

Widia Oktavani Br Tarigan

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Chemistry Graduate (GPA: 3.63) with hands-on experience in laboratory analysis, chemical testing, and scientific research through laboratory internship and academic projects. Experienced in sample preparation, physicochemical and quantitative analysis, laboratory equipment operation, analytical data interpretation, and working according to SNI and laboratory SOPs. Knowledgeable in ISO standards, Good Laboratory Practice (GLP), quality control principles, and laboratory documentation, with strong attention to accuracy, data integrity, and compliance.

EDUCATION

UNIVERSITAS LAMPUNG

Bandar Lampung, Indonesia

Bachelor of Science in Chemistry

Aug 2022 – Aug 2026

- **Cumulative GPA:** 3.63 / 4.00
- **Relevant Coursework:** Analytical Chemistry, Applied Analytical Chemistry, Quality Control of Chemical Analysis, Laboratory Management, Environmental Chemistry, and Biochemistry.

INTERNSHIP EXPERIENCE

UPTD Laboratorium Lingkungan Dinas Lingkungan Hidup Provinsi Lampung

Lampung, Indonesia

Laboratory Analyst Intern (MBKM Program)

Oct 2024 – Jan 2025

- Operated analytical UV-Vis Spectrophotometer and performed routine performance checks or calibration verification to ensure accuracy, precision, and reliability of analytical results.
- Conducted physicochemical testing and quantitative chemical analysis (such as ammonia levels and water hardness) in accordance with SNI and laboratory SOPs to ensure reliable data.
- Applied Good Laboratory Practice (GLP) and 5R standards, ensuring proactive identification and management of analytical compliance or quality discrepancies.
- Performed sample preparation, reagent management, and field sampling across industrial sites, maintaining strict adherence to standard methods.
- Managed daily workflows by tracking test sample schedules, maintaining logbooks, and inputting analytical data into the lab management system.

ORGANIZATIONAL & VOLUNTEERING EXPERIENCE

GREEN HEARTS ID

Lampung, Indonesia

Volunteer

Mar 2026 – May 2026

- Organized eco-print workshops, sustainability counseling, and established a local waste bank.
- Participated in mangrove restoration and coastal clean-up activities to preserve the environment.

BEM FMIPA UNILA

Bandar Lampung, Indonesia

Staff of Women's Empowerment Department

Apr 2024 – Dec 2024

- Managed administrative operations, meeting minutes, and documentation compliance for a Gen-Z seminar on sustainable living.
- Led the event division team in planning and executing an anti-violence counseling programs, managing task delegation, event timelines, rundown concept, and contingency plans (Plan B) to ensure smooth execution.

HIMPUNAN MAHASISWA KIMIA (HIMAKI) FMIPA UNILA

Bandar Lampung, Indonesia

Staff of Chemistry Science and Reasoning Division

Feb 2023 – Dec 2023

- Coordinated a national-level scientific paper competition and served as the main moderator for the grand final session.
- Collaborated with an external organization to design and execute a specialized scientific paper and essay tutoring program.

PROJECTS

UNDERGRADUATE THESIS PROJECT

Bandar Lampung, Indonesia

Academic Research

Oct 2025 – Feb 2026

- Conducted laboratory research on coconut shell liquid smoke as a green scale inhibitor using analytical chemistry principles.
- Prepared and submitted samples for SEM, XRD, and PSA characterization, then analyzed and interpreted the resulting data to evaluate material properties and assess the effectiveness of the developed scale inhibitor.
- Analyzed experimental datasets to evaluate the effects of pyrolysis temperature and inhibitor concentration on scale inhibition performance.
- Documented experimental procedures, analyzed results, and compiled findings into a comprehensive technical report for the final thesis defense.

MOKUTAN & CO

Bandar Lampung, Indonesia

Oleochemistry Course Project (Laboratory Scale)

Apr 2023

- Formulated a laboratory-scale charcoal body soap by integrating oleochemistry principles, raw material evaluation, and quality optimization.
- Designed the product development process from initial concept to quality optimization, monitoring consistency against target specifications.

CERTIFICATIONS

**Makin Ahli
Jul 2026**

- Food Safety System Certification (FSSC 22000 Ver 7.0)
- Food Safety Management System (ISO 22000:2018)
- Good Manufacturing Practices (GMP)
- Hazard Analysis and Critical Control Point (HACCP)
- Quality Control (QC) in Food Industry

SKILLS AND LANGUAGES

SKILLS

- Technical Skills: Chemical Testing, Physicochemical Analysis, Quantitative Chemical Analysis, Sample Preparation, Reagent Handling, Laboratory Equipment Operation, UV-Vis Spectrophotometry, Laboratory SOP, SNI, Good Laboratory Practice (GLP), Quality Control Principles, Analytical Data Analysis, Microsoft Office Suite (Word, Excel, and PowerPoint).
- Soft Skills: Analytical Thinking, Critical Thinking, Attention to Detail, Problem-Solving, Effective Communication, Team Collaboration, Technical Reporting, Continuous Learning.

LANGUAGES

- Indonesian: Native Proficiency
- English: Professional Working Proficiency