



MUHAMMAD RIZKY ALFATAH

Quality Control | Quality Assurance | R&D

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PROFESIONAL SUMMARY

A Chemistry graduate from Universitas Islam Negeri Syarif Hidayatullah Jakarta with hands-on experience in the food, pharmaceutical, and microbiology research industries through roles at PT Indofood CBP Sukses Makmur Tbk, PT Biotis Pharmaceuticals Indonesia, PT Haldin Pacific Semesta, and BRIN Serpong. Experienced in performing Incoming Quality Control (IQC), In Process Control (IPC), physical, chemical, and microbiological testing, as well as operating laboratory instruments such as HPLC, GC-MS, UV-Visible Spectrophotometer, and various analytical laboratory equipment. Conducted testing on 250+ raw material and product samples, prepared 150+ testing result documentations, performed 30+ titration analyses, cultivated 20+ microorganism isolates, and extracted 10+ secondary metabolite samples in accordance with SOP, GLP, GMP, CPOB, and GDP standards. Contributed to supporting approximately 80% of raw material quality control processes during placement at PT Indofood CBP through consistent inspection, laboratory analysis, and QC documentation. Possesses strong competencies in Quality Control, Quality Assurance, analytical instrumentation, and laboratory documentation, with a strong focus on accuracy, regulatory compliance, and continuous product quality improvement.

CORE COMPETENCIES

- Laboratory Chemical Analysis
- Sample Preparation and Testing
- Good Laboratory Practice (GLP)
- Good Manufacturing Practice (GMP) and CPOB
- Occupational Health and Safety in Laboratory
- Laboratory Instrument Operation
- Hazardous Material (B3) Management
- Basic Microbiology and Biotechnology
- Quality Control and Quality Assurance
- Laboratory Documentation and Data Processing

EDUCATIONAL

UNIVERSITAS ISLAM NEGERI SYARIF HIDAYATULLAH JAKARTA

June 2021 - July 2025

Bachelor's Degree in Chemistry (GPA 3.24/4.00)

- Undergraduate Thesis:** Synthesis, Characterization, and Antibacterial Activity of Silane-Functionalized Ag/SBA-15 Composites.
- Research Interests:** Instrumental Analytical Chemistry, Physical Chemistry, Mineral Chemistry, Analytical Instrumentation, Environmental Chemistry, Chemical Laboratory Techniques, Biotechnology, Quality Control, and Occupational Health and Safety (OHS).
- Highlight:** Selected as a recipient of the Smart Indonesia Card Scholarship from the Ministry of Education, Culture, Research, and Technology, providing financial support for higher education based on eligibility criteria and academic commitment. Actively involved in organizing committees for new students and Chemistry Study Program activities, gaining experience in event coordination and student collaboration.

CERTIFICATES

- Quality Assurance (QA) in Food Industry, Becoming More Expert2026
- Instrument Gas Chromatography Mass Spectrometry (GCMS), TemanLab, 2026
- QAQC in the Pharmaceutical Industry, TemanLab, 2025
- A Comprehensive Monitoring Solution to Optimize Industrial WWTP Efficiency, TemanLab, 2025

WORK EXPERIENCES

PT INDOFOOD CBP SUKSES MAKMUR TBK

January 2026 - July 2026

Quality Control Raw Material

- Performed Incoming Quality Control (IQC) on 100+ raw material samples monthly by verifying compliance with quality specifications before use in the production process.

- Conducted physical and chemical parameter analyses of raw materials, including **Moisture Content (MC), pH, and organoleptic testing**, according to laboratory methods and company quality standards.
- Performed **sampling, sample preparation, and laboratory testing** based on **Standard Operating Procedures (SOPs)** to ensure analytical accuracy.
- Documented **100+ test results** through logsheets and QC documentation systems to support raw material **release or rejection decisions**.
- Coordinated with **Quality Assurance (QA), Warehouse, and Production teams** to ensure raw materials met quality standards prior to production.

Tools: Microsoft Office, Laboratory Equipment, Quality Control Documentation System, SOP Documentation.

Key Achievement: Supported approximately **80% of raw material quality control processes** through consistent **inspection, laboratory testing, and QC documentation** in accordance with company standards.

PT BIOTIS PHARMACEUTICALS INDONESIA

November 2025 - January 2026

IPC Visual Inspection & Media Buffer Preparation

- Performed **In Process Control (IPC)** through visual inspection of **20+ vaccine vial units** to ensure product quality compliance during the manufacturing process.
- Prepared **5+ batches of buffer media and production supporting materials** according to operational procedures to ensure production readiness.
- Applied **Good Manufacturing Practice (GMP), CPOB, and Good Documentation Practice (GDP)** principles in production activities and quality inspections while maintaining pharmaceutical industry standards for hygiene, safety, and documentation.
- Recorded and verified IPC inspection results through production documents and **quality records** to support traceability and regulatory compliance.
- Coordinated with **Production and Quality Control teams** to ensure inspection results, production materials, and process documentation met established quality standards.

Tools: GMP Documentation, CPOB Standard, Good Documentation Practice (GDP), Laboratory Equipment.

Key Achievement: Supported vaccine product quality control processes by conducting IPC inspections on **25+ vial units** and maintaining quality records in compliance with pharmaceutical manufacturing standards.

PT HALDIN PACIFIC SEMESTA

October 2025 - November 2025

Quality Control (Internship)

- Conducted **quality testing on 50+ liquid and powder beverage raw material samples** through physical and chemical analyses in accordance with company quality standards.
- Performed chemical component analysis using laboratory instruments, including **UV-Visible Spectrophotometer, High Performance Liquid Chromatography (HPLC), and Gas Chromatography Mass Spectrometry (GCMS)** to support material identification and quality evaluation.
- Performed **30+ concentration analyses using acid-base titration methods**, including standard solution preparation, reagent preparation, and sample preparation prior to testing.
- Conducted basic calibration and readiness checks of **5+ laboratory instruments** before analysis to ensure testing accuracy.
- Documented **50+ laboratory test results** according to **Standard Operating Procedures (SOPs)** and **Good Laboratory Practice (GLP)** to support quality control systems.

Tools: HPLC, GC-MS, Microsoft Excel, Laboratory Equipment.

Key Achievement: Supported **Quality Control activities** by conducting **50+ laboratory analyses**, operating analytical instruments, and processing test data to ensure product quality compliance.

LAPTIAB BRIN SERPONG

January 2024 - February 2024

Research (Internship)

- Conducted **endophytic fungal isolation research from mangrove plants** using aseptic techniques to obtain potential microorganism isolates.
- Cultivated **20+ microorganism isolates** using **Potato Dextrose Agar (PDA)** and **Potato Dextrose Broth (PDB)** media to support microbiological research activities.
- Performed extraction of **10+ secondary metabolite samples** using the maceration method with organic solvents as preparation for bioactive compound analysis.

- Conducted antibacterial activity testing against *Escherichia coli* and *Staphylococcus aureus* using the Kirby Bauer (Disk Diffusion) method.
- Documented results from 20+ laboratory testing processes while applying Good Laboratory Practice (GLP), laboratory SOPs, and Occupational Health and Safety (OHS/K3) principles throughout research activities.

Tools: Microbiology Laboratory Equipment, PDA/PDB Media, Microsoft Excel, Laboratory Documentation.

Key Achievement: Contributed to microbiological research through the isolation and cultivation of 20+ microorganism isolates, secondary metabolite extraction, and antibacterial activity testing in accordance with GLP standards and laboratory procedures.

ORGANIZATION AND COMMITTEE

- **Chairperson**, Community Service Program, Syarif Hidayatullah State Islamic University Jakarta | July 2024 - August 2024

Impact: Led the Community Service Program team in executing work programs in Rawa Mekar Jaya Urban Village by coordinating task distribution, communicating with local officials and the community, and monitoring activities to ensure all programs proceeded according to targets and schedules. Prepared documentation and final reports to account for the implementation of the activities.

ADDITIONAL SKILLS

- **Software Skills:** Microsoft Office (Word, Excel, PowerPoint), SPSS, Origin.
- **Soft Skills:** Public Speaking, Communication Skills, Stakeholder Management, Event Coordination, Leadership, Team Collaboration, Problem Solving, Creative Thinking, Time Management, Professional Etiquette, Adaptability, Attention to Detail, Negotiation Skills.
- **Languages:** English (Intermediate).