

KHAIRUNNISA AZZAHRA

Cianjur, Jawa Barat (Available to relocate) | (+62) 81555773582

surel.zahra@gmail.com | [linkedin.com/in/khairunnisa-azzahra-0b9352217/](https://www.linkedin.com/in/khairunnisa-azzahra-0b9352217/)

Pharmacist with a strong foundation in pharmaceutical formulation research, manufacturing, quality, and regulatory systems. Experienced in formulation development and optimization using Design of Experiment (DoE), with hands-on industry experience conducting CPOB gap analysis for risk identification across non-sterile manufacturing facilities. Also experienced in preparing regulatory documentation and supporting compliance through halal registration. Strong analytical and problem-solving skills, detail-oriented, adaptable, and eager to contribute across R&D, Technical Service, Quality Assurance, Regulatory Affairs, and Production positions.

EDUCATION

Pharmacist | Universitas Padjadjaran

February 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

August 2019 –
January 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*.

PROFESSIONAL EXPERIENCES

PT. Combiphar

September – October
2025

Pharmacist internship - Operational Excellence Division (Risk and Halal Management)

- Conducted CPOB gap analysis for risk identification across non-sterile manufacturing facilities (R&D, QC, QA, Regulatory Affairs, Production, Warehouse, and Waste Management) to evaluate operational alignment and support the Quality Risk Management (QRM) framework.
- Executed the preparation and submission of official halal registration packages for 10 products in compliance with BPJPH standards.
- Developed a comprehensive halal material verification matrix (verifying halal certificates, CoAs, product specifications, and supplier declarations) to ensure SJPH Compliance.

Nano Center Indonesia | Research intern at CoE Life Sciences

October 2023 – June
2024

- Designed and evaluated an alternative liposome delivery system for exogenous hormone delivery 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 *in-vitro* assays of propolis nanoformulation 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

November 2022 –
August 2023

- Optimized liposome formulation for pDNA delivery using Response Surface Methodology (RSM) on Minitab, successfully developed predictive models to evaluate lipid composition variables 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

August 2021 – January 2022

- Demonstrated compounding technical in 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 (Docs, Sheets, Slides), Minitab, GraphPad Prism, ImageJ.
- **Laboratory skills:** Aseptic laboratory techniques, Mammalian cell culture handling, Cell based assays, Microplate spectrophotometric, Particle size analyzer.
- **Language:** English (TOEFL ELT Unpad 530/677).

TRAINING & COURSES

Drug Registration on Practice: Strategy, Dossier Preparation & BPOM Submission August 2026

Learned foundational knowledge of pharmaceutical regulatory frameworks, drug registration strategies, BPOM registration processes, CTD-based dossier preparation, and BPOM electronic registration system.

Lean Six Sigma | Prodemmy August 2026

Learned Lean Six Sigma fundamentals, DMAIC methodology, process mapping, identification of the 8 Deadly Wastes, and Lean Six Sigma application for process optimization and continuous improvement.

Pelatihan Sistem Manajemen Mutu (9001:2015) | Makin Ahli August 2026

Learned core QMS principles, focusing on risk-based thinking, continuous improvement (PDCA framework), process standardization, and quality document control.

Pemahaman Sistem Jaminan Produk Halal (SJPH) yang Efektif | Jadi Praktisi August 2026

Learned SJPH principles and certification frameworks, halal product requirements, halal certification process, and the SJPH implementation including material control, production processes, documentation, and halal compliance monitoring.

Manajemen Risiko Berbasis SNI ISO 31000 | Badan Standardisasi Nasional July 2026

Credential ID: ELSDS/BSN/16342/XXVI

Learned the fundamental concepts of risk management, principles, framework, processes, and risk assessment techniques, to enhance understanding of risk management implementation in improving organizational performance and supporting the achievement of organizational objectives.

Production Compliance | Latih May 2026

Learned implementation, audit management, deviation and change management, complaint investigation, recall, rework, Good Documentation Practice, risk assessment in production area. Introduced to continuous improvement through Lean Manufacturing and Total Quality Management (TQM) principles.

ORGANIZATION EXPERIENCE

Himpunan Mahasiswa Program Studi Farmasi UIN Jakarta | Member of Internal Organizational Development January 2021 – January 2022

- Coordinated team-building activities and monitored monthly organizational progress to support team performance and collaboration, including quarterly and annual performance evaluations to identify the Best Organizational Member.
- Led the planning and execution of a Meet & Greet event involving lecturers, alumni, and pharmacy students.
- Supported event planning and execution for ISMAFARSI Leadership Training (LK 2) 2021 and 11TH Pharmacy Expo 2021 UIN Syarif Hidayatullah Jakarta.