



NUR FADHILAH SAMAI

BACHELOR OF CHEMISTRY | LABORATORY ANALYST | QUALITY CONTROL | RESEARCH & DEVELOPMENT

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PROFESSIONAL SUMMARY

Bachelor of Chemistry graduate from UIN Alauddin Makassar with a GPA of 3.75/4.00, experienced in laboratory analysis, quality control, scientific research, and laboratory practical coordination. Served as the Microbiology Laboratory Teaching Assistant Coordinator, Basic Chemistry Teaching Assistant, Physical Chemistry Teaching Assistant, and completed a Quality Control Internship at PT Semen Tonasa. Proficient in laboratory testing, analytical instrument operation, data analysis, laboratory documentation, Standard Operating Procedure (SOP) implementation, and Occupational Health and Safety (OHS). Eager to contribute as a Quality Control Analyst, Laboratory Analyst, Quality Assurance, or Research & Development professional in a dynamic and innovation-driven organization.

EDUCATION

Universitas Islam Negeri Alauddin Makassar

Bachelor of Chemistry

2022 – 2026

GPA : 3,75/4,00

PROFESSIONAL EXPERIENCE

Microbiology Laboratory Teaching Assistant Coordinator

UIN Alauddin Makassar

2025 – 2026

- Coordinated all Industrial Microbiology laboratory practical sessions, from preparation and execution to post-laboratory evaluation.
 - Led and supervised a team of teaching assistants to ensure laboratory activities were conducted in compliance with Standard Operating Procedures (SOPs).
 - Oversaw the preparation of culture media, laboratory equipment, reagents, and sterilization processes to ensure laboratory readiness.
 - Guided undergraduate students in applying aseptic techniques, microbial cultivation, and standard microbiological laboratory procedures.
 - Ensured compliance with Occupational Health and Safety (OHS) regulations and laboratory safety standards throughout practical sessions.
 - Evaluated practical session outcomes and maintained accurate, organized, and high-quality laboratory documentation.
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Physical Chemistry Laboratory Teaching Assistant

UIN Alauddin Makassar

2025 – 2026

- Assisted students during Physical Chemistry laboratory experiments.
 - Prepared laboratory equipment and chemicals before practical sessions.
 - Supported data interpretation and laboratory report evaluation.
 - Ensured compliance with laboratory safety procedures and Standard Operating Procedures.
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Basic Chemistry Laboratory Teaching Assistant

UIN Alauddin Makassar

2024 – 2025

- Prepared laboratory equipment, reagents, and chemicals before experiments.
 - Guided students in laboratory techniques and safe laboratory practices.
 - Assisted in laboratory report assessment and experiment evaluation.
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Quality Control Intern

PT. Semen Tonasa

Februari 2025

- Conducted quality analysis of raw materials, clinker, and cement according to Quality Control standards.
- Performed sample preparation following laboratory Standard Operating Procedures.
- Operated X-Ray Diffraction (XRD) instruments for material characterization.
- Recorded, analyzed, and documented laboratory testing results.
- Supported laboratory quality assurance activities while maintaining compliance with Occupational Health and Safety regulations.

RESEARCH EXPERIENCE

Bioaktivitas Minyak Atsiri Kulit Jeruk Keprok (*Citrus reticulata* Blanco) Varietas Selayar terhadap *Staphylococcus aureus* ATCC-6538P dan Radikal Bebas

2025-2026

- Extracted essential oil using the hydrodistillation method.
- Conducted antibacterial testing using the Kirby–Bauer disk diffusion method.
- Evaluated antioxidant activity using the DPPH free radical scavenging assay with UV-Visible spectrophotometry.
- Characterized chemical constituents using Gas Chromatography–Mass Spectrometry (GC-MS).
- Processed and interpreted laboratory data for scientific analysis.
- Prepared scientific reports in accordance with academic research standards.

ORGANIZATIONAL EXPERIENCE

- **Chemistry Student Association, UIN Alauddin Makassar (2025)** – Supported academic programs and collaborated in departmental activities.
- **Division Chair, Student Council (OSIS), SMA Negeri 1 Tual (2020–2021)** – Led the planning and execution of divisional work programs, coordinated team members, and strengthened leadership and organizational management skills.
- **Forum Anak Maren, Tual City (2019–2021)** – Contributed to community empowerment initiatives and child education programs at the regional level.
- **ROOTS Anti-Bullying Program, SMA Negeri 1 Tual (2022)** – Participated in anti-bullying initiatives and supported the creation of a safe, inclusive, and positive school environment.

SKILLS

Technical Skills

- Quality Control
- Laboratory Analysis
- Sample Preparation
- Instrument Operation
- XRD Analysis
- Microbiological Techniques
- SOP Implementation
- Laboratory Documentation
- Data Analysis
- Good Laboratory Practice (GLP)
- Laboratory Safety (K3)
- Microsoft Excel

- Microsoft Word
- Microsoft PowerPoint

Soft Skills

- Analytical Thinking
- Critical Thinking
- Problem Solving
- Attention to Detail
- Leadership
- Teamwork
- Communication
- Time Management

LANGUAGE

- **Bahasa Indonesia — Native**
- **English — Intermediate**