



DINDA PUTRI ALIYANTI

CHEMISTRY GRADUATE | ANALYTICAL LABORATORY | QC & R&D | UV-Vis, AAS
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PROFESSIONAL SUMMARY

Chemistry graduate from Surabaya State University with a GPA of 3.69/4.00 and hands-on experience in analytical laboratory testing, research, and experimental work. Experienced in UV-Vis spectrophotometry, Atomic Absorption Spectrophotometry (AAS), sample preparation, calibration curve analysis, and laboratory data processing. Experienced in enzyme production, quantitative protein analysis, nutrient release analysis, and FTIR spectrum analysis through research and laboratory internships. Interested in Quality Control, Analytical Laboratory, and Research & Development roles.

EDUCATION

Surabaya State University – Surabaya, Indonesia

Aug 2022 – July 2026

Bachelor of Science in Chemistry - GPA 3.69/4.00

Undergraduate Thesis

Effect of PVA Variation on the Characteristics of Modified Chitosan Membranes for NPK Slow-Release Fertilizer Applications

- Evaluated nutrient release from NPK-loaded chitosan-PVA membranes over 30 days using AAS and UV-Vis spectrophotometry.
- Analyzed nutrient release kinetics using zero-order, first-order, Higuchi, and Korsmeyer-Peppas models.

RESEARCH & LABORATORY EXPERIENCE

Surabaya State University – Research Assistant (Lecturer Research Project) | 2026

- Analyzed FTIR spectra of modified chitosan membranes using OriginLab to support membrane characterization.
- Measured membrane thickness using Mitutoyo measuring equipment to evaluate physical membrane characteristics.
- Conducted soil degradation testing to evaluate membrane degradation behavior during a defined observation period.
- Processed and organized experimental data to support research analysis and documentation.

Surabaya State University – Teaching Assistant (Basic Chemistry Laboratory) | 2026

- Assisted 125 students throughout a semester-long chemistry laboratory practicum.
- Guided students in experimental procedures, laboratory equipment operation, data analysis, and theoretical concepts.
- Explained laboratory procedures and theoretical concepts while promoting safe laboratory practices.

Institute of Life Sciences, Engineering & Technology (LIHTR), Airlangga University – Research Intern (Internship)

Pusat Riset Rekayasa Hayati (BIOME) | Feb 2025 – Jun 2025

- Supported enzyme production using a 1 L laboratory-scale fermenter.
- Prepared laboratory reagents and performed **bacterial subculture** for enzyme production activities.
- Conducted quantitative enzyme protein analysis using spectrophotometric methods and calibration curves.
- Laboratory data processing and experimental activities.
- Laboratory equipment preparation and maintenance in accordance with established SOPs.

PUBLICATIONS & INTELLECTUAL PROPERTY

Publication

- Effect of PVA Variation on the Characteristics of Modified Chitosan Membranes for NPK Slow-Release Fertilizer Applications – First Author
UNESA Journal of Chemistry (SINTA 4), 2026.

Copyright

- DRACE – Dragon Fruit Ice Cream Product, copyright Certificate, Directorate General of Intellectual Property (DGIP), Indonesia, 2025.

ORGANIZATION

Student Representative Council of FMIPA UNESA | 2023-2025

Council Member – Commission D | 2024–2025

- Led 80 members in overseeing the implementation of a new student orientation program, coordinating planning, execution, and program evaluation.
- Contributed to the achievement of event targets through planning, coordination, and execution as part of the Event Division.
- Evaluated program implementation and provided recommendations for improvement.

Staff – Commission D | 2023–2024

- Supported the implementation and evaluation of Commission D work programs and organizational activities.

SKILLS

TECHNICAL SKILLS

- **INSTRUMENTATION**
UV-Vis Spectrophotometry | Atomic Absorption Spectrophotometry (AAS)
- **LABORATORY TECHNIQUES**
Sample Preparation | Analytical Testing | Calibration Curve Analysis | Chemical Analysis | Laboratory Data Processing | SOP Compliance
- **SOFTWARE**
Microsoft Excel | OriginLab | ChemDraw

PROFESSIONAL SKILLS

Attention to Detail | Problem Solving | Teamwork | Communication | Leadership | Adaptability