



Desi Saragih

Laboratory Analyst | Research and Development | QA/QC | MT

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Bandar Lampung, Lampung

PROFILE

A graduate of Chemistry from the Sumatera Institute of Technology with a strong interest in Quality Control (QC), Quality Assurance (QA), Laboratory Analysis, Chemical Analyst, and Research and Development (R&D). Possesses two years of experience as a laboratory assistant and has completed an internship at PT. Timuraya Tunggal Karawang as a Quality Control specialist, developing skills in instrument calibration and validation, product analysis, microbiology (antibacterial, regeneration bacteria), and raw material testing. Active in student organizations and previously served as Development Officer and Member of the Supervisory Committee at HMK ITERA. Additionally, has experience in various campus activities, which have developed skills in communication, self-confidence, and the ability to adapt to different environments in various situations.

EDUCATION

Sumatera Institute Of Technology

Agustus 2021 – Agustus 2025

Bachelor of Science in Chemistry (GPA : 3.53/4.00)

- **Thesis** : "Isolation Of Phenolic Compounds From *n*-Hexane Extract Partitions Of *Garcinia macrophylla* Mart. As Antibacterial Agents (*Escherichia coli*)".
- Actively in several event organization HMK ITERA, laboratory assistant, and research assistant.

WORK EXPERIENCE

Sumatera Institute Of Technology

August 2025 – November 2025

Research Assistant

- Profile of **Active Compounds** in *Cinnamomum iners* **Essential Oil** from the Gayo Highlands of Aceh (Sumatra) and Its Potential as an **Antibacterial** and **Anti-inflammatory** Agent for Acne. | [LINK](#).

Sumatera Institute Of Technology

February 2025 – May 2025

Laboratory Assistant of Multifunctional Organic Compounds

- Aspirin Synthesis with the **esterification reaction of phenol**, **reaction of aspirin production**, and **test the aspirin content** of the reaction. | [LINK](#).

Sumatera Institute Of Technology

September 2024 – February 2025

Research Assistant

- **Extraction** and **partitioning**, **isolation** of compounds using **thin-layer chromatography** and **column chromatography**.
- Identifying compounds using a **UV-Vis spectrophotometer**, **FTIR**, and **LCMS** instruments.
- Conducting **antibacterial activity** tests against *Escherichia coli* bacteria.

Sumatera Institute of Technology

August 2024 – December 2025

Laboratory Assistant for Monofunctional Organic Compounds

- **Column Chromatography** and **Thin Layer Chromatography** Isolation of **Curcumin** from Turmeric (*Curcuma longa* L).

Sumatera Institute of Technology

August 2024 – December 2025

Research Assistant

- **Isolated Secondary Metabolite Compounds** From Methanol Extracts of Acacia bark (*Acacia* sp.) as **Antioxidant** Sumatera Institute Of Technology.

- Performed cyanuric acid analysis using acid–base titration.
- Assisted in internal research to determine the optimum pH based on production reference journals.

ORGANIZATION EXPERIENCE

Himpunan Mahasiswa Kimia (HMK) ITERA

February 2024 – January 2025

Staff Division of the supervisory board members

- Supervise the **progress of activities and work programs** in an organization.
- Ensure that all members of the organization **comply with the goals, regulations and policies** that have been **determined** in the organization and **provide evaluations** to improve the organization's work programs.

Himpunan Mahasiswa Kimia (HMK) ITERA

February 2023 – January 2024

Generation development division staff

- Assist in developing the **abilities of prospective members** so that they are ready to take on greater **tasks and responsibilities** in an organization.
- Help train **prospective members** to become **leaders** who are able to **make important decisions** in an organization.

SKILLS & LANGUAGE

- **Languages** : Indonesian and English.
- **Software Skills** : Microsoft Office (Word, Excel, PowerPoint), Google Workspace (Docs, Sheets, Drive), OriginLab, Chemdraw.
- **Soft Skills** : Laboratory Skills, Oriented to Detail, Problem Solving, Adaptability, Teamwork and Analytical Skills.
- **Technical Skills** : UV-Vis Spectrophotometer, Isolation, Titration, Thin-Layer Chromatography (TLC), Column Chromatography.

TRAINING AND CERTIFICATION

- **Good Manufacturing Practices (GMP)/Cara Produksi Pangan Olahan Yang Baik (CPPOB)**, Badan Standardisasi Nasional | [LINK](#).
- **SNI ISO 9001 : 2015 Persyaratan Sistem Manajemen Mutu**, Badan Standardisasi Nasional | [LINK](#).
- **Implementasi SNI ISO/IEC 17025:2017**, Badan Standardisasi Nasional | [LINK](#).
- **Hand On Training Verifikasi Metode Analisis GC** | Labmania Indonesia | [LINK](#).
- **Hand On Training Analisis HPLC** | Labmania Indonesia | [LINK](#).

PROJECT AND WORK PUBLICATION

- **Thesis “Isolation Of Phenolic Compounds From *n*-Hexane Extract Partitions Of *Garcinia macrophylla* Mart. As Antibacterial Agents (*Escherichia coli*)”** | [LINK](#).
 - ❖ Isolation use a normalization chromatography method with silica gel as the stationary phase and ethyl acetate : hexane solvent as the eluent with eluent gradation as the mobile phase.
 - ❖ The **antibacterial bioactivity** test on the *n*-hexane extract partition of *G. Macrophylla* Mart. Bark and pure **phenolic compounds** against *E. Coli* bacteria used the **disc diffusion** method.
 - ❖ The structure of the pure compounds obtained was elucidated using **UV-Vis, FTIR, and LC-MS** instruments.
- **Journal of Community Service: “Sosialisasi Perilaku Hidup Bersih dan Sehat di Panti Asuhan Darul Amanah Jati Mulyo, Lampung Selatan”** | [LINK](#).