

KHAIRUNNISA AZZAHRA

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Pharmacist with hands-on experiences in formulation development and optimization research using Design of Experiment (DoE), conducted GMP/CPOB gap analysis, and halal product registration document. These experiences have strengthened my analytical skills, attention to detail, and adaptability, with a continuous learning mindset to apply scientific knowledge in supporting product development, process improvement, and pharmaceutical manufacturing activities.

EDUCATION

Pharmacist | Universitas Padjadjaran

Feb 2025 – April 2026

GPA: 3,71/4.00

Pharmacist Registration Certificate (STRA): Active.

Relevant Coursework: GMP (CPOB, CPKB, CPOTB), GDP (CDOB, CDAKB) pharmaceutical quality systems, regulatory compliance, documentation practices, and patient-centered pharmaceutical care.

Bachelor Pharmacy | Universitas Islam Negeri Syarif Hidayatullah

Aug 2019 – Jan 2024

Jakarta

GPA: 3,44/4.00

Thesis title: Preparasi Formula Liposom Kombinasi DOTAP, Kolesterol, dan DSPE-PEG 2000 Sebagai Agen Transfeksi pGFP Terhadap Sel Mamalia HEK293T Menggunakan *Response Surface Methodology*.

EXPERIENCES

PT. Combiphar | Pharmacist internship - Operational Excellence Division

Sep – Oct 2025

(Risk and Halal Management)

- Conducted CPOB gap analysis for risk identification across non-sterile manufacturing facilities (R&D, QC, QA, Registration, Production, Warehouse, and Waste Management) to evaluate operational alignment and support the Quality Risk Management (QRM) framework.
- Registered halal material verification matrix for 10+ products in compliance with BPJPH standards.

Nano Center Indonesia | Research assistant intern at CoE Life Sciences

Oct 2023 – June 2024

- Designed and evaluated an alternative liposome delivery system for cloprostenol sodium hormone in cattle using Minitab, successfully achieving physicochemical targets during initial formulation testing.
- Performed formula characterization of particle size, polydispersity index, and zeta potential using a Zetasizer particle size instrument.
- Conducted cytotoxicity *in-vitro* assays of propolis nano formulation on RAW 264.7 macrophage cells.
- Managed weekly data result for progress reports to support continuous project evaluation and scientific documentation.

National Research and Innovation Agency (BRIN) | Research student

Nov 2022 – Aug 2023

- Optimized liposome formulation for pDNA delivery using Response Surface Methodology (RSM) on Minitab, successfully developed predictive models to evaluate lipid composition for further formulation optimization.
- Isolated and verified *Escherichia coli* plasmid DNA through bacterial transformation, cultivation, and confirmation using restriction enzyme digestion electrophoresis.
- Performed *in-vitro* assays on HEK293T cells to evaluate gene expression efficiency and cytotoxicity, assessing non-viral gene vector performance and cellular safety profiles.
- Analyzed experimental data to support scientific manuscript preparation.

Basic Pharmaceuticals Laboratory Assistant | UIN Syarif Hidayatullah Jakarta

Aug 2021- Jan 2022

- Demonstrated compounding technical basic dosage forms (pulveres, syrups, suspensions, and emulsions).
- Prepared tools and materials for pharmaceutical formulation practical sessions for 50 students and collaborated with lecturers to facilitate laboratory activities

PUBLICATION

Box-Behnken design assisted approach in optimizing lipid composition for cationic liposome formulation as gene carrier. Biochimica et Biophysica Acta (BBA). Scopus Q1 level.
<https://doi.org/10.1016/j.bbagen.2024.130705>

SKILLS

- **Software skills:** Microsoft Office (Word, Excel, PowerPoint), Google Workspace (Docs, Sheets, Slides), Minitab, GraphPad Prism, ImageJ.
- **Laboratory skills:** Aseptic laboratory techniques, Mammalian cell culture handling, Cell based assays, Microplate spectrophotometric, Particle size analyzer, UV-Vis spectrophotometry.
- **Language:** English (ELT Unpad 530/677).

TRAINING & COURSES

- Integrasi Sistem Mutu dan Kepatuhan dalam Distribusi Farmasi: CDOB, CDAKB, ISO 9001 & Sistem Jaminan Halal | Jadi Praktisi (September 2026)
- Memahami Proses Implementasi Change Control (CC) & Corrective Action Preventive Action (CAPA) | Jadi Praktisi (September 2026)
- Drug Registration in Practice: Strategy, Dossier Preparation & BPOM Submission | Jadi Praktisi (August 2026)
- Regulatory Affairs Obat Bahan Alam: Strategi Pemenuhan Standar Badan POM | Jadi Praktisi (August 2026)
- Lean Six Sigma White Belt | Prodemmy (August 2026)
- Pelatihan Sistem Manajemen Mutu (ISO 9001:2015) | Makin Ahli (August 2026)
- Quality by Design (QbD) in Pharmaceutical Industry | Jadi Praktisi (August 2026)
- Pemahaman Sistem Jaminan Produk Halal (SJPH) yang Efektif | Jadi Praktisi (August 2026)
- Mengenal Produksi Sediaan Solid di Industri Farmasi | Jadi Praktisi (August 2026)
- Manajemen Risiko Berbasis SNI ISO 31000 | Badan Standardisasi Nasional (July 2026)
- Production Compliance | Latih (May 2026)