

FAHMI AL HADI WULUR

Solo, Sukoharjo, 57556 | 089516371991 | fahmialhadiwulur@gmail.com
<https://www.linkedin.com/in/fahmialhadiwulur/>

PHARMACIST

QUALIFICATION PROFILE

licensed pharmacist (apothecary) with over 5 years experience in the pharmaceutical and cosmetic industries. strong expertise in research and development, specializing in product formulation and process development

PROFESSIONAL EXPERIENCES

HEAD RESEARCH AND DEVELOPMENT DEPARTMENT

January 2024- Present

PT Dua Naga Corporation (cosmetic industry)- Baki, Sukoharjo.

- Directed 5 core R&D divisions—comprising formulation, analytical chemistry, manufacturing technical unit, regulatory compliance, and sample preparation—with each division operating under its own dedicated supervisors and support staff.
- Calculated product cost of goods sold (COGS) and executed strategic reformulations, achieving cost efficiency based on raw material compatibility assessments and robustness testing while preserving safety and efficacy.
- Spearheaded end-to-end R&D pipeline for new cosmetic products, translating market trends into commercially viable, high-stability formulations.
- Standardized regulatory dossiers, auditing and approving the 4-part product information file(DIP) to guarantee 100% compliance with BPOM and international cosmetic standards.
- Upskilled the formulation team through seminars and live demonstrations conducted directly by raw material principals.
- Evaluated scale-up reports and observation logs, approved finished product acceptance criteria, and conducted direct comparisons with retained samples (retain samples) to ensure manufactured quality precisely matches customer expectations.
- Assessed final sample suitability and stability prior to client submission, ensuring zero compromise on product quality.
- Partnered with global R&D teams to cross-exchange formulation expertise and validate pre-clinical claims (in vitro and in vivo) prior to external third-party laboratory testing.
- Engineered a proprietary 10-minute rapid stress testing protocol to accurately predict 4-month shelf-life stability, accelerating product screening and mitigating potential stability issues.
- Analyzed the pharmacological mechanisms of active cosmetic ingredients to ensure target clinical efficacy and alignment with functional claim profiles.
- Established standardization of literature and testing protocols for cosmetic raw material receiving, preventing the acceptance of non-conforming raw material quality.
- Led CAPA investigations for production deviations alongside the MTU, mitigating root-cause manufacturing bottlenecks and optimizing batch reproducibility.
- Architected an integrated digital tracking system for analytical data and R&D backups, minimizing operational errors and improving overall workflow efficiency.
- Conducted raw material impurity screenings to detect BPOM- prohibited contaminants, ensuring long term product safety and compliance.

- Standardized raw materials and excipients that are functionally proven to be effective, thereby reducing the volume of materials used, optimizing inventory space, and minimizing the total number of components in the formula.

HEAD RESEARCH AND DEVELOPMENT DEPARTMENT

November 2022- Desember 2023

PT Sunindo Bangun Kersana (cosmetic industry)- Cikupa, Tangerang.

- Formulated high- performance bar soap engineered to resist cracking under extreme environmental conditions while significantly enhancing foam and bubble density through optimal excipient selection.
- Designed and implemented an end-to-end R&D workflow system, spanning from marketing sample requests to final finished products.
- Optimized secondary packaging dimensions to maximize shipping container space utilization, achieving near-maximum weight capacities and substantially cutting logistics costs.
- Engineered an accelerated thermal-cycling test protocol for bar soaps, enabling early detection of structural instability and reducing formulation screening timelines.
- Developed a lean Total Fatty Matter (TFM) assay for raw soap noodles, minimizing solvent usage and equipment reliance while maintaining analytical precision and cost efficiency.

FORMULATION STAFF

April 2020 - October 2022

PT Yarindo Farmatama – Cikande, Banten

- Formulated extended-release caplets achieving target dissolution profiles in compendial media within fewer than 15 trial iterations, fully meeting all USP/BPOM acceptance criteria.
- Engineered particle size reduction protocols for cardiovascular nasal spray suspensions to optimize active ingredient dispersion and target bioavailability.
- Reformulated products containing highly hygroscopic APIs, designing pragmatic processing solutions to overcome moisture sensitivity using existing facility equipment.
- Drove cost-saving initiatives by qualifying alternative raw material suppliers through rigorous laboratory evaluation and pilot scale-up trials without compromising product quality.
- Structured pre-formulation studies to streamline formulation screening, capping trial iterations to under 15 batches and significantly shortening R&D development timelines.
- Managed full-lifecycle R&D pipelines from lab trials to commercial launch, compiling batch manufacturing records (BMR) and supervising initial 3-batch validation runs to guarantee GMP compliance.
- Managed R&D raw material inventory, enforcing strict storage and handling compliance for sensitive active ingredients and excipients.
- Designing formulations for various dosage forms—including conventional tablets, coated tablets, extended-release tablets, buccal tablets, capsules, liquid suspensions, injections, and lozenges—as well as categorizing them by sterility (sterile and non-sterile) across pharmaceutical, herbal, and supplement portfolios.

SKILL

- Operating tablet coating machine, tablet press machine, super mixer granulator machine, oscillating granulator machine, tap density testing machine.
 - Ms. Office
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TRAINING

- CPOB.
 - CPKB.
 - Sistem jaminan halal
 - Coating technique by Colorcon.
 - Role excipients in breaking down barrier to bioavailability and overcoming insolubility issue - in practical approach by IPEC India.
 - Mucoadhesion and modern drug delivery systems by IMCD pharmaceuticals.
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INTERNSHIP

Pirngadi Hospital
HM Yamin, Medan

Lembaga Farmasi Angkatan Darat
Gudang Utara, Bandung.

Enseval Putera Megatrading
Timbang Deli, Medan.

Apotek Kimia Farma 39
Gatot Subroto, Medan.

EDUCATION

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| • Bachelor of Pharmacy
Universitas Sumatera Utara (USU), Medan. GPA: 3.04 out of 4.00. | <i>Jul 2014 - Oct 2018</i> |
| • Pharmacist Professional Degree
Universitas Sumatera Utara (USU), Medan. GPA: 3.83 out of 4.00. | <i>Feb 2019 - Feb 2020</i> |