

## Highlights of Skills and Qualifications

A chemist with a graduate certificate in Cosmetic Science and Bachelors of Science & Engineering degrees with stellar records of successful achievement and extensive experience with O/W and W/O emulsions, gels, pomades, shampoos, conditioners, body wash, hand soaps, lipstick, eye shadow, and OTC formulations; strong track record of accomplishments in reverse engineering skin, body, and hair care products; engagement with regulatory requirements as they relate to cosmetic/personal care formulation, collaborate together and assist with process engineering. Ability to participate in the technology transfer from pilot scale to manufacturing runs.

- ♦ Monitored pilot plants and commercial manufacturing scales independently through compounding process to meet customer specifications.
- ♦ Skilled at supervising various projects of different types of health and beauty products through proper research on resource materials with following regulations and expiry dates to release batches.
- ♦ Ability to communicate and participate in the related project (e.g. Capstone) and report information daily to managements regarding product development and project status with high expertise in computer skills (Microsoft Word, Excel, PowerPoint & Outlook).
- ♦ Skilled in writing and reviewing procedures, arranging meetings, and preparing presentations needed to support R&D activities.
- ♦ Analyzed semi-finished products, added required adjusting ingredients to produce the exact match to prototype.
- ♦ Advanced critical and creative thinking, process mapping, problem solving, troubleshooting qualitative and quantitative analysis skills to successfully highly managing risk production records and procedures.
- ♦ Collaborated with compounding team during FDA and Health Canada auditing process.

## Relevant Upgraded Courses

**2023-2024**

- ♦ Advance Formulation I & II with Laboratory
- ♦ Enhance Raw material and Active Ingredients Knowledge with Laboratory Practice
- ♦ Product Development, Marketing and Sales
- ♦ Product Evaluation
- ♦ Powder Color Compare and the Science
- ♦ Hot pour Products
- ♦ Create a Shade and Eyeshadow

## Capstone Project:

- ♦ Led O/W BUM body Lotion including Formulation, Quality, Regulatory and Packaging.
- ♦ Leveraged strong writing skills to define standard operating procedures (SOP) on the line.
- ♦ Drew on a solid understanding of the manufacturing process to prepare and present a report.
- ♦ Gained an understanding of the body lotion manufacturing and scale up procedures.
- ♦ Calculated and recorded the balance of materials to manage the formulation.
- ♦ Link: [About Us – \(BUM\) Bottoms Up Movement](#)

## Professional Experience

### Private Tutor

2021 – 2022

I worked as a private tutor during 2022, focusing on university-level chemistry and mathematics instruction. I gained valuable experience in this position that helped me improve my teaching abilities. Helping students grasp these courses' principles improved my own comprehension and enabled me to create engaging lesson plans that catered to each student's unique learning preferences. Observing students' academic development and improvement was a fulfilling experience that restored my enthusiasm for mentoring and education.

### Apollo Health and Beauty Care, Toronto, Ontario R&D Chemical Analyst

2018 – 2021

Created first batch adjustment information database within the company. Identified finishing quantities of color, pH adjuster, and viscosity booster to ensure batch meets the specification and quality of the batch by following all processes and SOP instructions. Delivered instructions to compounding team for required changes across different parts of batch, compounding, or process. Produced adjustment sheets and examined documents before R&D management and quality assurance approval. Worked and coordinated compounding, quality, and R&D. Utilized effective chemical engineering and science resource knowledge to manage changes to the batching procedures ensuring necessary adjustments to the master Formula. Provided excel data sheet formula to calculate the finishing quantities of color, pH adjuster, and viscosity booster based on formula concentration. Assisted R&D and QA management of compounding activities of the OOS batches. Participated in meeting and to explain process deviation from the original process to quality management.

- Produced Change Request Form (CRF) and delivered recommendations for formula change based on successful application of previous major adjustments and data trends.
- Established and implemented adjustment plans by utilizing knowledge of raw material such as CAPB, SLS, Crothix, Solubilizers, Citric Acid, and Sodium Hydroxide based on required heating, cooling, and mixing process to achieve specification of finish products.
- Generated excel data sheet to examine data including out of specification batches and number of adjustments under the effect of different batching tank, size of the tank compared to batch size and different type of Anchor, Turbine, High Shear and homogenizer mixer.
- Conducted root-cause analysis and investigation on out of specification batches and related adjustment for e.g. different lots of carbomer (raw materials) used as an ingredient in OTC Beauty Care product.
- Acted as the batch adjuster (R&D Compounding/Chemical analyst) to develop system for plant to approve out of range high risk batches in the quality lab.
- Developed and performed all formulation requirements on new formulas; includes creation of theoretical formulation, bench mix development, product description/formulation sheets, lab tests, stability testing/monitoring, and color verification.
- Documented test results, specifications, and final formula procedures in standard format in Master File.

### Apollo Health and Beauty Care, Toronto, Ontario Quality Laboratory Technician

2015 – 2018

Conducted analytical testing of raw material, in-process and finished products. Maintained all related records within GMP & GLP guidelines. Delivered technical support to complete batches including

troubleshooting of problems. Investigated and documented out of specification results. Developed analytical test methods and performed process audits in the Batching and Pre-Weigh departments. Evaluated and reviewed external laboratory reports and delivered comments to the laboratory. Managed documentation based on SOP and GDP guidelines. Conducted effective training sessions for new lab technicians for related tasks. Coordinated with internal and external FDA and Health Canada audit. Executed analyses using FTIR, GC, HPLC, and wet chemistry. Managed calculation of yield process and examined all the steps in the batch records. Oversaw quality control of raw material and batching process through observation, testing and analysis of the results.

- Coordinated to send out all over-the-counter raw materials, released 2000 semi-finished, and finished products for OTC items.
- Troubleshoot instruments such as: viscometer, pH meter, TOC Analyzer, Densito, FTIR, and densitometer.
- Conducted analysis of the bulk samples to determine viscosity, specific gravity, solids, and pH, compared to the product specifications and generated reports.
- Maintained and calibrated FTIR, densitometer, and other analytical instruments.
- Performed batch documentation reviews and assisted in the investigation of non-conformances, product failures, customer/consumer complaints and quality incidents.
- Conducted process audits in the manufacturing areas (Pre-Weigh and Batching) to ensure compliance with cGMP and company policies and procedures.
- Revamped and restarted the batching quality laboratory with organizational skills to prepare the facility with newly purchased equipment and created a new standard library in the compounding department.
- Performed batch documentation reviews and assisted in the investigation of non-conformances, product failures, customer/consumer complaints and quality incidents.
- Conducted process audits in the manufacturing areas (Pre-Weigh and Batching) to ensure compliance with cGMP and company policies and procedures.
- Revamped and restarted the batching quality laboratory with organizational skills to prepare the facility with newly purchased equipment and created a new standard library in the compounding department.
- Experienced with internal and external audit events. Coordinated and supported the team to provide documentations and justifications required for the audit and required training.

## **Mount Sinai Hospital, Toronto, Ontario Research Assistant (Co-op Intern)**

**2014**

Conducted several research projects and testing samples following Standard Operating Procedures and aseptic technique including preparing controls, reading plates and microbial identifications with interpretation results and QC laboratory equipment.

- Analyzed Triclosan Antimicrobial Resistance Study in approximately 300 pathogenic isolates by examining the effect of Triclosan on different patients with antimicrobial drug resistance.
- Operated Tigecycline Evaluation Surveillance Trial (TEST 2013) to evaluate antibiotic efficiency for both gram negative and gram positive bacteria including documentations and organizing, inoculating and testing alternative methods to increase more efficiency with reviewing data.
- Troubleshoot laboratory equipment including the WASP auto processing machine and the GeneXpert for *C. difficile* testing.
- Analyzed Tigecycline project for a variety of microorganisms by using microscan panel and analyzing to measure antibiotic resistance activity for 200 isolates and informing the manager for the project progress encase of uncertainly results in advance.
- Organized the study for Monitoring Antimicrobial Resistance Trends (SMART 2013), including isolating gram negative pathogens from patients with intra-abdominal urinary tract infections.

- Performed Enzyme Immunoassay and ELISA for the detection of antigens in stool specimens for diagnosis and monitoring.
- Cooperated in publication of reduced susceptibility to Triclosan with increasing in Methicillin-susceptible *Staphylococcus aureus* over the past 20 years.

## **Voyant Beauty, Toronto, Ontario Microbiology Technician (Co-op Intern)**

**2013**

Assigned as a lab technician in an industrial environment for conducting variable techniques and documentations based on SOP and GMP guidelines.

- Tested and logged purified water samples by using membrane filtration method for total aerobic microbial count, absence of *Coliform*, *Pseudomonas spp.*, *Staphylococcus aureus* and *Salmonella*.
- Conducted growth promotion, environmental monitoring and microbial preservative effectiveness test for microbiological growth followed by SOP.
- Prepared different types of media by following standard operating procedures.
- Performed Gram staining, oxidase test and identification of unknown colonies by using microscan ID kits.
- Demonstrated knowledge in suitability and validation testing methods based on USP 61/62 to determine microorganism ability recovery in the target product.

## **Education**

### **Bachelor of Science**

Ryerson University - Toronto, ON

### **Bachelor of Chemical Engineering**

Research & Development University – Tehran, Iran

## **Certifications**

- Fundamental of Surfactants, Emulsions, and Polymers in Cosmetic Formulation, SCC
- Graduate Certificate of Cosmetic Science

## **Affiliations**

Member of Society of Cosmetic Chemist and Golden Key International Honor Society