

SHIFA SUCITA RATNANINGTYAS

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Detail-oriented and research-driven chemistry graduate with solid experience in R&D and quality control environments. Passionate about laboratory research, supported by hands-on experience in various projects of industrial and academic settings. Adaptive individual with a strong capability in public speaking, also, problem-solving skills are highly developed within 4 years of actively engaging in organizational activities. Other than that, committed to gain lots of new experiences and knowledge ahead, especially in a laboratory field.

EDUCATION

Bachelor of Science, Chemistry

Universitas Jenderal Soedirman – Purwokerto City

August 2021 – August 2025

- **GPA** : 3.55/4.00 (*Cum Laude*)
- **Relevant Coursework** : Method Validation and Verification, Chemical Quality Control and Quality Assurance, Biochemistry, Biotechnology, Biosensor, Medicinal Chemistry, Chromatography, Instrumental Analysis, Organic Chemistry, Laboratory Techniques and Safety.

EXPERIENCES

Quality Control Analyst

February 2026 – Present

PT CS2 Pola Sehat (OT Group) – Bogor City

- Performed routine chemical (physicochemical) analyses on finished goods, raw materials, stability samples, and process water from WTP and WWTP.
- Operated analytical instruments, including pH meter, refractometer, UV-Vis spectrophotometer, and other laboratory equipment, including calibration and result verification.
- Prepared reagents and standard solutions and handled laboratory samples in accordance with established standard operating procedures (SOPs).
- Recorded, processed, and maintained testing data accurately, systematically, and in compliance with laboratory quality management principles.

R&D Intern

August – December 2023

PT Bio Farma (Persero) – Bandung City

- Performed QC testing on DNA and RNA samples using spectrophotometry (Implen NanoPhotometer) and Qubit Fluorometer to assess concentration and purity.
- Conducted routine pH and conductivity testing on vaccine formulations and buffers to ensure compliance with CPOB standards.
- Supported ELISA assays for antigen-antibody detection to verify vaccine potency and immunogenicity.
- Assisted in electrophoresis procedures for qualitative analysis of nucleic acids, maintaining precise documentation and adherence to lab SOPs.
- Operated in a GMP-like environment, upholding traceability, accuracy, and safety compliance in all QC activities.

Laboratory Assistant

2024 – 2025

Universitas Jenderal Soedirman – Purwokerto City

- Operated core laboratory instruments—including HPLC, UV-Vis spectrophotometer, pH meter and conductivity meter, autoclaves, microscopes, incubators, BSC, micropipettes, and electrophoresis apparatus—and performed volumetric titration to support basic and advanced chemical analysis
- Trained 200+ students in laboratory safety, proper instrument handling, and aseptic techniques, reducing procedural errors during practical sessions.
- Responsible for processing practicum final score using Microsoft Excel.

Undergraduate Final Project —

October 2024 – March 2025

Partial Purification and Characterization Urease Enzyme from Black Soybean Seeds (*Glycine max* (L.) Merrill) Using Acetone

- Isolated and partially purified urease enzyme from black soybean using acetone fractionation, achieving 2.6x higher purity than the crude extract.
- Characterized enzyme stability and activity under varying temperature, pH, substrate concentration, and storage time, and identified optimal working conditions (35 °C, pH 7, 550 ppm urea) using Spectrophotometer UV-Vis.
- Determined molecular weight profile using SDS-PAGE, one of which was suspected to be the urease enzyme.
- Applied strict documentation and method validation principles during laboratory work.

EXTRACURRICULAR

Student Executive Board MIPA Unsoed

Event Coordinator — Student Orientation Program

2023

- Curated and implemented a comprehensive event schedule, increasing engagement and participation by 40% compared to previous years.
- Fostered a collaborative team culture rooted in openness, creativity, and problem-solving, resulting in zero critical execution errors throughout the event.
- Coordinated and secured participation from 6 distinguished alumni speakers, enriching the program's relevance and career insights for attendees.

Staff of Student Resource Development

2022

- Facilitated students in leadership education, soft skill development, organizational management, and character development by holding some events, such as a Seminar about Toxic Productivity and "Sekolah Pengembangan Diri".
- Established and maintained strategic collaboration with 11 student organizations within the Faculty of Mathematics and Natural Sciences to support a continuous leadership cadetship pipeline, fostering long-term student empowerment initiatives.

COURSES AND CERTIFICATION

Universitas Jenderal Soedirman

2025

UV-Vis Spectrophotometer and Occupational Health and Safety Training.

SKILLS

- **Language:** Indonesia (Advance), English (Intermediate).
- **Hard Skills:** Chemical and Physical Analysis, Instrumentation and Analytical Techniques, Data Interpretation, Microsoft Excel, Microsoft Word (creating word documents, text formatting).
- **Soft Skills:** Detail Oriented, Problem Solving, Analytical Thinking, Time Management, Communication, and Adaptability.