

## FATIMAH ZAHRA MUTHI'AH

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### EDUCATION

#### School of Pharmacy, Bandung Institute of Technology

##### PHARMACIST PROFESSIONAL STUDY PROGRAM

August 2025 – August 2026

Production and Quality Control • GPA: 3.90 • Professional Rotations: Pharmaceutical Industry, Hospital, Community Pharmacy, Distribution, and Regulatory (BPOM)

##### PHARMACEUTICAL SCIENCE AND TECHNOLOGY

July 2021 – July 2025

Bachelor's Degree • GPA: 3.92 • Thesis: Formulation and Characterization of Garlic (*Allium Sativum* L.) Extract Liposomes and In Vitro Angiotensin-Converting Enzyme Inhibitory Activity Assay

- Formulated the liposome by optimizing phosphatidylcholine-to-cholesterol ratios, total lipid concentrations, and lipid-to-extract ratios based on particle size, polydispersity index, and encapsulation efficiency parameters.
- Conducted physicochemical characterizations on the optimized formula, evaluating organoleptic properties, particle morphology, zeta potential, pH, and performed stability testing to ensure product quality and physical stability.
- Evaluated the in vitro antihypertensive efficacy by performing an Angiotensin-Converting Enzyme (ACE) inhibitory activity assay, successfully comparing the IC50 values of the liposomal extract against the pure unformulated extract and Captopril as the gold standard.

### WORKING EXPERIENCES

#### Quality Compliance Intern, PT Anugrah Amarta Global (Dexa Group)

March 2026 – April 2026

- Participated in the Technology Transfer Trial for an oral herbal liquid product, specifically monitoring the filling and capping processes and conducting deliverable volume tests for *in-process control* (IPC).
- Developed a comprehensive HACCP analysis for liquid drink pre-production by evaluating Development Trial Reports (DTR), ensuring quality and safety standards from the trial phase.
- Updated the Quality Risk Management (QRM) SOP, revised the Site Master File (SMF), and participated in shopfloor GMP inspections across production, packaging, engineering, and warehouse facilities.

#### Quality Assurance Intern, PT Pharos Indonesia

July 2024 – August 2024

- Contributed to Quality System activities: managed to review  $\pm 10$  batch records per day as part of Batch Disposition process, assessed the CPPs and CQAs of 20 batch per day for Product Quality Review data, and organized batch records in the document center as part of document control. Also, attending GMP basic training and internal audit.
- Taken part in process validation activities on the production floor, finalizing more than 7 validation reports.

#### Laboratory Assistant: Basic Chemistry (Aug – Dec 2022), Pharmaceutical Botany (Aug – Dec 2023), Physical Pharmacy (Feb – Jun 2024), Integrated Pharmacognosy (Aug – Dec 2024), Pharmacokinetics (Feb – Jun 2025)

- Directing the practicum flow for a group (4 – 6 students) each session, discussing the topics, demonstrating laboratory equipment, evaluating students' laboratory work and theoretical knowledge, and providing grades

### ORGANIZATIONAL EXPERIENCE

#### Head of R&D, ABLE: Industry Simulation Project (*Entrepreneurship Course*)

March 2025 – May 2025

- Conceptualized a teenage skincare line (Face Wash, Moisturizer, and Sunscreen) by determining the dosage forms and ingredient concentrations, and designing the theoretical laboratory-scale manufacturing processes.

#### Himpunan Mahasiswa Farmasi 'Ars Praeparandi' ITB

September 2022 – March 2024

- Staff of Pharmaceutical Studies and Profession Division
- Secretary of Wisuda April 2023
- Relation Staff BSO Pharmanova 2023 & 2024
- Vice Coordinator of LO Wisuda Oktober 2022

#### Deputy Head of Content Division, Keluarga Mahasiswa Islam (GAMAIS) ITB

April 2023 – December 2023

### ACHIEVEMENT

- Chong Kun Dang Kochon Foundation Scholarship Awardee
  - Drug Packaging Design Competition, 1<sup>st</sup> Winner (with team)
- October 2022 – August 2026  
November 2024

### SKILLS

- Pharmaceutical Research
- Laboratory Work and Analysis
- Detail-oriented and Aesthetic-driven
- Strategic Thinking and Problem Solving