

AI SYAH AYU MAHARANI

+62 81213437518 | Aisyahayu234@gmail.com | [LinkedIn](#)
Tangerang, Indonesia

SUMMARY

Bachelor of Pharmacy graduate from Institut Teknologi Bandung with hands-on laboratory experience in formulation development and physicochemical characterization of liquid, semisolid, and topical dosage forms. Skilled in formulation trial execution, stability evaluation, raw material/excipient selection, and scientific documentation gained through pharmaceutical research and teaching-laboratory assistantships. Detail-oriented and highly motivated to apply pharmaceutical science expertise to cosmetic and PKRT product development, with a strong interest in formulation innovation, product efficacy-cost balance, and cross-functional collaboration across R&D, Quality Control, and Production.

EDUCATION

Bandung Institute of Technology — Bandung, Indonesia

Aug 2020 – Jul 2024

Bachelor of Pharmacy | Pharmaceutical Science & Technology

- GPA: 3.60/4.00
- Awardee of Bank Indonesia Scholarship 2022 – 2024
- Final Project: Nanonization and Characterization of Tempuyung (*Sonchus arvensis*) Leaf Extract and In Vitro Inhibition of HMG-CoA Reductase Enzyme and Antioxidant Activity — including formulation trial optimization directly applicable to natural active ingredient formulation for cosmetic/PKRT development.

RESEARCH & FORMULATION EXPERIENCE

Research Assistant (RISPRO LPDP–Indofarma Collaborative Research Project)

Jun 2023 – May 2024

- Ran formulation trials and optimized planetary ball milling parameters (rotation speed, ball-to-powder ratio, and milling time), reducing particle size of *Sonchus arvensis* leaf extract by over 80% (2,829 nm to 471 nm).
- Enhanced formulation performance by improving solubility and increasing total phenolic and flavonoid content following nanonization optimization — directly transferable to actives selection and formulation efficacy evaluation.
- Performed physicochemical characterization using PSA, SEM, XRD, FTIR, TG-DTA, and UV-Vis to evaluate nanonization outcomes and guide formulation optimization.
- Prepared experimental protocols and technical documentation supporting the RISPRO LPDP–Indofarma collaborative research project, comparable to formulation and stability documentation workflows in industrial R&D.

Liquid & Semisolid Pharmaceutical Technology Laboratory Assistant — School of Pharmacy, Bandung Institute of Technology

Aug – Dec 2024

- Guided students in the preparation and evaluation of liquid and semisolid formulations — the same product categories central to cosmetic and PKRT formulation — while ensuring adherence to laboratory procedures.
- Evaluated formulation quality, homogeneity, appearance, and basic stability of liquid and semisolid dosage forms.
- Reviewed and verified laboratory reports to ensure data completeness, clarity, and traceability prior to submission.

Phytochemistry, Pharmaceutical Biology Laboratory Assistant — School of Pharmacy, Bandung Institute of Technology *Aug – Dec 2024*

- Guided and mentored undergraduate students in the isolation of chemical compounds from natural products (simplicia) — relevant to natural active ingredients used in cosmetic formulation.
- Instructed students on laboratory techniques, including extraction, fractionation, isolation, purification, identification, and characterization of natural compounds.

Pharmacokinetics Laboratory Assistant — School of Pharmacy, Bandung Institute of Technology *Jan–Jun 2024; Jun–Dec 2025*

- Facilitated pharmacokinetics laboratory sessions, ensuring protocol compliance and accurate experimental execution.
- Compiled, cross-checked, and validated experimental datasets to improve reporting accuracy.
- Reviewed laboratory reports and supporting literature to strengthen students' scientific reasoning and data interpretation.

Basic Pharmaceutics Laboratory Assistant — School of Pharmacy, Bandung Institute of Technology *Aug–Dec 2022; Aug–Dec 2023*

- Facilitated formulation of solutions, suspensions, emulsions, creams, and ointments while ensuring formulation accuracy and compliance with laboratory procedures.
- Reviewed formulation compositions using Handbook of Pharmaceutical Excipients (HOPE) and pharmacopoeial references to ensure appropriate excipient selection and formulation quality — directly relevant to formulating with approved cosmetic/PKRT raw materials.
- Evaluated laboratory reports for scientific accuracy, formulation rationale, and documentation quality, providing technical feedback to students.

ADDITIONAL EXPERIENCE

Intern, Pharmacovigilance — Deka Group — Jakarta, Indonesia

Feb 2026 – Present

- Processed 220+ Product Technical Complaint (PTC) registrations through Infotehna while ensuring accurate documentation and timely coordination across cross-functional stakeholders.
- Completed 23+ CDER safety assessments and drafted 7+ Risk Assessment documents in accordance with international regulatory references, including PMDA and NPRA guidelines.
- Developed an interactive Looker Studio dashboard integrating PTC, AE, PSUR, and RMP metrics to improve performance monitoring and support operational decision-making — data analysis skills transferable to formulation and stability data tracking.

ORGANIZATION EXPERIENCE

Head of Pharmacy Subject Subdivision — Pharmanova ITB 2023

May 2022 – Jan 2023

- Led preparation of structured learning materials and problem sets for a national-level pharmacy competition.
- Coordinated cross-functional teams to ensure alignment with academic standards and event timelines.

MBKM Socio-Entrepreneurship Volunteer — Bandung Institute of Technology

Aug – Dec 2022

- Planned and developed a social project in Tanjungsari village, encompassing health education and community entrepreneurship initiatives.
- Contributed to branding, promotion, and market testing activities to evaluate community-developed products and support commercialization initiatives.

SKILLS

Formulation & Technical: Cosmetic/PKRT-relevant formulation of solutions, suspensions, emulsions, creams & ointments; formulation trial execution; stability evaluation; raw material and excipient selection (HOPE, pharmacopoeial references); physicochemical characterization (PSA, SEM, XRD, FTIR, TG-DTA, UV-Vis); standard laboratory practices.

Analytical & Documentation: Experimental design, data analysis, scientific literature review, technical and regulatory documentation, process optimization.

Software: Microsoft Office (Word, Excel, PowerPoint, Outlook), Minitab, Tableau, Looker Studio (Data Studio), Canva, CapCut.

Languages: Indonesian (Native) | English (Professional working proficiency).