

# ZAHRANI KHOTFI ROSYIDA MUKTI

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## SUMMARY

Bachelor of Chemistry graduate from Universitas Brawijaya (2026) with experience in lab analysis, quality control, and food safety through internships at PT. Multi Sarana Indotani, BPOM, and as a lab assistant. Skilled in chemical analysis, operating various lab instruments (HPLC, AAS, GC, FTIR, UV-Vis spectrophotometer, Kjeldahl system, Karl Fischer titrator, viscometer, refractometer, rotary evaporator and pH meter), method validation, data analysis, and preparing lab documentation according to standards. Understands the application of Food Safety, ISO, GLP, GMP, CPPOB, HACCP, BPOM regulation and Laboratory K3. Successfully contributed to the BPOM MD registration of two processed food products. Proficient in Microsoft Office, Google Workspace, Canva. Committed to being an adaptive, thorough, and communicative, with strong enthusiasm to apply chemistry knowledge to produce quality products, supported by competencies in Quality Control, Quality Assurance, Research and Development, food safety, and lab analysis.

## EDUCATION

**Brawijaya University - Malang, East Java**

**August 2022 – July 2026**

**Bachelor of Chemistry (GPA : 3.67/4.00)**

- Relevant courses : Laboratory Practices, Applied Analytical Chemistry, Food Biochemistry, Instrumental Analysis
- Thesis : Development of an Aluminum Hydroxide–Lactose Methacrylate Gel for Phosphate Adsorption in Diffusive Gradients in Thin Films (DGT).
- Recipient of the U-Go Scholarship awarded by the Inotek Foundation for 4 years

## WORK EXPERIENCES AND INTERNSHIPS

**Laboratory Analyst Assistant for Fertilizers and Pesticides (Intern)**

**July 2025 – August 2025**

**PT. Multi Sarana Indotani (MSI), Mojokerto, East Java**

- Conducted testing on 200+ samples, including active pesticide ingredients, nitrate, phosphate, and potassium levels according to testing methods, as well as physics and chemical property analysis.
- Operated HPLC, AAS, GC, UV-Vis spectrophotometer, Kjeldahl system, Karl Fischer titrator, digester, moisture balance, and pH meter to support lab tests.
- Prepared standard solutions and calibration curves using certified reference materials according to analysis procedures.
- Performed checks on Internal Reference Material (IRM) and Raw Materials (RM) to support traceability of analysis results and investigations of out-of-specification test results (OOS).
- Prepared and maintained records and reports to support QA activities.

**Food Safety Facilitator (Intern)**

**February 2025 – June 2025**

**Food and Drug Supervisory Agency (BPOM), Surabaya, East Java**

- Prepared BPOM MD registration documents for two processed food products in Malang, East Java.
- Conducted evaluations and provided feedback on CPPOB documents, including quality guidelines, production processes, production facility layouts, raw material and packaging material specifications, sanitation, food claims, and pest control according to BPOM regulations.
- Assisted in the implementation of CPPOB, GMP, HACCP, and SSOP.
- Supported processed food manufacturers in applying Good Processed Food Production Practices (IP CPPOB) in line with food safety, BPOM regulations, and product registration via e-reg RBA.
- Designed labels according to BPOM labeling requirements as part of the product registration process.

**Laboratory Assistant (Part-time)**

**August 2024 – July 2026**

**Chemistry Laboratory, Brawijaya University**

- Guided 200+ students in quantitative analysis lab sessions (distillation, chromatography, and titration), sample analysis, and applying K3 lab safety principles.
- Operated equipment and assisted students with HPLC operation, refractometer operation, sample analysis, and troubleshooting techniques during lab sessions.
- Prepared samples correctly and according to procedures to ensure smooth lab sessions and accurate analysis results.
- Evaluated lab reports and provided feedback to improve analysis accuracy, data interpretation, and student competence.

## SERTIFIKASI DAN PELATIHAN

**Microsoft Excel, Word, dan Powerpoint – MySkill (2026) | [E-Sertifikat](#)**

**Laboratory Instruments**

- HPLC, AAS, FTIR, ICP-MS, GC-MS – Teman Lab (2026) | [E-Sertifikat](#)

**Laboratory Quality Management**

- ISO 17025:2017, ISO 9001:2015, GLSP – Teman Lab dan Cutting Edge Group (2026) | [E-Sertifikat](#)

**Food Safety**

- First Level Food Safety Extension – BPOM (2025) | [E-Sertifikat](#)
- Food Laboratory Testing Techniques – Teman Lab (2026) | [E-Sertifikat](#)
- GMP, HACCP, ISO 22000:2018, FSSC 22000, QA, QC – Makin Ahli (2025) | [E-Sertifikat](#)

**Laboratory and Environmental Testing**

- Estimation of Measurement Uncertainty in Chemical Testing – Teman Lab (2026) | [E-Sertifikat](#)
- Occupational Health & Safety and Emergency Response – K3L Division UB (2026) | [E-Sertifikat](#)
- Preparation of AMDAL, UKL-UPL and SPPL Documents – Teman Lab (2026) | [E-Sertifikat](#)

**SKILLS**

**Technical Skills** - Chemical Analysis; Laboratory testing; Instrumental Analysis (HPLC, AAS, GC, FTIR, UV-Vis spectrophotometer, Kjeldahl system, Karl Fischer titrator, moisture balance, viscometer, refractometer, rotary evaporator, pH meter, digester, and titration equipment). Laboratory documentation and record-keeping; Food Safety Implementation, ISO, GLP, GMP, HACCP, Laboratory Safety (K3); BPOM regulation; Data Analysis using Microsoft Excel, SPSS, ChemDraw, Canva, and Google Workspace.

**Personal Skills** – Detail-oriented; Able to work in a team; Communicative; Leadership; Adaptive; Time management, and Problem-solving.

**Language Skills** – Indonesian (fluent), English (TOEFL ITP: 470)

**PROJECT EXPERIENCE**

**Development of Aluminum Hydroxide Gel in Methacrylate Lactose for Phosphate Adsorption Using Diffusive Gradient in Thin Films (DGT) Technique** **February 2026 – July 2026**

- Developed a gel-based tool for adsorbing phosphate pollution in water, optimizing aluminum hydroxide as the adsorbent, and evaluated adsorption results using a UV-Vis spectrophotometer, FTIR, Zeta Potensial, SEM with phosphate adsorption reaching around 50%.

**Herbal Toothpaste Formulation Based on Betel Leaf Extract and Eggshell Powder** **August 2025 – December 2025**

- Formulated toothpaste, tested optimized physicochemical properties using antioxidants from betel leaf extract with rotary evaporator, eggshell powder as a natural abrasive, and evaluated the quality of more than 5 toothpaste variations until meeting the SNI 8861:2020 standard as part of quality control.

**Analysis of Non-Organic N, calcium (Ca) and magnesium (Mg) Levels in the Brantas River Stream** **November 2025 – December 2025**

- Conducted sampling, solution standardization, river water quality analysis related to organic nitrogen levels using the Kjeldahl method according to SNI 06-6993:2005, and measured water hardness through Ca and Mg levels using the complexometric titration method according to SNI 06-6989.12-2004.

**Testing Phosphorus and Moisture Content in Inorganic Fertilizer** **October 2025 – November 2025**

- Determined fertilizer quality compliance by analyzing phosphorus content as P<sub>2</sub>O<sub>5</sub> using UV-Vis spectrophotometry according to SNI 3769:2005 and moisture content according to SNI 2809:2014 using the gravimetric method, and interpreted the data using standard curves and Microsoft Excel.

**Protein Content Analysis in Powdered Milk Using Kjeldahl Method and Biuret Test** **August 2025 – September 2025**

- Analyzed protein content according to SNI 2970:2022 using the Kjeldahl method and conducted qualitative protein tests using the Biuret method, including sampling, reagent preparation, and interpreting the analysis results according to SNI requirements.

**Gluten-Free and Low Glycemic Index Millet Snack Chips Innovation** **January 2023 – March 2023**

- Developed innovative millet-based chips with gluten-free and low glycemic index characteristics by optimizing more than three formulations, performing quality control, evaluating physical characteristics, and applying food safety principles as a healthy snack alternative.

**ORGANIZATIONAL & VOLUNTEER EXPERIENCE**

**Science Technology Engineering and Mathematics (Link-STEM)** **March 2023 – October 2023**  
**Staff of Learning Media Division**

- Developed 10+ disability-friendly science learning media and monitored the progress of five divisions, contributing to improved team work effectiveness.
- Practiced using learning media (animated videos, audio, and material implementation) with 30+ teachers and 200+ students in high schools and special schools in Malang Regency systematically with 90% comprehension rate to support smooth operations.

**Chemist In Action 2023 (HMK UB)** **June 2023 – October 2023**  
**Staff of Divisi Donation, Consumption, and Health Division (DKK)**

- Managed event execution and team coordination (10+ members and 30+ schedules) through donation distribution via digital platforms and data recaps, initial safety training, coordinating consumption fulfillment with partners, and evaluation to reach targets with a 95% program success rate.
- Led events as a host and communicated with 10+ divisions to ensure the event went according to schedule, attended by 100+ participants.

**Be a Volunteer of Sexual Harrantment Awareness (FMIPA UB)** **May 2023 – June 2023**  
**Staff of Equipment Division**

- Carried out program activities and team collaborations including procurement, distribution, communicating with 30+ partners, and inventorying equipment to support smooth event implementation, achieving a 90% success rate.
- Hosted events as an MC and communicated with 10+ divisions so that activities attended by over 100 participants ran according to schedule.

**AWARDS**

- 3rd Place Science Cup PK2F FMIPA UB 2023 – Program Kreativitas Mahasiswa Bidang Riset 2023
- Silver Medal MARSS - MIPA ROAD TO SCIENTIFIC PAPER IN ASEAN COMPETITION 2023
- Top 10 out of 300 participants in The U-Go Writing Competition 2024