

LASTRI

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South Tangerang, Banten

A Chemistry graduate with hands-on experience in laboratory testing, sampling, quality documentation, and process monitoring through laboratory research and internship in an oleochemical manufacturing plant. Experienced in physicochemical testing, instrumental analysis (FTIR, UV-Vis, PSA), SOP compliance, and accurate laboratory documentation. Detail-oriented and committed to supporting product quality, process consistency, and continuous improvement as a Quality Control professional

Education

Diponegoro University - Semarang, Central Java

Aug 2021 - Sep 2025

Bachelor of Science, 3.66/4.00

- Designed and developed curcumin nanoemulsion-based formulations for topical wound healing applications.
- Performed physicochemical and stability evaluation, including pH monitoring, organoleptic assessment, FTIR, UV-Vis spectrophotometry, and Particle Size Analyzer (PSA) to assess formulation quality.
- Conducted antioxidant assays, antibacterial testing against *S. aureus* and *E. coli* using the agar diffusion method, and in vivo wound healing studies to evaluate formulation performance.
- Analyzed experimental data using Origin, Microsoft Excel, and ImageJ to support formulation optimization and quality assessment.
- Awarded research funding through the 2024 Student Creativity Program in Exact Research (PKM-RE) by the Ministry of Education, Culture, Research, and Technology (Kemendikbudristek).

Professional Experiences

Louis Dreyfus Company - Bandar Lampung

Nov 2025 - May 2026

Palm Utility Intern

- Collected water and wastewater samples for routine operational monitoring in utility systems (Boiler, Water Treatment Plant, and Wastewater Treatment Plant).
- Monitored operational parameters through HMI and field inspections to ensure compliance with operating standards.
- Recorded and verified operational data in daily log sheets with high accuracy following SOP requirements.
- Supported chemical preparation and dosing activities while adhering to safety requirements.
- Collaborated with utility and cross-functional teams to support operational continuity in a manufacturing environment.
- Maintained a clean, organized, and safe utility work area by implementing 5S principles and complying with HSE standards.

Analytical Chemistry Laboratory - Diponegoro University

Aug 2024 - Dec 2024

Laboratory Assistant

- Prepared laboratory equipment, reagents, and materials for qualitative cation analysis practical sessions in accordance with laboratory procedures.
- Supervised and guided 40 students during practical sessions while ensuring compliance with laboratory safety practices.
- Evaluated students' laboratory reports and provided feedback on experimental results and laboratory practices.
- Collaborated with lecturers, laboratory technicians, and fellow teaching assistants to ensure practical sessions were conducted efficiently and according to established procedures.

Basic Chemistry Laboratory - Diponegoro University

Feb 2024 - Jun 2024

Laboratory Assistant

- Prepared laboratory equipment, reagents, and materials for acid-base titration practical sessions in accordance with laboratory procedures.
- Supervised and guided 41 students during practical sessions while ensuring compliance with laboratory safety practices.
- Evaluated students' laboratory reports and provided feedback on experimental results and laboratory practices.
- Collaborated with lecturers, laboratory technicians, and fellow teaching assistants to ensure practical sessions were conducted efficiently and according to established procedures.

National Research and Innovation Agency (BRIN) - Jakarta

Jan 2024 - Feb 2024

Research Intern

- Developed and evaluated acetylated agar and alginate formulations with various formulation compositions.
- Performed sample preparation, titration, FTIR characterization, and data interpretation to evaluate formulation properties.
- Documented and analyzed experimental data to evaluate formulation characteristics and ensure accurate reporting of laboratory results.

Organizational Experiences

Chemistry Student Association - Diponegoro University

Mar 2022 - Dec 2023

Secretary of Art and Sport Department

- Prepared and maintained over 20 administrative documents, including official letters, proposals, reports, and meeting minutes.
- Ensured document accuracy, completeness, and systematic record organization in accordance with administrative procedures.
- Collaborated with the chief secretary and committee members to coordinate departmental administrative activities.

Certification & Skills

- **Training** 📄 (2025): Sewage Treatment Plant (STP) & Wastewater Treatment Plant (WWTP) Training – Issued by PT Grinviro Biotekno Indonesia
- **Certification** 📄 (2023): K3 Laboratorium Awareness – Issued by PT Rasi Latih Nusantara; covering ISO 17025:2017, chemical handling, MSDS, and PPE.
- **Hard Skills**: Physicochemical Testing • Instrumental Analysis (FTIR, UV-Vis Spectrophotometry, Particle Size Analyzer) • Data Analysis & Interpretation • SOP & GLP Compliance • Microsoft Office (Word, Excel, PowerPoint) • Origin • ImageJ
- **Soft Skills**: Attention to Detail • Analytical Thinking • Continuous Learning • Initiative • Problem Solving • Team Collaboration • Adaptability • Communication
- **Languages**: Indonesian and English.