

RANA KAMILA

Cililitan, East Jakarta | ranakamila03@gmail.com | +62895412215300 | www.linkedin.com/in/ranakamila03

ABOUT ME

Cum Laude Chemistry graduate from Universitas Indonesia with a GPA of 3.79/4.00 and the second-highest GPA among the 2025 graduating cohort of the Faculty of Mathematics and Natural Sciences. Hands-on experience in analytical laboratory testing, sample preparation, instrumental analysis, data interpretation, and laboratory documentation through research, laboratory assistant, and internships at BBPMG LEMIGAS, BPOM, and BBPOM. Proficient in GC, FTIR, and UV-Vis spectrophotometry for qualitative and quantitative analysis and sample characterization. Familiar with GMP/CPPOB, HACCP, laboratory safety, SOP implementation, and quality documentation. Seeking to contribute to pharmaceutical Quality Control and analytical laboratory operations.

EDUCATION

Universitas Indonesia, Depok

Bachelor of Chemistry, Faculty of Mathematics and Natural Sciences

Aug 2021- Mar 2025

GPA: 3.79 of 4.00 (Cum Laude)

Undergraduate Thesis – Lipase Enzyme from Sunflower Sprouts as Catalyst for Biodiesel Production

- Conducted laboratory research on the isolation and purification of lipase enzyme from sunflower seed sprouts for application as a biocatalyst in biodiesel production.
- Evaluated enzyme isolation conditions based on seedling age and ammonium sulfate fractionation to determine optimal conditions and enzyme activity.
- Performed enzyme activity assays using *p*-nitrophenyl palmitate (*p*-NPP) and UV-Vis spectrophotometry, including sample preparation, absorbance measurement, and analytical data processing.
- Operated FTIR and interpreted infrared spectra to characterize esterification products by identifying characteristic functional-group absorption bands and comparing spectra with standards.
- Evaluated reaction products and biodiesel conversion to assess enzyme catalytic performance.
- Processed, interpreted, and documented experimental data to support product characterization and research conclusions.

Academic Achievement: Second-highest GPA among the 2025 graduating cohort of the Faculty of Mathematics and Natural Sciences, Universitas Indonesia.

EXPERIENCES

Balai Besar Pengujian Minyak dan Gas Bumi (BBPMG LEMIGAS), Jakarta

Jul - Aug 2023

Laboratory LPG and Natural Gas testing and sampling-Intern

- Performed qualitative and quantitative analysis using Gas Chromatography (GC) to determine hydrocarbon composition in LPG and natural gas-related samples.
- Conducted sample preparation and analysis in accordance with established laboratory procedures and testing standards.
- Operated GC for routine analytical testing while adhering to laboratory safety requirements and standardized testing procedures.
- Interpreted GC chromatograms and analytical data to determine hydrocarbon composition and support laboratory test results.
- Recorded, processed, and documented analytical results systematically to support accurate and reliable laboratory reporting.

Inorganic Chemistry Laboratory University of Indonesia, Depok

Feb - Jun 2024

Laboratory Assistant-Synthesis of Coordination Compounds

- Prepared laboratory equipment, materials, reagents, and experimental procedures for coordination compound synthesis and reaction kinetics experiments.
- Performed UV-Vis spectrophotometric analysis to measure absorbance and evaluate reaction rates under controlled experimental conditions.
- Conducted sample handling, experimental observations, data recording, and analytical result evaluation to support laboratory activities.
- Assisted students in following standardized experimental procedures and maintaining laboratory safety and good laboratory practices.
- Reviewed and interpreted experimental data to support accurate evaluation of reaction behavior and

analytical results.

Badan Pengawas Obat dan Makanan (BPOM), Jakarta

Jul - Aug 2024

Direktorat Pengawas Produksi Pangan Olahan-Intern

- Reviewed CPPOB/GMP certification applications by verifying submitted documentation for completeness and compliance with applicable regulatory requirements.
- Conducted technical and regulatory research on food additives, including Sodium Dehydroacetate and Propionate, and compiled findings to support quality evaluation and regulatory documentation.

Badan Pengawas Obat dan Makanan (BPOM), Jakarta

Sep–Des 2024

Food Safety Facilitator-MSIB Programme Intern

- Conducted hazard identification, risk analysis, and non-conformity evaluation based on GMP/CPPOB and HACCP principles to support corrective actions.
- Developed 26 SOPs and 23 forms to standardize operational processes, documentation, and compliance activities.
- Monitored implementation of procedures and supported processed food businesses in activities contributing to IP-CPPOB certification.

Balai Besar Pengawas Obat dan Makanan, Jakarta

Nov 2025–Mei 2026

Tim Pemeriksaan Intern-Kemnaker Programme

- Conducted processed food sampling activities, including sample collection, documentation, and coordination of monitoring and evaluation activities.
- Processed and maintained inspection data, reports, and records to support accurate monitoring, evaluation, and regulatory documentation.
- Supported technical guidance and mentoring activities related to food safety, quality requirements, and regulatory compliance.

ORGANIZATIONAL EXPERIENCE

University of Indonesia Chemistry Student Association

Head of the Entrepreneurship Bureau, HMD Kimia UI

Jan-Dec 2023

- Managed budgets, proposals, and operational activities while ensuring accurate documentation and efficient resource utilization.
- Successfully implemented 6 work programs with 95% achievement against established targets.

Asyraaf UI-PNJ

Head of Public Relations

Jun 2023 - Jun 2024

- Ensured the smooth and accurate data collection process for new students to support their integration into the campus environment, and organized a successful graduation appreciation event to honor graduates for their academic achievements

COURSES AND CERTIFICATIONS

- Food Safety Specialist — PT Agrimatama Sinergi Inovasi (AGAVI) Feb–Jun 2024
- Good Manufacturing Practice (GMP) — BNSP Certification Aug 2024
- Food Safety Extension Officer — BNSP Certification Nov 2025
- Cara Pembuatan Kosmetik yang Baik (CPKB) — DDSAZ Academy Jul 2026

ACHIEVEMENTS

- Top-performing student among 200 participants – Food Safety Management Specialist Independent Study Program, PT Agrimatama Sinergi Inovasi (AGAVI).
- Cum Laude Graduate and second-highest GPA among the 2025 graduating cohort, Faculty of Mathematics and Natural Sciences, Universitas Indonesia.

LANGUAGES AND SKILLS

- **Skills:**
Analytical: GC | FTIR | UV-Vis | Sample Preparation | Instrumental Analysis | Data Processing & Interpretation; Quality: GMP/CPPOB | HACCP | SOP & Quality Documentation | Non-Conformity Evaluation | Laboratory Safety; Software: Microsoft Excel | Word | PowerPoint; Soft Skills: Analytical Thinking | Attention to Detail | Accuracy | Problem Solving | Teamwork
 - **Language:** Indonesian – Native, English – Intermediate
-