



**Fadila Rachma Arsyagami**

**Chemical Analyst**

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## SUMMARY OF QUALIFICATIONS

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I am a Chemical Analysis graduate Highly motivated in Companies in Laboratory Analysis, QC (Quality Control), QA (Quality Assurance), RnD (Research and Development) or any job related to your abilities and open to learning new things. I am a detailed person, adaptable, hardworking and able to work well under pressure.

## EDUCATION

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**Politeknik ATI Padang** – Padang, Sumatera Barat

*Associate Degree* in Chemical Analysis, 3.20/4.00

Final Report : Verification of the Nitrite analysis method in Wastewater samples using the UV-vis Spectrophotometric method based on SNI 06-6989.9-2004.

## TECHNICAL SKILLS

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- **Conventional Analysis** : Applicative Gravimetric Method, Volumetric Methode, Proximate Analysis, Pesticides Analysis, Chemical Construction Analysis, Environment Analysis.
- **Instrument Analysis** : Gas & Liquid Chromatography (GC & HPLC), UV-Visible Spectrofotometer, Colorimeter and Whiteness.
- **Potentiometric Measurement** : pH Meter, Karl Fischer Titration, Viscometer, Solid Content.
- **Software** : MS Excel/Google Sheets, MS Word/Google Docs, MS Power Point, Accurate.

## WORK EXPERIENCES

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**PT Dongsuh Indonesia**

Quality Control & Quality Assurance Analyst

March 2025 – Now

- **Key Responsibility** : Carry out analysis of active ingredients, Supports ingredients, imported ingredients, in-process samples, and finished products. Conduct testing on samples from suppliers according to results in line with ASTM and KSM (Korean Standard Methode) guidelines, ISO 17025 and good laboratory practices.
- **Workload** : Perform qualitative and quantitative analysis of naphthalene-based products including High Purity Naphthalene (HPN), Poly Naphthalene Sulfonate (PNS), and Poly Carboxylate Ether (PCE), in accordance with ISO 17025 and Good Laboratory Practices (GLP)
- Conduct testing on raw materials, in-process samples, and finished products to ensure compliance with company specifications and quality standards.
- Verify and validate analytical methods using High Performance Liquid Chromatography (HPLC), Gas Chromatography (GC), Volumetric Methode, Gravimetri Methode.
- Monitor product quality parameters such as purity, solid content, pH, density, Formaldehyde, SO<sub>4</sub>, Color and Chemical Composition
- Perform routine calibration and monthly verification of laboratory instruments including analytical balances, digital balances, and other testing equipment
- Participate in internal and external audits to ensure complete documentation, ensure process compliance, and demonstrate evidence of quality system implementation.
- Create and control SOPs, work instructions (WI), forms, and quality documents.
- Responsible for handling customer complaints by implementing an end-to-end process, starting from from reporting, product traceability, defect investigation, and root cause analysis using tools such as

5 Whys, Fishbone Diagrams, and Pareto.

- Developing and implementing corrective & preventive actions (CAPA), coordinating with production, engineering, and the warehouse, and ensuring the effectiveness of improvements by monitoring complaint trends.
- Ensure Good Documentation Practices (GDP) and maintain data integrity across all laboratory records and reports.
- Prepare Certificates of Analysis (CoA), maintain batch documentation, archive supplier CoAs, and manage customer complaint records.
- Make weekly, monthly reports of activities in the lab to the Laboratory Supervisor.

### **PT Santani Agro Perkasa**

Quality Control, Quality Assurance & RnD Analyst

March 2023 – March 2025

- **Key Responsibility** : Carry out analysis of active ingredients, Supports ingredients and imported ingredients. Conduct testing on samples from suppliers according to results in line with CIPAC guidelines, ISO 17025 and good laboratory practices.
- **Workload** : Make formulation recipes, examine and analyze pesticide samples (herbicides, insecticides, fungicides, PGRs, rodenticides, acaricides, molluscicides, adhesives, flatteners, penetrators and emulsifiers) both physically and chemically using instrument Analysis and Potentiometric Measurement
- Verification and Validation analytical methods using HPLC, GC, Spectrophotometer UV-Vis.
- Performed monthly verification for analytical balance, digital balance, and platform balance. Ensured good documentation practice and data integrity when reporting manufacturing processes and laboratory activities, creating certificates of analysis and records, archiving supplier COAs, and maintaining customer complaint logs.
- Carrying out further testing and investigation of customers who make complaints.
- Design and develop new product concepts according to market needs and industry trends.
- Conduct research on raw materials and new technologies that can be applied to improve product quality, Update Work Instructions and Standard Operating Procedures as needed.
- Carry out trials on samples for product supporting materials from new suppliers (looking for results that match the specifications set by the company) with the aim of looking for other alternatives if there are availability problems with the main supplier.
- Prepared, labeled and stored retained samples by the date of production for required future investigation.
- Make monthly reports of research activities in the lab. and report the results of each research to the Laboratory Supervisor.

### **PT Asiana Chemicalindo Lestari**

Quality Control, Quality Assurance & RnD Analyst

Juni 2022 – February 2023

- **Key Responsibility** : Carry out analysis of active ingredients, Supports ingredients and imported ingredients. Conduct testing on samples from suppliers according to results in line with CIPAC guidelines, ISO 17025 and good laboratory practices.
- **Workload** : Carrying out inspections, testing and analysis of pesticide samples (Herbicides, Insecticides, Fungicides) with a daily production capacity of 15.000 – 20.000 Liters for Herbicide formulations.
- Conducting further testing and investigations on customers.
- Conducting trials for the manufacture of new products on a lab scale and producing them on a large scale or in production.
- Carry out trials on samples for product supporting materials from new suppliers (looking for results that match the specifications set by the company) with the aim of looking for other alternatives if there are availability problems with the main supplier.
- Prepared, labeled and stored retained samples.

## **PT. Anugrah Analisis Sempurna (AAS Laboratory)**

Laboratory Analyst Intern

February 2021- June 2021

- **Key Responsibility** : Assisted the senior analyst in analyzing customer samples by producing accountable results aligned with ISO 17025 guidelines and good laboratory practices
- **Workload** : Perform 15-25 sample analyses per day as requested by the senior analysts
- Processed numerous samples from various industries into a certain amount of ready-to-analyze samples, such as rocks, sediments, soils, certain parts of plant, pesticides, fertilizers, liquid & solid wastes, waters, frozen foods, packaged foods, and cooking fats.
- Analyzed various parameters in prepared samples, such as :
  - Benzo (a) pyrene content as a contaminant in food products by using HPLC.
  - Polycyclic Aromatic Hydrocarbon as a contaminant in food products, and methoxychlor content in marine water by using GC
  - Total fats and fatty acid composition in cooking fats by sequentially using applicative gravimetric, HPLC and GC.
  - Protein and total nitrogen content in various organic materials by using Kjeldahl Method
  - C-Organic, Cr(VI), ortho phosphate, total phosphate, total ammonia nitrogen, nitrites and nitrates in agriculture and environmental samples by using Spectrophotometer UV-Vis
  - Moisture content in particular samples by using either applicative gravimetric or Karl Fischer Titration.
- Routinely performed quality control for sample analyses including calibration curve making, sample spiking every 20 samples for accuracy control, double replication (Duplo) as repeatability control, and sample blanks.
- Verification and Validation analytical methods using HPLC, GC, Spectrophotometer UV-Vis.
- Performed routine verifications of GC, HPLC, Spectrometer UV-Vis and Karl Fischer auto titrator
- Actively involved in reagents making and chemicals inventory management.
- Performed housekeeping/HSE before and after work.

## **TRAINING & CERTIFICATION**

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- Chemical Analysis in Volumetric Area ( Desember 2021 – Desember 2024 ) Held by LSP Politeknik ATI Padang
- High Performance Liquid Chromatography Held by PT Trimas Utama Scientific (2023)
- Gas Chromatography Held by PT Mulia Sejahtera Scientific (MSci) (2023)
- Good Manufacturing Practices (GMP) Held by Makin Ahli (2021)
- Hazard Analysis and Critical Control Point (HACCP) Held by Makin Ahli (2021)
- ISO 22000:2018 (Food Safety Management System) Held by Makin Ahli (2021)
- FSSC 22000 version 5.1 (Food Safety System Certification) Held by Makin Ahli (2021)
- Quality Assurance and Quality Control Held by Makin Ahli (2021)
- ISO 17025:2017 Held by AAS laboratory (2021)
- Fire Fighting dan Penggunaan APAR Held by AAS Laboratory (2021)
- Achievement Motivation Training Held by Politeknik ATI Padang (2018)