COBY BAER

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Professional Summary

As a highly motivated STEM graduate from Adams State University, I bring a diverse skillset, and a strong background in pharmaceuticals, microbiology, and analytical chemistry. My rigorous coursework in chemistry, microbiology, and biochemistry has given me a deep understanding into the complex chemical, and biological processes involved in drug development and manufacturing.

As a lifelong learner and dedicated scientist, I have always sought to surround myself with experts in my field. Their guidance and mentorship have been invaluable to my growth and development, helping me to be where I am today.

By consistently participating in laboratory work, I have acquired proficiency in a diverse range of techniques, including data analysis, problem-solving, and good manufacturing processes. The hands-on experiences I've been blessed with, combined with my academic background, have equipped me with the necessary skills to excel in any laboratory role. I am eager to bring my knowledge and dedication to any opportunity or fresh challenge.

In my current position as an analytical chemist, I have further refined my laboratory techniques, and I have improved my craft in not only data analysis, and problem-solving, but also leadership, efficiency, accuracy, method development, validation, preparation, and troubleshooting.

I have extensive experience working with cutting-edge instruments, including high-performance liquid chromatography, gas chromatography, Fourier-transform infrared spectroscopy, total organic carbon analysis, and I possess knowledge in a multitude of other analytical tests/instruments. I have, and always will conduct high-quality work, and deliver reliable results.

My hardworking nature, unwavering dedication, and keen attention to detail have enabled me to consistently accomplish whatever I put my mind to. Whether working independently, or as part of a team, I am confident in my ability to tackle complex challenges and approach every task with a positive attitude, and a team-driven mindset.

Looking to the future, I am excited about the prospect of further developing my skills and making meaningful contributions to the pharmaceutical industry. Whether through additional training, pursuing graduate studies, or seeking out new career opportunities, I am eager to continue building upon my experience and expertise in this dynamic and important field.

Work History

QC Analytical Chemist I 08/2022 - 05/2023

TOLMAR – Fort Collins, CO

·Performed analyses on a variety of pharmaceutical products using both basic, and advanced preparation techniques and analysis methods.

·Participated in inter-laboratory proficiency testing programs and achieved excellent results, demonstrating high proficiency and accuracy in analytical testing.

·Was accountable for documenting all activities and maintaining records according to good documentation practices, and data integrity protocols.

·Was accountable for proper use, and care of advanced analytical instruments, including but not limited to HPLC, GC-MS, and spectroscopy.

·Provided detailed accounts of testing information to investigators. Then, under the direct supervision of an investigator, performed investigational testing.

·Completed tasks on time and worked very hard to eliminate repeat errors.

·Followed all procedures applicable to job functions to ensure high quality of work.

·Prioritized tasks and performed job duties with minimal guidance from management..

·Contributed to a highly productive environment by avoiding distractions.

·Was responsible for ensuring that company and regulatory data integrity guidelines were consistently followed.

·Accountable for maintaining an atmosphere of teamwork, cordiality and respect towards co-workers.

·Interacted respectfully with all other employees both inside and outside of the department, colleagues and management.

·I showed interest in others' input and reasoning, while appropriately resolving differences of opinion.

·Identified issues and reported those issues to the department senior leadership or management as appropriate.

·Provided support to department leadership with the implementation of new systems, and continuous improvement efforts.

·Generated new ideas to create efficiencies and improve processes, willingly supported new ideas and process enhancements.

·Performed all additional duties that were assigned.

Laboratory Technician 04/2021 - 08/2022

Cloud CO Farms – Mosca, CO

Not long after I graduated from Adams State, I got recruited by a high-volume, CBD bio-extraction laboratory where I worked as a lab tech. Our lab utilized the use of cryogenic ethanol extraction.

While I was there, Cloud CO Farms consistently produced high quality, full spectrum product, at a low cost. I spent the majority of my time operating Capna equipment, including two falling film extractors, followed by a wiped film molecular distiller.

Every so often, I would be put in charge of our in-house HPLC to give an analysis of the purity, and related compounds present in the finished product.

My time, and my experience in this role has given me a solid understanding of proficient laboratory operations, expectations, and the importance of attention to detail and adherence to safety protocols, which are essential in ensuring accurate and reliable results.

I am confident that the skills and knowledge I have gained during my time in this role will allow me to excel in future laboratory positions and make significant contributions to any team I join.

Water Treatment Analysis Team W/ Adams State 11/2019 - 03/2021

Pearl Lakes Trout Club – Creede, CO

As a team leader, I oversaw an extensive, year and a half long research program aimed at identifying and mitigating the seasonal influx of phosphate, iron, nitrogen, and sulfur contaminants in eight adjacent lakes in Creed, Colorado. Our work was motivated by the desire to address the declining populations of trout in the spring time that was reported by the community and assigned to a professor I highly respected and was a TA for.

We conducted extensive tests over multiple months to identify and mitigate the seasonal influx of these contaminants, which were negatively impacting the trout population due to the spring temperatures and the subsequent lake turnover.

In accordance to our research objectives, we employed a comprehensive approach that involved conducting numerous tests, collecting and analyzing vast amounts of data, and collaborating with various stakeholders, including government agencies, academic institutions, and local fishing communities.

Through this rigorous and systematic process, we were able to uncover several key insights that shed light on the root causes of the contamination. And proposed several effective interventions to prevent its recurrence.

Our team invested countless man-hours in this project, dedicating our expertise, resources, and passion for environmental science to achieving a positive outcome.

Our efforts were driven by a deep commitment to environmental stewardship and a recognition of the vital role that healthy aquatic ecosystems play in supporting biodiversity, sustaining human communities, and preserving natural resources for future generations.

Overall, our work stands as a testament to the power of scientific inquiry and collaboration to address complex environmental challenges and promote sustainability.

Skills

- Analytical Chemistry
- Analytical Assays
- Finished Products Analysis
- Organic Compound Purification
- Chemical and Molecular Analysis
- Ion Chromatography
- Data Analysis
- Process Improvement
- Documentation and Recordkeeping
- Method Validation
- Calibration Skills
- Gas Chromatography-Mass Spectrometry (GC-MS)
- Analytical Instrument Maintenance
- In-Process Analysis
- HPLC
- FTIR
- pH
- Viscosity
- Kinematic Viscosity
- Particle Size Analysis
- Microscopy
- Spectrometry
- NMR
- Data Review
- Specific Gravity
- Nitrates Testing
- Related Compound Testing
- Free Formaldehyde Testing
- Fast, eager learner
- Innovative
- Positive leader
- Adaptable and flexible
- Computational thinker
- Great communicator
- Teamplayer
- Biased for action
- Agile and strong

Education

Adams State University - Alamosa, CO

08/2017 - 05/2021

Bachelor of Science: Cellular And Molecular Biology

Bachelor of Science: Biochemistry

Bachelor of Arts: Allied Health Chemistry

References

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