



ZAHRATUSSA'ADAH

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PERSONAL PROFILE

A Chemistry graduate from Syarif Hidayatullah State Islamic University Jakarta with a concentration in Environmental Analytical Chemistry. Skilled in operating chemical instrumentation (HPLC, LC-HRMS, and LC-MS/Q-TOF) as well as other laboratory equipment. A meticulous and disciplined individual who can work both independently and in a team, with a strong enthusiasm for exploring new tools and chemical instruments. Highly passionate about pursuing a career as an instrument operator, chemical analyst, Quality Control (QC), or Research and Development (R&D).

EDUCATIONAL BACKGROUND

SYARIF HIDAYATULLAH STATE ISLAMIC UNIVERSITY JAKARTA

2019 – 2023

Bachelor of Science

- GPK 3.80 / 4.00
- Thesis: “Green Technology: Extraction of Tannins From Black Tea Waste by Microwave Assisted Extraction (MAE) Method As A Steel Corrosion Inhibitor ”

WORK EXPERIENCE

PT. INTEGRASI LAB INDONESIA

Jan 2025 – Now

Research and Development Staff

May 2025 – Now

- Conducted research on the latest innovations and trends to support the development of company products and services
- Prepared technical content briefs for the company’s Instagram, focusing on chemistry-based innovations with accurate, relevant, and audience-friendly information
- Developed, modified, and tested chemical methods/formulations according to client requests and specifications
- Designed and executed method trials and equipment testing to measure specific parameters based on project requirements
- Calculated Cost of Goods Sold (COGS) based on chemical composition, equipment efficiency, and production process costs
- Collaborated with technical teams and laboratory analysts in carrying out trials, method validation, and evaluation of test results
- Held concurrent responsibilities as R&D staff and Laboratory Analyst from May 2025 to January 2026

Laboratory Analyst

Jan 2025 – Jan 2026

- Operating chemical instrumentation such as Liquid Chromatography High Resolution Mass Spectrometry (LC-HRMS) and Liquid Chromatography Quadrupole Time-of-Flight (LC-QTOF)
- Analyzing test result data
- Analyzing samples of LC-HRMS and LC-QTOF

- Regularly inspecting, cleaning, and calibrating equipment to ensure accurate and reliable test results

NATIONAL RESEARCH AND INNOVATION AGENCY (BRIN)

Feb 2024 – Dec 2024

Instrument Operator

- Operating and maintaining chemical instrumentation such as Liquid Chromatography High Resolution Mass Spectrometry (LC-HRMS) and Liquid Chromatography Quadrupole Time-of-Flight (LC-QTOF)
- Processing sample data from testing results using Compound Discoverer 3.3 and Qualitative and Quantitative Analysis of MassHunter Acquisition Data
- Making a test result report as the final result of the analysis

NATIONAL RESEARCH AND INNOVATION AGENCY (BRIN)

July 2022 – Sep 2023

Student Researcher

- Extracting organic materials using Microwave Assisted Extraction (Mars 6, CEM Corporation, USA)
- Measuring polyphenolic compounds using *High Performance Liquid Chromatography* (HPLC)

WATER TECHNOLOGY CENTER BEKASI

Jan 2022 – Mar 2022

Laboratory Analyst

- Experience in drinking water and groundwater quality analysis based on physical, chemical, and microbiological parameters.
- Participate in the treatment of peat water into clean water

PUBLICATION

SEPARATION TECHNIQUE OF TANNINS AND CAFFEINE IN BLACK TEA USING MODIFIED MICROWAVE-ASSISTED EXTRACTION AND HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY (2024)

International Journal of Technology <https://doi.org/10.14716/ijtech.v15i6.7116>

BLACK TEA WASTE AS CORROSION INHIBITOR FOR CARBON STEEL IN 0.5 M HCL MEDIUM (2023)

Indonesian Journal of Chemistry <https://doi.org/10.22146/ijc.84891>

TRAINING CERTIFICATE

• LC-MS Method Validation University of Tartu	2025
• High Performance Liquid Chromatography (HPLC) TemanLab	2025
• Spectrophotometer UV-Vis Integrasi Institute	2025
• PSA on Varian LA 960 and SZ 100Z Instrument Unitama Multikarya Perkasa	2024
• Management of Instrument Laboratory TemanLab	2023
• Occupational Health and Safety Management System based on ISO 45001:2018 TemanLab	2023

ACHIEVEMENT

• Best Graduate of Chemistry Study Program – UIN Jakarta	2023
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ABILITY

- Microsoft Office
- Analytical Chemistry
- Environmental Chemistry
- Chemical Instrumentation (HPLC, LC-HRMS, LC-QTOF, UV-VIS Spectrophotometry)
- Chemical Instrumentation Software (Revident, Chromeleon 7, Compound Discoverer 3.3 and Qualitative and Quantitative Analysis of MassHunter Acquisition Data)