

AKMALIA SOLEHAH

082288787293 | akmaliasolehah00@gmail.com | [linkedin.com/in/akmaliasolehah](https://www.linkedin.com/in/akmaliasolehah) | Pekanbaru

Chemistry graduate from the University of Riau with practical laboratory experience gained through an internship at BBPOM Pekanbaru, laboratory assistant roles, and research in phytochemistry and microbiology. Experienced in sample and reagent preparation, laboratory testing, and the analysis and interpretation of test data. Gained exposure to analytical processes involving UV-Vis, HPLC, AAS, and GC, with an understanding of sample preparation and laboratory analytical procedures. Knowledgeable in the application of Good Laboratory Practice (GLP) and Standard Operating Procedures (SOPs). Detail oriented, analytical, disciplined, communicative, and quality focused.

Education

University of Riau - Pekanbaru

Aug 2022 - Jun 2026

Bachelor of Chemistry, GPA 3.58/4.00

Thesis: Phytochemical Profile and Antivibriosis Activity of Methanol Extract and Essential Oil of Curcuma xanthorrhiza Rhizome

- Performed sample preparation, methanol extraction, essential oil distillation, and standardization of medicinal plants by testing water content, ash content, milk drying, and air-soluble and ethanol content according to medicinal plant quality parameters.
- Performed total phenolic and total flavonoid analyses using a UV-Vis spectrophotometer, including sample preparation, preparation of standard solutions, dilution, and interpretation of results.
- Prepared culture media, sterilized equipment using an autoclave and aseptic techniques, and tested antibacterial activity by determining Minimum Inhibitory Concentration (MIC) and Minimum Bactericide Concentration (MBC).
- Performed analysis and interpretation of research data, including compound characterization results using HPLC and GC-MS to support composition profile analysis and the preparation of scientific reports.

Experience

Balai Besar Pengawasan Obat dan Makanan - Pekanbaru

Feb 2025 - Jun 2025

Intern Staff - Traditional Medicine and Health Supplement Laboratory

- Prepare samples, reference solutions, and solvents for laboratory analysis, including weighing, extraction, acid digestion, pH adjustment, evaporation, and dilution.
- Prepare mobile phases for HPLC analysis through filtration and sonication, and prepare mobile phases for TLC testing according to laboratory procedures.
- Involved in testing processes using HPLC and AAS, including preparation of test solutions and instruments, and interpretation of analytical results.
- Carry out laboratory testing support activities, including organoleptic testing and pH meter calibration according to procedures.
- Record, digitize, and archive laboratory documents to support test data traceability and management.

University of Riau - Pekanbaru

Aug 2025 - Des 2025

Basic Chemistry Laboratory Assistant

- Conducted trials and optimized lab procedures to ensure experiments yielded results consistent with lab principles.
- Prepared lab reagents, equipment, and materials, and ensured implementation followed laboratory SOPs.
- Assisted over 90 students during labs, providing guidance on the use of equipment and experimental procedures, and explaining lab materials.
- Reviewed and assessed student lab reports based on established assessment guidelines.

Organizational experience

Chemistry Student Association (HIMAKI) - Pekanbaru

Feb 2023 - Des 2023

Head of the Journalism - Information and Communication Division

- Coordinated a four-person team in assigning tasks and reviewing captions before publication on Instagram.
- Edited departmental magazine articles regarding the facilities and laboratory instruments of the Chemistry Department at the University of Riau.
- Compiled administrative documents and official correspondence to support the implementation of the Multimedia School Program.

Skills

- **Technical Skills** : Sample and reagent preparation, laboratory testing, chemical analysis, data interpretation, laboratory documentation, Good Laboratory Practice (GLP), and Standard Operating Procedures (SOP).
- **Software Skills** : Ms. Office (Word, Excel, PowerPoint).
- **Personal Skills** : Meticulous, adaptable, skilled in time management, fast learner, analytical thinker, and communicative.
- **Certificate** : Food Quality Control in Action – Mindo Education