

Dewi Nur Aini

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Chemistry graduate with hands-on experience as a Chemical Analyst. Proficient in conducting **chemical, physical, and microbiological analyses**, including test reporting and instrument operation (**UV-Vis, FTIR, GC-MS, AAS**, etc.). Interested in pursuing a career in QC, QA, and R&D, having completed training in **CPOB, CAPA** (Corrective and Preventive Action) and Root Cause Analysis (**RCA**) for the pharmaceutical industry. A detail-oriented professional with sharp analytical skills and a fast learner who excels in both collaborative and independent laboratory environments.

EDUCATION

UIN Maulana Malik Ibrahim, Malang
Faculty of Science and Technology- Chemistry Department
GPA 3.75 / 4.00 (Cumlaude)

2020 – 2024

EXPERINCES

PT Graha Mutu Persada, Semarang

Sep 2025 – Mar 2026

Chemical Analyst

- Conducted comprehensive physical and chemical testing on diverse matrices, including water, air, and sediment.
- Proficient in analyzing parameters such as COD, BOD, DO, Fluoride, Phosphate, Color, Permanganate Index, Ammonia, Chloride, Turbidity, TDS, TSS, Cr6+, Ambient SO₂, Ambient NH₃, Heavy Metals, and pH.
- Operated and maintained analytical instruments, specifically UV-Vis Spectrophotometer and GC-MS, ensuring optimal performance and calibration.
- Prepared and standardized chemical reagents and solutions required for daily analytical procedures.
- Ensured all testing activities comply with laboratory Sops and occupational health and safety regulations.
- Verified technical test reports to ensure 100% data validity, consistency, and traceability for regulatory reporting.
- Ensured laboratory cleanliness, organization in adhere to safety standard.

UIN Maulana Malik Ibrahim, Malang

Researcher

Nov 2023 – Jul 2024

- Formulated herbal-based lotions and *Moringa* soaps using hot and cold process saponification; conducted stability, SPF, and pH testing to ensure product quality.
- Analyzed the inhibition zone of green tea extract creams through antibacterial testing to evaluate efficacy against acne-causing bacteria.
- Evaluated the impact of altitude on the bioactive compounds of *Muntingia calabura*; performed ultrasonic extraction and DPPH assays to determine antioxidant activity.
- Utilized Elisa Reader, Spectroscopy UV-Vis, and ATR-FTIR to identify and analyze the profile of active compounds in plant extracts.

Laboratory Assistant-Separation Chemistry

Mar – Jul 2024

- Coordinated and mentored 44+ practicum students, boosting execution efficiency to over 90%.
- Assisted in the operation of UV-Vis, FTIR, GC-MS, Column Chromatography, and TLC instruments.
- Responsible for reagent preparation and maintaining the cleanliness of equipment and the laboratory environment.

Laboratory Assistant-Organic Chemistry

Mar – Jul 2024

- Mentored 60 practicum students, boosting execution efficiency beyond 90% in practical procedures.
- Operated and maintained key analytical instruments (UV-Vis, FTIR, GC-MS).
- Managed reagent preparation and ensured rigorous cleanliness of laboratory equipment and spaces.

Materia Medica Laboratory, Batu

Jun – Aug 2023

Quality (QC/QA)- Internship

- Ensured 100% compliance with raw material and finished extract quality standards, adhering strictly to laboratory SOPs (GLP) and CPOTB principles.
- Expertly performed comprehensive microbiological testing (e.g., total plate count, yeast/mold, *E. coli*).
- Performed QC testing for 90+ monthly herbal products, specializing in physical and chemical analysis such as organoleptic, phytochemical, moisture, water content, ash, density, viscosity, total phenolic & flavonoid).
- Reported 100% of identified test results, enabling the immediate implementation of corrective actions
- Skilled in the operation and maintenance of analytical (UV-Vis, FT-IR, Viscometer, Furnace, pH meters) and microbiological (Autoclave, Incubator) instrumentation.
- Managed stock opname and successfully implemented a 100% FIFO system for raw material management.
- Maintained cleanliness of equipment and laboratory work areas daily to ensure aseptic conditions.

Halal Product Process Assistant

- Responsible for assisting Micro, Small, and Medium Enterprises with the halal certification application process.
- Conducted accurate verification and validation of MSME halal declaration data.
- Managed the submission of MSME halal declarations to BPJPH, Ministry of Religious Affairs of Indonesia.

ACHIEVEMENTS

• Highest GPA Recipient, Chemistry Department Graduation, Class of 2020	Sep 2024
• Awardee, Bright Scholarship YBM BRILiaN	Nov 2022 – Jul 2024
• 3rd Place Winner, Helium Essay Competition	Dec 2023
• 2nd Place Winner, Helium Essay Competition	Nov 2022
• Awardee, Smart Scholarship YBM BRILiaN	May – Nov 2022
• Bronze Medalist, Indonesian Science Competition (Chemistry)	Feb 2021
• Bronze Medalist, Student Science Olympiad (Chemistry)	Dec 2020

ORGANIZATIONAL ACTIVITIES

Bright Scholarship RO Malang, Malang

Nov 2022 – Jul 2024

Coordinator, Information and Communication Division

- Increased information reach by 70% through leading social media content design and dissemination.
- Managed publication schedules and coordination to ensure efficient team workflow.
- Facilitated cross-functional collaboration to streamline content approval and optimize communication flow.

Apr – Oct 2023

Hai'ah Tahfidz Al-Qur'an, Malang

Coordinator, Editorial Division

- Assisted in supervising bulletin production, ensuring content quality and timely publication.
- Initiated and conducted design training for members, enhancing team capabilities.
- Reported performance results to the Head of the Editorial Division.

CERTIFICATIONS AND TRAININGS

• Good Manufacturing Practices for Pharmaceutical (CPOTB) and Cosmetics Products (CPKB)	[certificate]	Apr 2026
• CAPA and Root Cause Analysis in Pharmaceutical Industry	[certificate]	Feb 2026
• Types of Water for Laboratory Analysis	[certificate]	Jul 2025
• PCR Analysis Technique for Halal Testing	[certificate]	May 2025
• Raman Spectroscopy: Principle, Instrumentation, and Applications	[certificate]	Apr 2025
• Fundamental of Scanning Electron Microscopy (SEM) Training	[certificate]	Mar 2025
• Chemical Storage Techniques in the Laboratory	[certificate]	Mar 2025
• Basic Fundamental HPLC (High-Performance Liquid Chromatography)	[certificate]	Feb 2025
• Quality Control	[certificate]	Jan 2025
• Quality Assurance	[certificate]	Jan 2025
• Research and Development	[certificate]	Jan 2025
• Gas Chromatography (GC)	[certificate]	Dec 2024
• Volumetric Titration	[certificate]	Dec 2024
• Awareness ISO 22000:2018 (Food Safety System Certification)	[certificate]	Dec 2024
• Good Manufacturing Practice (GMP)	[certificate]	Dec 2024
• Awareness FSSC 22000 version 6.0	[certificate]	Dec 2024
• Awareness ISO 17025:2017	[certificate]	Dec 2024
• Awareness ISO 9001:2015	[certificate]	Dec 2024
• Basic Laboratory Skills	[certificate]	Sep 2023
• Halal Product Process Assistant	[certificate]	Mar 2023

LANGUAGES AND SKILLS

- Languages: Indonesian (Native), English (Intermediate)
- Technical Microbiology Skills: Biological parameter testing, aseptic technique, sterilization, microbiological culture media preparation, etc.
- Physical Tests: Organoleptic test, density, melting point/boiling point determination, particle size analysis, solubility test, Color, Turbidity, TDS, TSS, etc.
- Chemical Tests: pH determination, moisture content, ash content, peroxide value, total phenolic & flavonoid content (TPC & TFC), phytochemical screening, volumetric titration, COD, BOD, DO, Fluoride, Phosphate, Chloride, Ammonia, Permanganate Index, Cr⁶⁺, SO₂ and NH₃ Ambient, etc.
- Software: Ms. Office, Metaboanalyst, Chemdraw, Chems sketch, Orange, Origin, etc.
- Instrumentation: Thin Layer Chromatography, UV-Vis Spectroscopy, ELISA Reader, FTIR, Gas Chromatography-Mass Spectrometry (GC-MS), Atomic Absorption Spectrophotometer, Raman Spectroscopy.
- Soft Skills: Analytical, critical thinking, meticulous, teamwork, laboratory management, fast learner, adaptability.