing and delivering 100+ high-quality documentation photos.

National Ideology Education Community | Purwokerto, Indonesia

(Oct 2022 – Nov 2023)

External Relation Staff

- Coordinated external communications, logistics, and participant engagement for community outreach activities.
- Managed professional correspondence, administrative documentation, and post-event evaluation reports.

Workshop on Handling Batik Waste | Purwokerto, Indonesia

(Sep 2023)

Project Management Staff

- Assisted in event planning, timeline management, task allocation, and operational troubleshooting during the workshop.
- Summarized discussion outcomes on batik waste solutions for inclusion in the final project and environmental recommendations report.

Mangrove Replant in Unsoed | Kebumen, Indonesia

(Sep 2023)

Participant

- Contributed to coastal conservation by planting 1,000 mangrove trees to mitigate coastal erosion and restore marine ecosystems.
- Engaged in environmental safety training and collaborated with local communities to ensure long-term program sustainability.