

Manzilah

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About Me

A graduate of IPB University Vocational School with a Bachelor of Applied Science in Chemical Analysis and a strong interest in analytical chemistry and industrial applications. Experienced in laboratory activities, including sample preparation, testing, instrumental analysis, and evaluation of analytical results. Skilled in laboratory documentation, K3 practices, and regulatory compliance across chemical, pharmaceutical, food, halal, and laboratory sectors. Certified in Chemical Analysis by the Indonesian Professional Certification Authority (BNSP). Honest, responsible, disciplined, and detail-oriented, with strong teamwork and independent working skills. Proactive in applying green chemistry principles to develop efficient and sustainable solutions.

Educational Background

Chemical Analysis, IPB University Agust 2022 – Agust 2026

- Proficient in sample preparation, volumetric and gravimetric analysis, qualitative and quantitative testing, and organic compound identification.
- Skilled in operating and applying analytical instruments, including HPLC, UV-Vis spectrophotometry, electroanalytical instruments, and other laboratory instrumentation.
- Experienced in analytical testing and quality control for pharmaceutical, food, chemical, clinical, natural products, petrochemical, and nanotechnology applications.
- Knowledgeable in laboratory K3, laboratory quality systems, analytical method validation, chemical waste management, and compliance with established procedures and standards.
- Skilled in processing and interpreting analytical data, applying chemometric methods, utilizing chemical analysis software, and evaluating test results.
- Experienced in preparing laboratory reports, recording analytical results, maintaining test documentation, and applying standardized laboratory procedures
- Experienced in chemistry-based projects and practicals involving experimental planning, product development and testing, optimization, data analysis, and exploration of innovative solutions through a scientific approach.
- Active student with student community in Bogor (HIMAICI)

Science Graduate, Senior High School 1 Gunung Putri July 2019 – Jun 2022

- Always get 2th rank for each class with an average score of 89.90 report cards out of a scale of 100
- Studied Mathematics, Physics, Chemistry, and Biology as core subjects, developing a strong foundation in natural sciences, analytical thinking, problem-solving, and systematic application of scientific concepts.

Work Experience

Undergraduate Researcher - MXene Materials | University of Indonesia

- Synthesized and characterized Ti- and V-based MXene using an innovative etching approach and conventional etching methods
- Prepared samples and performed material characterization using XRD, XRF, and FTIR to evaluate crystal structure, elemental composition, and functional groups
- Processed and interpreted characterization data to compare the effectiveness of different etching methods and conditions.
- Applied laboratory SOPs and K3 procedures while maintaining systematic experimental documentation.

Analytical Development Intern – R&D | PT Novell Pharmaceutical Laboratories

- Conducted sample preparation and physical and chemical analysis of pharmaceutical raw materials, in-process materials, and finished products.
- Operated laboratory instruments including HPLC/UHPLC, AAS, UV-Vis Spectrophotometer, FT-IR, TLC, Karl Fischer, and Dissolution Tester in accordance with SOP/SOI and GLP principles.
- Recorded, processed, and interpreted analytical data, including evaluation of test results against established specifications and applicable pharmacopoeial standards.
- Supported product development and analytical evaluation activities while maintaining laboratory safety (K3), quality requirements, and proper documentation.

Executive Board – Treasurer | Chemical Students Cooperative

- Recapped and monitored incoming payments and financial transactions.
- Coordinated and maintained communication with suppliers.
- Managed cooperative funds, assets, and related administrative records.

Documentation Team Member | MasukKampus IPB Chapter

- Documented organizational activities through photo and video coverage.
- Supported multimedia operations and served as an event operator.

Certifications & Training

Chemical Analysis | Indonesian Professional Certification Authority (BNSP)

- Applied Occupational Health and Safety (K3) principles in laboratory activities.
- Prepared reagent solutions and standard solutions in accordance with procedures.
- Operated laboratory glassware and analytical instruments.
- Recorded, calculated, processed, and presented analytical test data.

Hands-On Training: Growth Promotion Test (SNI ISO 11133:2016) | LabMania

- Participated in Media Performance Testing training based on SNI ISO 11133:2016, covering testing principles, requirements, sample preparation, and procedures.
- Learned media performance evaluation and standardized microbiology laboratories.
- Developed knowledge of quality testing, procedural accuracy, and compliance with microbiological laboratory standards to ensure valid and reliable test results.

Skills

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| • English | (Medium) | • Typing | (70-80 WPM) |
| • Microsoft 365 | (Medium) | • VN application | (Medium) |
| • Google Workspace | (Medium) | • Canva | (Medium) |