

LAILA NADYA AISHA

Depok, Indonesia

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SUMMARY

Bachelor of Biochemistry from IPB University with hands-on laboratory experience in biochemical and microbiological analysis. Experienced in analytical testing, sample preparation, chromatography, UV-Vis spectrophotometry, and data analysis, with research experience in developing and evaluating analytical methods for natural product analysis. Familiar with laboratory documentation, SOPs, and laboratory safety standards. Eager to contribute to analytical development, method evaluation, and research activities in the pharmaceutical, biotechnology, or health industries.

RESEARCH & PUBLICATIONS

Journal Article – Under Review : Zulfa, F. Z., Aisha, L. N., Artika, I. M., & Suminto, S. (2026). *Effect of Fermentation on Total Phenolic, Flavonoids Content, and Antioxidant Activity of Gandarusa (Justicia gendarussa)*. Indonesian Journal of Pharmacy.

Undergraduate Thesis Research

IPB University | Sep 2024 – May 2025

- Conducted experimental research on fermented *Justicia gendarussa* extract, producing 5 purified fractions for antioxidant evaluation.
- Performed analytical testing using TLC and UV-Vis to evaluate phenolic content and antioxidant capacity.
- Analyzed experimental data to evaluate relationships between phenolic content and antioxidant activity.

EXPERIENCE

Laboratory Assistant - IPB University

Pharmaceutical Product Analysis | Aug 2026 – Present

- Assisted practical sessions in pharmaceutical product analysis for 120+ Vocational Chemistry Analysis students.
- Guided students in analytical procedures, laboratory techniques, and proper use of laboratory equipment.
- Assisted with preparation of reagents, laboratory materials, and practical activities.
- Supported students in experimental data interpretation and preparation of practical reports.

Microbiologist Intern - BRIN

Laboratory of Microbiological Recovery | Jun – Aug 2023

- Performed microbiological screening on bacterial isolates using the spot test method, supporting identification of active bacteriophages.
- Isolated and identified 61 *Escherichia coli* strains (48% success rate) from 128 bacterial isolates under controlled laboratory conditions.
- Executed plaque assay and calculated bacteriophage titers to evaluate phage potency.
- Evaluated pH impact on phage activity, identifying 9 effective coliphages.

Staff of Disciplinary Committee Division

GFAM 2023 | Jul – Sep 2023

- Oversaw regulatory compliance and participant coordination for large-scale events (200+ attendees), preventing operational delays and ensuring a structured workflow.

Staff of The Supervisory Board

Badan Pengawas CREBs IPB University | Dec 2022 – Dec 2023

- Conducted systematic monitoring and evaluation of organizational programs, documenting activities across divisions and ensuring compliance with planned objectives.

EDUCATION

IPB University - Bogor, Indonesia

Bachelor of Biochemistry (S.Si) | GPA: 3.20/4.00 | Aug 2021 – Aug 2025

Relevant Coursework: Molecular Biology & Genetics, Industrial Biochemistry, Biochemical Analysis, Microbiology.

SKILLS

Analytical Techniques : Sample Preparation, Extraction, Chromatography (Column & TLC), UV-Vis Spectrophotometry, Antioxidant Assay

Microbiology : Isolation, Spot Test, Plaque Assay, Aseptic Technique

Laboratory Support : Good Laboratory Practice, SOP Compliance, Laboratory Documentation, Data Analysis

Professional Skills : Analytical Thinking, Attention to Detail, Team Collaboration