

FIRYAL NABILA

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SUMMARY

Biochemistry graduate with hands-on experience in laboratory testing, sample preparation, analytical data processing gained through academic research, laboratory assistance, and clinical laboratory internship. Experienced in following SOPs while ensuring sample traceability, analytical data accuracy, and documentation integrity through systematic laboratory practices. Familiar with GLP principles and basic GMP concepts. Seeking an entry level QA/QC or Laboratory Analyst role.

WORK EXPERIENCE

IPB University – Bogor, Indonesia

Laboratory Assistant of Biochemical Analysis (Jan 2025 – Jun 2025)

- Prepared reagents, stock solutions, and samples according to SOPs while following contamination control practices.
- Coordinated 14 laboratory practical sessions for 44 students by guiding groups of 12 students and providing troubleshooting support during biochemical analyses using UV-Vis spectrophotometry.
- Performed routine pre-use equipment checks, including instrument warm-up, blank measurements, and basic functionality checks before analysis.
- Verified analytical data by reviewing raw data, calculations, and testing results to identify inconsistencies before reporting.
- Maintained laboratory documentation, sample traceability, and proper laboratory waste handling in accordance with SOPs.

RSUD Dr. Slamet – Garut, Indonesia

Clinical Laboratory Intern (Jun 2023 – Jul 2023)

- Performed routine clinical laboratory testing across hematology, urinalysis, microbiology, serology, molecular diagnostics, and electrolyte testing following established laboratory procedures.
- Processed up to 30 patient samples per day by verifying sample identity, labeling, and suitability before testing.
- Operated hematology and electrolyte analyzers, performed urinalysis procedures including centrifugation and dipstick testing, conducted rapid serological testing (HIV and HBsAg), and assisted AFB smear and TCM testing under supervisor guidance.
- Verified laboratory results by reviewing patient identification, raw data, and recorded test results before reporting to the supervisor.
- Documented daily laboratory activities, maintained logbooks, and promptly escalated sample quality issues or instrument errors to the supervisor for further evaluation.

EDUCATION

IPB University (2021 – 2025)

B.Sc. in Biochemistry – GPA: 3.56/4.00

Final Thesis:

Effect of Kasgot Fertilizer on the Growth, Chemical Composition, and Antioxidant Capacity of Hydroponic Green Spinach (*Amaranthus viridis* L.).

- Conducted experimental research involving hydroponic cultivation, sample preparation, extraction, UV-Vis spectrophotometric analysis, and statistical analysis using Microsoft Excel, SPSS, and GraphPad Prism to evaluate total phenolic content, total flavonoid content, and antioxidant capacity.

ACHIEVEMENTS

Program Kreativitas Mahasiswa (PKM-K) – Kemendikbud RI (2023)

- Contributed to the development of a government-funded avocado-based butter product through formulation, production trials, quality evaluation, and data analysis.
- Performed organoleptic and stability testing, including texture, color, and shelf-life evaluation, while supporting proposal development, project presentation, and commercialization.

ORGANIZATION EXPERIENCE

Community of Research and Education in Biochemistry (CREBs)

Staff of Research and Profession (Mar 2023 – Dec 2023)

- Developed learning materials and coordinated tutoring programs for more than 300 Biochemistry students through tutor scheduling and program management.
- Coordinated professional development seminars by arranging speakers and preparing event schedules.

UBIQUINON

Head of the Health Safety and Environment Division (Jun 2023 – Nov 2023)

- Led a team of seven HSE members in developing participant illness response procedures, conducting safety briefings, and preparing first-aid kits for student competition activities.
- Monitored participant safety, coordinated incident response with the organizing committee, and maintained participant health records during event operations.

Get Closer to Biochemistry (GCTB)

Secretary and Treasurer of the Group Leader Division (May 2023 – Sept 2023)

- Recorded meeting minutes and managed participant administration to support the coordination of a 100-participant new student orientation program.
- Mentored eight new students by monitoring attendance, coordinating assignment submissions, and communicating program information throughout the program.

ADDITIONAL

Technical Skills

- Laboratory Skills: Sample preparation, analytical testing, reagent preparation, standard solution preparation, aseptic techniques, contamination control, SOP compliance, sample traceability, data verification, laboratory documentation, laboratory safety.
- Instruments: UV-Vis Spectrophotometer, Microplate Reader, NanoDrop Spectrophotometer, Hematology Analyzer, pH Meter, Centrifuge, Incubator, Water Bath.
- Software: Microsoft Excel (data processing and charts), SPSS (ANOVA, normality, correlation, and post hoc analysis), GraphPad Prism (graphing), Microsoft Word, Microsoft PowerPoint.

Languages

- Indonesian (Native), English (Limited Working Proficiency).

Certifications

- Mindo Mini Bootcamp: Food Microbiology Lab – Batch 4
Mindo Education | May 2026
 - Food microbiology analysis.
 - Good Laboratory Practices (GLP).
 - Food safety testing.
 - Sampling methods.
 - Microbiology quality control practices.