



ADINDA ZAHIRA HANAFI

Analytical Chemistry | R&D Analyst (Formulation & Analytical)

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Summary

Analytical Chemistry graduate with hands-on experience in product formulation and laboratory analysis. Experienced in conducting formulation trials, stability testing, and physicochemical evaluation to support product development and performance improvement. Skilled in instrumental analysis (HPLC, FTIR, GC-MS) and familiar with GLP and ISO 17025 standards. Able to interpret analytical result into practical insights for formulation refinement and consistent product quality.

Education

IPB University – Bogor, Indonesia

Aug 2021 – Aug 2025

Bachelor of Applied Science in Analytical Chemistry, GPA: 3.23 / 4.00

Research Projects

- Soap Formulation with Lemongrass Extract (*Cymbopogon citratus*) Based on VCO
- Optimization of Acne Patch Formulation using Chitosan–PVA Polymer and Lemon Extract
- KOBILIPS: Lip Scrub Formulation with Bidara Leaf Extract and Robusta Coffee Powder
- Effect of Tea Leaf Extraction Temperature using Ultrasonic Method and Its Application for Fe³⁺ Ion Detection in Water

Work Experiences

Product Development Intern

Nov 2025 – Present

PT Zeus Kimiatama Indonesia (ZEKINDO)

- Conducted formulation trials to improve product performance, stability, and consistency across applications.
- Evaluated physicochemical properties (pH, viscosity, water content, solid content, lovibond) during development stages.
- Analyzed test results to support formulation refinement and optimize product characteristics.
- Utilized FTIR for material characterization and development validation.
- Documented trial results and prepared technical reports to support product development processes.

Research Student
National Research and Innovation Agency (BRIN)

Jan 2025 – Jun 2025

- Prepared and processed 100+ samples to support bioethanol research with consistent laboratory execution.
- Performed analytical testing using HPLC and spectrophotometry to evaluate experimental outcomes.
- Processed and interpreted analytical data to support research findings and development decisions.
- Maintained laboratory workflow to ensure timely completion of research activities.

Research and Development Intern
PT Haldin Pacific Semesta

Jul 2024 – Nov 2024

- Supported product development from formulation stage to prototype evaluation for natural-based products.
- Conducted laboratory trials and stability testing to assess product performance and shelf-life.
- Performed instrumental analysis (GC-MS, TLC, spectrophotometry) for compound identification and evaluation.
- Collaborated with cross-functional teams to align product development with technical requirements.
- Documented development progress to support product traceability and internal evaluation.

Organizational Experience

Medical Team Member – SV IPB

Jan 2023 – Dec 2023

- Assisted in handling basic medical needs during campus activities and ensured readiness of medical equipment.
- Coordinated with team members to maintain responsiveness and proper handling in emergency situations.

Certifications and Training

- **Market Research & Trend Analysis for Beauty Industry** – Teman Formulasi **2026**
- **Skincare Formulation Innovation (Developing Modern Skincare Products)**
– Teman Formulasi **2026**
- **Hair & Body Care Formulation** – Teman Formulasi **2026**
- **Occupational Safety and Health Operator (K3)** – BNSP **2024**
- **ISO 17025:2017 Laboratory Management System** – Makin Ahli **2024**
- **Good Laboratory Practice (GLP)** – Makin Ahli **2024**

Software Skills

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- OriginLab

Core Skills

Product Formulation | Product Development | Laboratory Trials | Stability Testing | Physicochemical and Analytical Testing | Instrumental Analysis (FTIR, HPLC, GC-MS, TLC, UV-Vis) | Analytical Data Validation | Technical Reporting | Good Laboratory Practice (GLP) | ISO 17025 Compliance | Laboratory Safety (K3) | Analytical Thinking | Attention to Detail | Problem Solving | Team Collaboration | Communication | Time Management