

DINE AYU WARDANI, S.Farm.

Indramayu, West Java, Indonesia | +62 857-0353-2757 | dineayuardani2@gmail.com | linkedin.com/in/dine-ayu-wardani

PROFESSIONAL SUMMARY

Detail-oriented Pharmacy Graduate (S.Farm.) with a strong specialization in Pharmaceutical Technology and Formulation Development. Demonstrated expertise in transdermal patch formulation, herbal extraction (maceration), phytochemical screening, and physical evaluation parameters (folding endurance, thickness, moisture absorption). Hands-on experience in laboratory operations, analytical chemistry, and cross-functional project execution complemented by leadership roles in university research (PKM-RE) and organizational administration. Thorough knowledge of CPOB/GMP, GLP, GDP, and BPOM regulations, driven to support scalable formulation development, scale-up, and technology transfer activities as R&D Formulation Assistant Manager.

CORE COMPETENCIES & TECHNICAL SKILLS

- **Formulation & Scale-Up:** Transdermal Patches (Matrix Systems), Gels, Creams, Pastes, Liquid & Semi-Solid Formulations, Polymer Matrix Optimization (HPMC, Plasticizers), Critical Quality Attributes (CQAs).
- **R&D & Laboratory Techniques:** Extraction (Maceration), Phytochemical Screening, UV-Vis Spectrophotometry, Antibacterial Assay (Kirby-Bauer), Moisture & Ash Content Analysis, Stability Testing & Folding Endurance.
- **Regulatory & Quality Compliance:** CPOB / GMP Compliance, Good Laboratory Practice (GLP), Good Documentation Practice (GDP), BPOM Regulatory Standards, Master Formula & Trial Protocol Preparation.
- **Tools & Core Competencies:** MS Office (Data Analysis), Technical Scientific Writing, Cross-Functional Coordination, Project Management, Technical English (Scientific Literature Review).

FORMULATION R&D & LABORATORY EXPERIENCE

Analytical Chemistry Laboratory Assistant & Analyst (Laboran) | Gunadarma University Sep 2025 – Dec 2025

- Managed daily laboratory operations, prepared chemical reagents, stock solutions, and calibrated analytical instrumentation in full adherence to Good Laboratory Practice (GLP) and GDP standards.
- Supervised and assisted undergraduate students in analytical chemistry procedures, technical executions, and theoretical principles, ensuring laboratory safety and quality compliance.
- Executed proper hazardous waste disposal, inventory management, and technical documentation to support seamless cross-functional lab workflows.

Lead R&D Student Researcher – Transdermal Patch Formulation | Gunadarma University 2024 – 2025

- Formulated and evaluated a novel herbal transdermal matrix patch incorporating Red Betel Leaf (*Piper crocatum*) extract, optimizing polymer (HPMC) and plasticizer (Propylene Glycol) ratios.
- Executed complete material characterization & extraction using 96% ethanol (8.78% yield), validating water content (1.07%) and ash content (2.16%) against strict pharmaceutical criteria.
- Evaluated physical CQAs (thickness <1 mm, moisture absorption <10%, folding endurance >300 folds) and resolved matrix brittleness to balance mechanical strength with antibacterial effectiveness against *S. aureus*.
- Authored comprehensive master formulas, trial protocols, stability evaluation reports, and final research documentation.

Co-Researcher – Student Creativity Program in Exact Research (PKM-RE) | Kemendikbudristek Grant 2024

- Collaborated in a 5-member cross-functional team (Pharmacy & Agrotechnology) on secondary metabolite production in Marigold (*Tagetes erecta*) for coronary heart disease chemoprevention.
- Executed plant cultivation, harvest timing evaluation, extraction, and quantitative analysis using UV-Vis Spectrophotometry; compiled periodic technical progress reports for grant review.

EDUCATION & QUALIFICATION

Bachelor of Pharmacy (S.Farm.) – Major in Pharmaceutical Technology | Gunadarma University 2021 – 2025

- Relevant Coursework: Industrial Pharmacy, Drug Stability, Controlled Release Systems, Physical Pharmacy, Bio-pharmaceutics & Pharmacokinetics, Sterile/Semi-Solid/Solid Formulations, Natural Product Technology, Cosmetology.

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

Human Resource Development (PSDM) Staff | Pharmacy Student Association (HIMAFARSI) 2022 – 2024

- Led end-to-end event planning, budget planning, vendor negotiation, and execution for departmental programs involving 50+ participants.
- Coordinated cross-functional teams, prepared event rundowns, served as Master of Ceremonies (MC), and spearheaded post-event evaluations to drive continuous improvement.

Volunteer & Event Coordinator | Youth Ranger Indonesia & Drug Campaign Indonesia 2022 – 2023

- Served as Guest Star Liaison Officer (LO) and delivered public healthcare education on appropriate antibiotic use during World Antimicrobial Awareness Week.