

Hana As-Syifa Khairunnisa

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Bachelor of Chemistry graduate from Universitas Diponegoro with a strong interest in biochemistry, chemical analysis, and environmental chemistry. Experienced in laboratory testing and analysis, including lignocellulosic material characterization, microbiological analysis, and the operation of analytical instruments such as UV-Vis and GC-MS. Demonstrates strong analytical, communication, teamwork, and problem-solving skills, with a high level of attention to detail. Seeking opportunities to contribute to research, quality control, quality assurance, or research and development roles within the chemical industry.

EXPERIENCE

Laboratory Analyst December 2025 – June 2026

Balai Besar Standardisasi dan Pelayanan Jasa Industri Selulosa (Kemnaker Internship Program)

- Conducted analyses of moisture content (TAPPI/ANSI T550 om-22), extractives content (TAPPI T 264 cm-07), ash content (SNI 8401:2017), holocellulose (SNI 1303:2021), α -cellulose (ASTM D1103), pentosan (SNI 8430:2017), and lignin (SNI 8429:2017) in pulp, wood, and non-wood raw material samples in accordance with applicable standard methods
- Conducted method verification for pectin content determination in accordance with SNI 14-2238-1991
- Processed and evaluated laboratory testing data and prepared analytical report

Laboratory Assistant for Biochemistry

September 2024 – December 2024

Universitas Diponegoro

- Assisted and supervised a total of 43 undergraduate students in small-group laboratory sessions on amylase enzyme isolation, preliminary purification, and specific activity assays
- Prepared laboratory materials and equipment, ensured compliance with laboratory safety procedures, and developed and assessed quizzes and laboratory reports

Laboratory Assistant for Basic Chemistry

February 2024 – June 2024

Universitas Diponegoro

- Assisted and supervised undergraduate students in small-group sessions during the "Chemical Reactions III: Enzymatic Catalysis" laboratory experiment, supporting a total of 45 students throughout the course
- Prepared laboratory equipment and materials, ensured compliance with laboratory safety procedures, and developed and graded quizzes and laboratory reports

Laboratory Analyst

December 2023 – January 2024

Bidang Laboratorium Forensik Polda Jawa Tengah (Internship)

- Participated primarily in the identification of evidence suspected of containing methamphetamine using Gas Chromatography-Mass Spectrometry (GC-MS) and gained exposure to the analysis of other forensic samples, including urine, tablets, and cannabis.
- Developed an understanding of forensic laboratory SOPs, analytical reporting systems, and data security and confidentiality principles

EDUCATION

Universitas Diponegoro

August 2021 – June 2025

Bachelor of Chemistry | GPA: 3.67/4.00

RESEARCH PROJECTS

Integrated Chemistry Laboratory Course

March 2024 – June 2024

*Isolation of Endophytic Bacteria from Singkil Leaves (*Premna corymbosa*) and Screening of Extracellular Enzymes*

- Isolated and identified endophytic bacteria from singkil leaves (*Premna corymbosa*).
- Conducted screening of extracellular enzyme activities, including amylase, lipase, protease, pectinase, cellulase, and gelatinase

Undergraduate Thesis Research

August 2024 – June 2025

*Purification and Characterization of Pectinase from Endophytic Bacterium *Acinetobacter junii* Z3 Isolated from Waru Bark (*Hibiscus tiliaceus*)*

- Produced and purified pectinase enzyme from *Acinetobacter junii* Z3.
- Evaluated enzyme activity under various temperature and pH conditions.
- Determined enzyme kinetic parameters (K_m and V_{max})

SKILLS

Technical Skills : Chemical and biological laboratory techniques, laboratory testing and analysis, UV-Vis and GC-MS instrumentation, Microsoft Office (Word, Excel, PowerPoint), ChemDraw, and scientific report writing

Soft Skills : Problem-solving, communication, time management, adaptability, teamwork and collaboration, and attention to detail