



DIMAS ISWAN AHMADI

Career Focus : Analytical Development

Domicile : Tangerang, Banten

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PROFILE

Bachelor's of Science in Chemistry with professional experience in analytical laboratory testing, method development, and instrumentation-based analysis. Experienced in analytical troubleshooting, data interpretation, and laboratory testing using analytical instruments in industrial and research environments. Committed to analytical Method development, validation, and continuous improvement in pharmaceutical quality systems

WORK EXPERIENCE

Research and Development Departement, PT Imedco Djaja, Indonesian

Staff Analytical Development

Dec 2024 - Present

- Developed and optimized testing methods for pharmaceutical products using analytical laboratory instruments include HPLC, UV-Vis, FTIR, and ICP-OES.
- Performed analytical troubleshooting and instrument parameter adjustments to improve testing reliability, data accuracy, and analytical performance.
- Conducted analytical method validation and verification in accordance with pharmaceutical quality procedures and laboratory standards.
- Successfully optimized the volumetric, HPLC and ICP-OES analysis.
- Collaborated with Quality Control teams during analytical method transfer and implementation processes.
- Maintained laboratory documentation and analytical records in compliance with pharmaceutical quality systems and standard operating procedures.

Research and Development Departement, PT. Pertamina, Indonesian

Assistant Chemist (Internship)

Sep 2023 - Aug 2024

- Developed and optimized SAPO-34 zeolite formulations through hydrothermal synthesis to improve catalyst crystallinity and product yield.
- Performed material characterization using XRD and XRF to evaluate crystallinity, elemental composition, and catalyst properties.
- Conducted analytical data collection, interpretation, and evaluation to identify the optimum SAPO-34 formulation.
- Participated in hydroprocessing catalyst development projects, including hydrodemetallization, hydrocracking, and hydroisomerization applications.
- Characterized catalyst materials using XRD, XRF, Surface Area Analyzer (SAA), and NH₃-TPD instruments to assess catalyst performance and physicochemical properties.
- Interpreted chromatographic data generated by Gas Chromatography (GC) for fuel product analysis and catalyst performance evaluation
- Conducted an undergraduate research project on Hydrocracking Hydrotreated Vegetable Oil (HVO) using NiW/BEA-Al₂O₃ catalyst, achieving an A (100/100) evaluation from supervisors and examiners.

Laboratory Center, UIN Syarif Hidayatullah Jakarta, Indonesian

Laboratory Assistant Organic Chemistry

Sep 2022 - Jan 2023

- Supervised organic synthesis laboratory sessions and guided students in conducting experiments and analytical procedures.

- Delivered technical presentations and laboratory briefings to 52 chemistry students, strengthening scientific communication and instructional skills.
- Evaluated laboratory reports and student performance to ensure understanding of experimental concepts and analytical results.
- Coordinated laboratory reagents, consumables, and equipment requirements for 12 student teams to support efficient laboratory operations.
- Assisted in maintaining laboratory equipment functionality and operational readiness, including routine checks and laboratory preparation activities.

EDUCATION

Universitas Islam Negeri Syarif Hidayatullah Jakarta - Major in Chemistry

2020 - 2024

- Undergraduate Thesis: Hydrocracking Hydrotreated Vegetable Oil (HVO) Using Catalyst NiW/BEA-Alumina : A Case Study in PT Pertamina (Persero)
- Relevant Coursework: Food Chemistry, Chemical Process Industry, Qualitative & Quantitative Analytical Chemistry, Environmental Chemistry, Chemical Laboratory Management, and Spectroscopy Instrument
- GPA : 3,50/4,00
- Achievement:

Finalist - Indonesia Research & Innovation Fair (IRIFair) BRIN 2025

Presented scientific research related to catalyst development and analytical characterization in a national-level research and innovation competition organized by BRIN.

CERTIFICATE AND TRAINING EXPERIENCE

Instrumentation & Analytical Techniques

- High Performance Liquid Chromatography (HPLC) - **TemanLab**
- Fourier Transform Infrared Spectroscopy (FTIR) - **PT Ditek Jaya**
- Analytical Development in Pharm Industry - **TemanLab**
- X-Ray Fluorescence (XRF) - **TemanLab**
- X-Ray Diffraction - **UIN Jakarta Webinar**

Laboratory Quality & Compliance

- Good Manufacturing Practice - **PT Imedco Djaja**
- Good Laboratory Practice (GLP) - **DDSAZ E-Learning Academy**
- Data Integrity - **PT Imedco Djaja**
- Out of Specification (OOS) - **PT Imedco Djaja**
- ISO 17025:2017 (General Requirements for the Testing and Calibration Laboratories) - **DDSAZ E-Learning Academy**

Quality Management Systems

- ISO 9001:2015 (Quality Management Systems) - **Mindo Education**
- ISO 45001:2018 (Occupational Health and Safety Management Systems) & SMK3 PP No. 50 Tahun 2012 - **Mindo Education**
- ISO 14001:2015 (Environmental Management Systems) - **Mindo Education**

SKILL

Analytical Instrumentation: HPLC | UV-Vis | ICP-OES | FTIR | XRD | XRF | GC

Analytical Expertise: Testing Method Development | Validation | Troubleshooting | Data Interpretation

Laboratory & Quality Systems: GMP | GLP | ISO 17025 | Data Integrity | Kaizen | OOS Investigation

Software: Microsoft Office | OriginLab | ChemsSketch