

CHRISTY LOVANNA PALEN SIMATUPANG

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SUMMARY

Fresh Chemistry graduate from Universitas Brawijaya with hands-on experience in an ISO/IEC 17025-accredited laboratory, performing analytical testing, method validation, and GLP-compliant documentation. Proficient in spectrophotometric and titrimetric analysis methods, sample preparation, and quantitative validation, achieving $R^2 \geq 0.99$ and 95–102% recovery across multiple validated methods. Eager to bring analytical rigor and quality compliance to a laboratory-based analytical role.

EDUCATION

Universitas Brawijaya – Malang, Indonesia **Aug 2022 – Jul 2026**
Bachelor of Science in Chemistry – GPA: 3.59/4.00

- Served as a Laboratory Teaching Assistant for 10+ biochemistry practical sessions, ensuring readiness and compliance for 40 students per session.
- Conducted undergraduate research in analytical method development, applying data analysis and process optimization.

WORK EXPERIENCE

PT Superintending Company of Indonesia – Cibitung, Indonesia **Aug – Nov 2025**
Chemical Analyst – Internship

- Executed analytical testing on 100+ environmental and industrial samples in an ISO/IEC 17025 accredited laboratory while ensuring compliance with SOPs, accurate documentation, and timely reporting.
- Performed 10+ testing parameters per batch using standardized analytical methods, achieving $R^2 \geq 0.9982$ and 95–102% recovery in compliance with SNI, APHA, USEPA, and PP RI No. 22/2021.

PROJECTS

Nitrate (NO_3^-) and Nitrite (NO_2^-) Analysis in TCLP Samples

- Performed nitrate and nitrite analysis on TCLP samples, achieving $R^2 = 0.9982\text{--}1.000$ and 95.85–102.89% recovery while ensuring data accuracy and compliance with quality standards.

Organochlorine Pesticide Residue Analysis in Wastewater Using GC-ECD

- Performed chromatogram interpretation, peak integration, and QC verification for GC-ECD analysis of organochlorine pesticide residues, supporting sample preparation and instrument operation.

Determination of Boron (B) in B3-Contaminated Soil

- Conducted boron analysis on hazardous waste-contaminated soil, achieving $R^2 = 0.9992$ and 99.37% recovery while ensuring data reliability and environmental compliance.

Detection of Aluminum(III) in Deodorant Products Using μ PAD and Natural Colorimetric Reagent

- Developed, optimized, and validated a μ PAD-based method for Aluminum(III) analysis, achieving $R^2 = 0.9954$, LOD 0.178 mg/L, LOQ 0.592 mg/L, and 90.13–107.98% recovery within the 80–120% acceptable range.

ORGANIZATIONAL EXPERIENCES

Malang International Model United Nations (MAINMUN) 2025 **Feb 2025**
Delegate Relations Staff

- Coordinated communication across 20+ delegations and resolved procedural issues to support smooth execution and compliance with event requirements.

Chemistry Beyond Bonder Symposium (CBBS) 2024 **Oct 2024**
Committee

- Reviewed and verified 100+ scientific posters and presentation materials against exhibition standards, ensuring content accuracy, consistency, and compliance prior to final publication.

Department Student Orientation Program (Alkalic Chemistry) 2023 **Sept – Oct 2023**
Creative Media, Publication & Documentation Staff

- Managed and maintained 50+ documentation and publication records per session, ensuring record consistency, traceability, and timely delivery across event operations.

CERTIFICATIONS

Makin Ahli Official

- Good Laboratory Practice (GLP)
- ISO/IEC 17025 – Laboratory Quality Management

Microsoft Office Desktop Application by Trust Training Partners

SKILLS

Technical Skills:

- Quality Systems: Good Laboratory Practice (GLP), ISO/IEC 17025, Documentation Control, SOP Compliance, QC Verification.
- Analytical Techniques: Chemical Analysis, Analytical Testing, Sample Preparation, Standard Solution Preparation, Titration, Method Validation.
- Instrumentation: UV–Vis Spectrophotometer, HPLC, FTIR, AAS, with exposure to ICP-OES and GC-ECD.
- Data Analysis: Microsoft Excel (PivotTables, data processing, charting), ImageJ, Gnuplot.
- Regulatory Standards: SNI, APHA, USEPA Standard Methods, PP RI No. 22/2021.

Interpersonal Skills: Analytical Thinking, Attention to Detail, Problem Solving, Collaboration, Adaptability.