

ARVITA WULAN PURNAMASARI

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PROFILE

Chemistry graduate with 2 years of hands-on laboratory experience as a Laboratory Assistant and Research Intern. Experienced in analytical testing, physicochemical testing, microbiological testing, sample preparation, literature study, data analysis, laboratory documentation, and operation of analytical instruments, including UV-Vis, HPLC, GC, and AAS. Familiar with GMP/CPOB, GLP, Quality Microbiology Compliance, CAPA, Root Cause Analysis, and ISO 17025 principles, supported by training programs. Laboratory and training experience have shaped me into a detail-oriented, disciplined, SOP-driven professional, able to work both independently and collaboratively, with a strong willingness to learn, communication skills, and analytical thinking. Seeking an opportunity to contribute to analytical development in the pharmaceutical industry, including method development, validation, dissolution testing, and analytical documentation.

WORK EXPERIENCE

Universitas Negeri Semarang – Semarang, Jawa Tengah

August 2023 – December 2023, August 2024 – July 2025

Laboratory Assistant at Analytical Chemistry Laboratory, Chemistry Laboratory

- Conducted various analytical testing, i.e., physicochemical testing, including proximate analysis (moisture, ash, carbohydrate, lipid, protein), antioxidant assays, pH, viscosity, solubility, color, and odor, to evaluate sample quality and composition.
- Handled Pharmaceutical Instrument Analysis courses and conducted antioxidant assays, determination of active ingredient content, purity tests, and impurity tests of pharmaceutical samples.
- Supervised 50+ students per semester in conducting laboratory experiments, analytical testing, data analysis, and interpretation, and conducted all laboratory activities in compliance with SOPs, safety laboratory practices, and procedures.
- Operated analytical instruments such as UV-Vis spectrophotometer, HPLC, AAS, and GC to perform analysis of chemical compounds and sample composition.
- Prepared laboratory reagents, prepared samples, maintained laboratory equipment, and ensured laboratory cleanliness and safety management to support efficient laboratory activities.
- Collaborated with the team in laboratory operations by supporting data recording, documentation, result reporting, and proper handling of laboratory waste and sample disposal procedures.

Badan Riset dan Inovasi Nasional (BRIN) – Tangerang Selatan, Banten

February 2024 – July 2024

Research Intern at Surface Chemistry and Microbiology Laboratory, Research Center for Chemistry

- Performed research and development, including laboratory-scale experiments, sampling, sample preparation, and analytical testing, for nanomaterials and antibacterial agents while ensuring compliance with SOPs and laboratory safety standards.
- Performed analytical method development, i.e., method validation, including accuracy, precision (repeatability & reproducibility), specificity, linearity, LOD, and LOQ, to ensure product prototype quality, analytical method reliability, and consistency.
- Operated UV-Vis spectrophotometer and supported analytical data interpretation for concentration analysis and quality evaluation.
- Carried out microbiological testing, including antibacterial assays and Total Plate Count (TPC) analysis, to evaluate antibacterial activity and monitor microbial growth in samples.
- Supported aseptic, sanitation, and sterilization procedures to maintain cleanliness, contamination control, and compliance with safety standards.
- Performed data processing, analysis, and reporting with Microsoft Office (Word, Excel, and PowerPoint).
- Prepared samples, managed laboratory chemicals and equipment, documented experimental results, and contributed to daily data reporting, continuous improvement activities, and troubleshooting activities within team-based research projects.

SKILLS

- **Technical Skills:** Analytical Method Development; Method Validation & Verification; Analytical Testing; Sample Preparation; Sampling; Laboratory Instruments Analysis (UV-Vis, HPLC, GC, AAS); Physicochemical Testing; Microbiological Testing; Laboratory Documentation & Scientific Report Writing; Data Analysis & Interpretation; GMP/CPOB; GLP; CAPA & RCA; ISO 17025 Principles; Laboratory Safety & Management; Research and Development (R&D); Microsoft Office (Excel, Word, PowerPoint)
- **Soft Skills:** Attention to Detail; Teamwork; Communication; Time Management; Discipline; Analytical Thinking; Problem Solving
- **Language:** Indonesian (Native Proficiency); English (Working Proficiency)
- **Seminar, Course, and Training:** CPOB Training (Makin Ahli); CAPA and Root Cause Analysis Training (Makin Ahli); GLP Training (Makin Ahli); ISO 17025:2017 Training (Makin Ahli); Quality Microbiology Compliance Lead Training (Latih); Validation and Verification of Chemical Testing (Teman Group); Estimation of Measurement Uncertainty Training (PT. Maja Bintang Indonesia)

EDUCATION

Universitas Negeri Semarang – Semarang, Jawa Tengah

August 2021 – August 2025

Bachelor of Science in Chemistry

- **GPA** 3.70/4.00
- **Relevant Coursework:** Analytical Chemistry, Basic Chemistry, Organic Chemistry, Spectrometry and Chromatography, Laboratory Management, Chemistry Practicum, Microbiology, Inorganic Chemistry
- **Organization:** Staff of Information and Networking Development, Student Scientific Center, Universitas Negeri Semarang (2022 – 2023)

PUBLICATION & ACHIEVEMENTS

- **Co-author** – AIP Conference Proceedings (Scopus-indexed), 2026
- **Oral Presenter** – The 10th International Symposium on Applied Chemistry (ISAC), 2024
- **Awardee** – Program Kreativitas Mahasiswa (PKM), 2023
- **1st Place** – Pekan Ilmiah Mahasiswa MIPA Essay Competition, 2022