

ALISA RAHMA LESTARI

+62895333645150 | lestarialisarahma@gmail.com | linkedin.com/in/alisarahmalestari

Bandung, West Java, 40191

Detail-oriented **Chemical Analysis Graduate** with hands-on analytical laboratory experience in industrial R&D at PT Kimia Farma and research laboratory at BRIN. Experienced in conventional analytical methods (titration, gravimetry) and instrumental analysis (**HPLC, FTIR, GC, UV-Vis, Karl Fischer**), including sample preparation and standard testing. Familiar with method validation, material synthesis, and laboratory documentation in accordance with Pharmacopeia standards (FI/USP/BP), GLP, and CPOB/GMP, supported by training in ISO/IEC 17025:2017 and laboratory safety (K3). Seeking to build a career in the industrial sector, particularly in analytical chemistry, Research and Development (R&D), Quality Control (QC), and laboratory analysis, while being open to exploring other relevant career opportunities.

Education

Bandung State Polytechnic - Bandung, West Java

Aug 2023 - Aug 2026

Diploma in Chemical Analysis, GPA: 3.17/4.00

- **Relevant Coursework:** Analytical Chemistry, Pharmaceutical Chemistry, Food Chemistry, Inorganic Chemistry, Microbiology, Instrumental Analysis (Spectroscopy & Chromatography), Analytical Chemistry (Volumetric & Gravimetric), Method Validation & Verification, Laboratory Quality Management (GLP / ISO/IEC 17025).

State Vocational High School 5 Bandung - Bandung, West Java

Jul 2019 - Jul 2023

Vocational High School Diploma in Chemical Analysis

Internship Experiences

PT Kimia Farma Tbk. (Banjaran Plant) - Bandung, West Java

Jun 2025 - Aug 2025

Research and Development (R&D) Analyst Intern

- Conducted pharmaceutical raw material testing using various analytical instruments, including HPLC, FTIR, GC, Karl Fischer, ICP-OES, and UV-Vis spectrophotometer, as well as conventional methods including titration and gravimetry, evaluating results against established specifications.
- Performed analytical method validation and verification with repeat testing to assess accuracy, precision, and reproducibility in accordance with FI/USP/BP requirements, including method validation for Gliclazide and method verification for Pantoprazole Sodium and Rifampicin.
- Identified and troubleshoot sample preparation challenges for highly viscous pharmaceutical raw materials, developing an improved dissolution and volumetric transfer procedure approved by the laboratory supervisor for accurate quantitative analysis.
- Prepared analytical reports and test documentation in accordance with Good Laboratory Practices (GLP) and CPOB/GMP, supporting data traceability and reliable laboratory records.

National Research and Innovation Agency (BRIN) - Bandung, West Java

Jul 2022 - Nov 2022

Research Assistant Intern

- Performed separation, purification, and analysis of radiopharmaceutical compounds (Holmium-166 Chloride & Thulium-170 Hydroxyapatite) using column and paper chromatography, evaluating radiochemical purity and labeling efficiency to verify compound quality.
- Conducted stability testing of labeled compounds using Multi-Channel Analyzer (MCA) and Single-Channel Analyzer (SCA), processing and analyzing experimental data in Excel to assess compound stability over time.

Academic & Research Projects

Final Year Project – Solid Electrolyte Material Synthesis

Feb 2026 - Jul 2026

- Synthesized Calcia-doped Ceria (CDC) solid electrolytes via wet-chemical coprecipitation for IT-SOFC applications, managing precise precursor stoichiometry, analytical weighing, and high-temperature furnace sintering optimization.
- Performed conductivity testing of the prepared solid electrolytes at various temperatures and analyzed the resulting data to evaluate electrolyte conductivity performance.
- Analyzed and interpreted characterization data from SEM-EDS and XRF to evaluate elemental composition, phase purity, and surface morphology of the prepared electrolyte pellets.

Project-Based Learning (PBL) – Analytical Chemistry

Feb 2025 - Nov 2025

- Inorganic Material Synthesis: Synthesized and characterized Iron (III) Phosphate from natural hematite precursor materials through acid leaching and precipitation routes.
- Essential Oil Extraction & Quality Assessment: Performed steam distillation to extract essential oil from citronella grass, characterizing physical and chemical parameters including specific gravity and refractive index.
- Food Proximate Analysis: Conducted comprehensive proximate testing (moisture, ash, protein, and fat content) on tempeh chip samples using standardized testing methods based on SNI (Indonesian National Standards).

Organisational Experience

Himpunan Mahasiswa Jurusan Teknik Kimia - Bandung, West Java

Jan 2024 - Jan 2026

Information Technology Staff

- **Project Lead – Big Data (Official HMJTK Website):** Led a 6-member team responsible for managing and regularly updating the official HMJTK website, ensuring monthly publication of student resources, career opportunities, training programs, and departmental announcements.
- **Coordinator of Documentation & Design (PDD) – Creative Design Webinar:** Supervised an 8-member team in preparing visual assets, branding materials, and documentation workflows to support the successful execution of the department's design webinar.

Training

- **SNI ISO/IEC 17025:2017 Training** - 2026
- **Laboratory Health and Safety (K3) Training** – 2026

Technical Skills & Languages

- **Analytical Instruments:** UV-Vis Spectrophotometer, HPLC, Gas Chromatography, FTIR, Karl Fischer, ICP-OES
- **Laboratory Techniques:** Sample Preparation, Leaching, Acid Digestion. Conventional (Titrimetric & Gravimetric) & Instrumental Analysis, Method Validation & Verification, Inorganic Material Synthesis, High-Temperature Furnace Operation, Laboratory Documentation
- **Laboratory & Quality Systems:** Good Laboratory Practices (GLP), Good Manufacturing Practices (GMP/CPOB), ISO/IEC 17025
- **Software:** Microsoft Word & Microsoft Excel
- **Languages:** Indonesian (Native) & English (Intermediate)