



TALITHA AMELIA BUDIYATI

CHEMICAL ANALYSIS

IPB UNIVERSITY

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SUMMARY

A Chemical Analysis graduate from IPB University, have developed strong expertise in product analyzing, operating laboratory instruments (ICP-OES, AAS, and UV-Vis Spectrophotometry), executing method validation and verification in accordance with laboratory procedures. I have a deep understanding of Good Laboratory Practice (GLP), ISO/IEC 17025, and Occupational Health and Safety (OHS), which enable me to manage laboratory processes effectively, ensuring accuracy and reliability in the analytical results while maintaining documentation and reporting data standards. I am seeking to find the opportunity to work in Quality Control (QC) and Laboratory Analysis. I am known as a detail-oriented, analytical, and disciplined individual who is able to work independently as well as collaboratively in a team.

EDUCATION

D4 Chemical Analysis – IPB University

August 2021–August 2025

Graduated on Time – GPA 3.68/4.00 || Focus area: analytical, petrochemicals, environmental, pharmaceutical, food, and natural product chemistry, eager to contribute to quality control and research development in modern laboratories.

EXPERIENCE

PT Pupuk Kujang

Method Verification Analyst and Laboratory Administrator

December 2025–Present

- Conducted verification of DEF analytical methods for 15 parameters (refractive index, urea, alkalinity, biuret, insoluble matter, and trace elements) using ICP-OES and other analytical instruments until all parameters met method performance requirements.
- Prepared method verification reports and Work Instructions (WI) to support the implementation of DEF analytical methods in the laboratory.
- Controlled the documentation of 15+ test result sheets per day, achieving 95% administrative accuracy.

Research Analyst (Research Project)

December 2024–March 2025

- Conducted the development, optimization, and validation of an arsenic analytical method for NPK fertilizer using HGAAS until all parameters met method performance requirements.
- Prepared and managed chemical reagents and solutions through LAVENTIS, achieving a 100% fulfillment rate of laboratory requirements.

Quality Control Analyst (Internship)

July 2024–November 2024

- Conducted analysis of raw materials, fertilizers (NPK and urea), and utility samples (wastewater, demineralized water, cooling water, and boiler water) using HGAAS, FAAS, and UV-Vis Spectrophotometry in accordance with laboratory procedures.
- Developed and implemented NPK and urea fertilizer control samples to support internal quality control.
- Conducted method verification, calibrated glassware, prepared chemical reagent, and standardized chemical solution.
- Applied GLP, ISO/IEC 17025, and OHS principles in testing, method verification, as well as documenting and reporting data.

Expertise Interest Project: Deep-Bio-Exfoliating Gel D'Excafee

January 2024–June 2024

Research and Development, Analyst

- Designed and developed a Deep-Bio-Exfoliating Gel based on papain enzyme and Arabica coffee powder through enzyme isolation and laboratory analysis to obtain an optimal-quality formulation.
- Presented the product to 100+ visitors through direct promotion at the Vocational Project Exhibition.

UPTD Laboratorium Kesehatan Daerah Kota Bekasi (Internship)

July 2023

Quality Control Analyst

- Conducted analysis 140+ water samples (drinking water, clean water, raw water, and wastewater) using FAAS and UV-Vis Spectrophotometry in accordance with laboratory procedures.
- Managed the administration of more than 10 samples, including sample receipt, recording, processing, and test report preparation in accordance with GLP and ISO/IEC 17025.

TRAINING AND CERTIFICATION

- **Fundamental, Operation, and Optimization of AAS GBC Training** – PT Deltasindo Global Scientific January 2025
- **Validation And/Or Verification of Test Methods Training** – PT Galvanis Arunika Nusantara December 2024
- **Occupational Health and Safety (OHS) Operator Certification** – BNSP – LSP Teknik Tambang Indonesia
Certificate No.: 78000 2263 0030965 2024
Date of Issue: 7 November 2024 | Valid Until: 7 November 2027
- **ISO/IEC 17025 Laboratory Competence Management System Training** – PT Yura Prima Solusindo May 2022

ORGANIZATION

Village Community Empowerment Program

July 2023–November 2023

Staff of Sponsorship Division

- Initiated sponsorship and partnership opportunities with companies and institutions to support an organic waste-to-fertilizer program.

Himpunan Mahasiswa Vokasi Likista

September 2021–October 2023

Staff of Student Resource Development Departement

- Planned and organized national-level workshops, training programs, and competitions while serving as a Moderator, Executive Secretary, and Division Head to support student competency development.
- Evaluated and improved work programs, contributing to a 15% increase in student participation.

Medical Team

September 2021–November 2022

Staff of Service Community Departement

- Planned and implemented health education and community service programs to support public awareness and emergency preparedness.
- Organized a blood donation campaign involving 50+ donors.

SKILLS

- Conventional Methods: Gravimetric, Volumetric, dan Proximate.
- Instrumental Methods: ICP-OES, HGAAS, FAAS, UV-Vis Spectrophotometer, Kjeldahl Analyzer, Karl Fischer Titrator, Potentiometric Autotitrator, Moisture Balance, BOD Meter, COD Meter, DO Meter, TDS Meter, Brookfield Viscometer, Refractometer, Turbidimeter, Conductivity Meter, and pH Meter.
- Quality Control and Quality Assurance: Method Validation and Verification, Enviromental and Product Analysis, Instrument and Glassware Calibration, Documentation and Report Data, ISO/IEC 17025 (Testing and Calibration Laboratories), GLP, and ISO 9001 (Quality Management System).
- Research and Development: Cosmetic Formulation Development, Enzyme Isolation, and Product Quality Optimization.
- Microsoft Office: Microsoft Word, Microsoft Excel, and Microsoft PowerPoint.
- Analytical Thinking, Detail-oriented, Discipline, Responsibility, Communication, and Teamwork.