Krista Rugar

Seeking an opportunity to utilize my knowledge in analytical techniques, sample preparation, quality control, instrument troubleshooting, method development, and technical writing.

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SKILLS & ABILITIES

Adept method development skills utilizing high-performance liquid chromatography (HPLC). Proficient with gas chromatography (GC). Skillful with sample preparation for analytical testing. Adroit with troubleshooting analytical methods, instrumentation, and software. Highly efficient in technical writing and document control practices.

Authorized to work in the US for any employer

Work Experience

Associate Scientist

KBI Bio-Boulder, CO
November 2020 to Present

• Executes HPLC/UPLC (RP-HPLC, SEC, IEX, Mixed-Mode), CE, osmolality, and pH testing of biotherapeutic drug substances to monitor the physical and chemical stability if the proteins.

• Analyzes assays per cGMP and cGDP guidelines, with a strong attention to detail.

• Develops HPLC/UPLC methods for testing of biotherapeutic drug substances.

• Drafts analytical test methods, standard operating procedures, qualification protocols and reports, and method development reports.

• Lead the development of polysorbate 20 and 80 in biotherapeutic formulations across three projects; involving base hydrolysis and solid phase extraction sample preparation techniques.

• Subject matter expert on troubleshooting and execution of HPLC and UPLC assays for team members across departments.

LEAD VALIDATION CHEMIST

Compounder's International Analytical Laboratory-Castle Rock, CO
September 2018 to November 2020

• Managed validation studies for UPLC stability indicating assays, for client drug formulations, in compounded pharmaceuticals.

• Reviewed validation study data and reports per cGMP and cGDP guidelines.

• Supervised and assigned projects to validation team members.

• Assisted and guided analysts with development of UPLC methods for stability indicating assay validations.

• Drafted and reviewed analytical test methods for transfer to the analytical department.

VALIDATION CHEMIST

Compounder's International Analytical Laboratory-Castle Rock, CO
November 2017 to August 2018

• Developed UPLC methods to quantify and quantitate active pharmaceutical ingredients present in compounded pharmaceuticals.

• Executed assays for validation of stability indicating assays as per the requirements in USP <1225>.

• Conducted data analysis and drafted validation reports to detail the stability indicating aspects and results of the validation study.

CHEMIST I

NuvOx Pharma, LLC-Tucson, AZ
November 2015 to October 2017

• Executed HPLC, GC, DLS, and pH assays on internally produced drug product to monitor the stability of the active pharmaceutical ingredient and inactive ingredients.

• Maintained stability studies to determine beyond use dating of drug products.

• Assted method development department with modification of storage protocols for stabilization of emulsified drug product formulation.

• Assisted with onboarding new DLS instrumentation and drafted standard operating procedures for acquired instrument.

• Assisted manufacturing department leads with quality and process improvements for manufacturing procedures.

• Drafted and reviewed batch record documents.

LABORATORY TECHNICIAN II

HTG Molecular Diagnostics-Tucson, AZ
May 2014 to October 2015

• Formulated reagent solutions utilizing standard operating procedures and cGDP/cGMP guidelines.

• Conducted quality control analyses (plate-based assays, pH, and conductivity) on reagent formulations, incoming materials, and assembled components.

• Assisted the research and development team with gel electrophoresis separation techniques for development of new biomarker assays.

• Drafted and reviewed standard operating procedures and analytical test methods.

UNDERGRADUATE RESEARCH ASSOCIATE

The University of Arizona-Tucson, AZ
August 2013 to May 2014

• Performed multi-step synthesis of vinyl trithiocarbonate for the preparation of diiron complexes to assist graduate student’s research projects.

• Purified resulting product utilizing recrystallization and column chromatography.

• Characterized products using NMR and IR spectroscopy.

• Drafted research reports summarizing synthesis, purification, and characterization procedures.

UNDERGRADUATE RESEARCH ASSOCIATE

The Georgia Institute of Technology-Atlanta, GA
May 2012 to August 2012

• Synthesized silica encapsulated nanoparticles using a fluorescent dye compound.

• Analyzed fluorescent characteristics utilizing UV-Vis and fluorescence spectroscopy.

• Drafted research report summarizing the synthesis procedure and resulting formation of encapsulated particles.

Education

BACHELOR OF SCIENCE in Chemistry

UNIVERSITY OF ARIZONA
May 2014

Skills

- Chemistry
- HPLC
- GC
- Chromatography
- Lab Technician
- Microsoft Office
- Troubleshooting
- Sample Preparation
- Teamwork
- Team Development
- Gas Chromatography
- Spectroscopy
- Research & Development
- GLP
- Calibration
- Gas Chromatography
- QA/QC
- Research & Development
- Spectroscopy
- Organizational Skills
- Time Management
- Writing Skills
- Manufacturing
- Communication Skills
- Microsoft Excel

- Microsoft Word
- High-Performance Liquid Chromatography
- CGMP

Links

http://www.linkedin.com/in/krista-rugar

Assessments

Analyzing data — Proficient

September 2020

Interpreting and producing graphs, identifying trends, and drawing justifiable conclusions from data
Full results: Proficient