

ARYAN CHAUDHARY

RESEARCH ASSOCIATE - Biology Techniques, Data Analysis & Laboratory Protocol Optimization

✉ chaudharyaryan6352@gmail.com ☎ 6139708028 📍 Kingston, ON in [LinkedIn](#)

SKILLS

- **Molecular & Microbiology Techniques:** Sterility Testing, Sample Preparation, Biosafety Procedures.
- **Analytical Instrumentation & Lab Equipment:** HPLC, UV-Vis Spectroscopy, TLC, FTIR, pH Meter.
- **Quality Assurance & Regulatory Compliance:** GLP/GMP and WHMIS Standards, SOP Development.
- **Data Analysis & Laboratory Systems:** MS Excel, LIMS, Minitab for Quality Analytics, Data Reporting.
- **Laboratory Operations:** Inventory Control, Documentation Management, Process Protocol Improvement.

WORK EXPERIENCE

Omni Customer Fulfillment Associate

October 2023 - Present

Walmart Canada

Belleville, ON

- Processed 300+ daily digital orders with 99% inventory accuracy, ensuring precise product code verification and quantity validation.
- Maintained strict adherence to WHMIS and food safety standards while handling temperature-sensitive inventory, achieving 100% compliance during internal audits.
- Improved order picking efficiency by 20% by reorganizing workflow routes and optimizing packing sequences during peak operational hours.
- Coordinated with cross-functional teams of 25+ staff members to resolve logistics challenges for fulfillment rates.

Laboratory Technician Assistant

September 2023 - April 2025

Loyalist College

Belleville, ON

- Conducted over 150+ microbiological assays, including sterility testing and colony counting, ensuring 98% compliance with institutional quality standards.
- Performed preventive maintenance and calibration on 20+ laboratory instruments, reducing equipment downtime by 25% and improving operational efficiency.
- Collaborated in drafting and revising 15+ Standard Operating Procedures (SOPs), strengthening GLP adherence and improving documentation accuracy by 30%.
- Coordinated in 5+ academic research projects by optimizing experimental protocols, decreasing processing time by 18% while maintaining reproducibility.

PROJECTS

Bacterial Transformation & GFP Expression Analysis using pGLO Plasmid

Loyalist College Biotechnology Laboratory

- Executed CaCl_2 -mediated heat-shock transformation (42°C, 50 seconds) of *E. coli* with pGLO plasmid, achieving successful recombinant growth on selective LB/Amp media with ~150 transformed colonies.
- Designed and analyzed four experimental conditions (LB, LB/Amp, LB/Amp/Ara ± pGLO), confirming arabinose-induced GFP expression through distinct fluorescence under UV and 100% inhibition in negative controls.
- Performed SDS-PAGE (150V, 45 minutes) on extracted protein samples to verify GFP expression at ~27 kDa, ensuring accurate protein denaturation and band resolution using DTT-containing loading buffer.

Dissolution Profile Analysis of Acetaminophen Tablets (USP Compliance Study)

Pharmaceutical Quality Control Laboratory - Loyalist College

- Conducted dissolution testing of 325 mg acetaminophen tablets using USP Apparatus II (Paddle Method), collecting samples at 5–20 minute intervals across 6 vessels under controlled parameters.
- Quantified drug release using UV-Vis spectrophotometry, achieving 93.65% dissolution within 10 minutes and exceeding USP requirement of 80% within 30 minutes.
- Analyzed dissolution kinetics with statistical validation ($\leq 3\%$ RSD) and developed time-course release profiles in Excel to assess process consistency and regulatory compliance.

EDUCATION

Diploma in Biotechnology

September 2023 - April 2025

Loyalist College, Belleville, ON

CERTIFICATIONS

- WHMIS Certification
- Biosafety & Laboratory Safety Training