

Kathleen Scott

Chemist

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Recent chemistry graduate with hands-on undergraduate research in organic synthesis and one year of full-time quality control lab experience. Careful documenter, comfortable with lab sample tracking systems and standard analytical instrumentation, looking to grow into a method development role.

Professional Experience

Associate Chemist, Analytical Lab | Grafton Ingredients, Kalamazoo, MI
2023 – Present

- Perform release testing on flavor and fragrance intermediates using gas chromatography, refractometry, and specific gravity, averaging 30 samples per week.
- Prepare and standardize titrants weekly and maintain the reagent log to lab accreditation traceability requirements.
- Flagged an out-of-trend moisture reading on incoming citrus oil that traced back to a shipping container leak; the lot was quarantined before it hit blending.
- Cover routine calibration checks on two Agilent GCs and log all maintenance in the electronic notebook.

Undergraduate Research Assistant | Western Michigan University, Dr. Feldman Lab, Kalamazoo, MI
2021 – 2023

- Synthesized and characterized a small series of substituted benzimidazoles for a screening collaboration with the pharmacy school.
- Ran nuclear magnetic resonance, infrared, and thin-layer chromatography on all intermediates and kept the lab notebook that supported one poster at a regional chemistry meeting.
- Trained two incoming sophomores on Schlenk line technique and column chromatography.

Education

B.S., Chemistry, Western Michigan University, 2023

Minor in Mathematics, 2023

Key Skills

- Gas chromatography, liquid chromatography (intro level), nuclear magnetic resonance, infrared, ultraviolet-visible spectroscopy
- Thin-layer chromatography, column chromatography, recrystallization
- ChemDraw, MestReNova
- Good laboratory practice documentation, lab accreditation basics
- Titration, Karl Fischer, refractometry
- Schlenk line and inert atmosphere technique
- Lab information system, electronic lab notebook