
Alisha Mary M

Analytical Chemist

#006, Mars Enclave
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TECHNICAL SKILLS

- High performance Liquid Chromatography
- Liquid Chromatography-mass spectroscopy
- Gel permeation chromatography
- Gas Chromatography
- Gas chromatography-mass spectroscopy
- Inductively coupled plasma-optical emission spectrometry
- Fourier transform infrared spectroscopy
- UV-Vis spectroscopy
- Secondary Electron Microscopy
- Titration
- Differential Scanning Calorimetry
- Thermogravimetric analysis
- Flashpoint

EDUCATION

Cluny Convent High School, Bengaluru - *Indian Certificate of Secondary Education*

2013

Cluny Convent High School, Bengaluru - *Indian School Certificate*

June 2013- April 2015

Physics, Chemistry, Mathematics and Biology

St. Joseph's University, Bengaluru - *Bachelor of Science*

June 2015- April 2018

Chemistry, Zoology and Biotechnology

St. Joseph's University, Bengaluru - *Master of Science*

June 2018- April 2020

Analytical Chemistry

EXPERIENCE

Momentive Performance Materials, Bengaluru - *Analytical Research Associate*

June 2021 - PRESENT

- Identifying and determining purity of monomers, intermediates and products, inhibitor levels and purity concentrations by HPLC and LCMS.
- Studied the leachables and controlled drug delivery by HPLC and GC.
- Structure determination of molecules using LC-MS and GC-MS.
- VOC and SVOC quantification by GC.
- Molecular weight analysis of polymers by GPC.
- Quantitative elemental analysis of elements after acid digestion by ICP-OES.
- Detection and quantification of specific functional groups and impurities and identification of unknown materials by comparison to spectral libraries by FT-IR spectroscopy.
- Quantitative and qualitative of specific functional groups and impurities by UV-Vis spectroscopy.
- Analyzing the melting, crystallization and glass transition temperatures and enthalpies by DSC.
- Analyzing the decomposition temperatures in oxidizing and inert environments by TGA.
- Imaging and Compositional analysis using SEM and Light Optical Microscopy.
- Qualitative and quantitative analysis by titrations: Non-Aqueous, Aqueous, Redox and KF.
- Periodic calibration and verification of analytical instruments.

Sravathi Advance Process and Technologies, Bengaluru - *Analytical Chemist*

September 2020 - June 2021

- Qualitative and Quantitative Analysis of Organic molecules using HPLC and GC.
- Wet Chemistry method development and KF, Aqueous and non-aqueous titrations
- Analysis of API molecules and formulated products
- HPLC method development
- Calibrated and troubleshot laboratory instruments

Vedantu Innovations Private Limited, Bengaluru - *Academic mentor*

April 2020 - September 2020

- Worked as Chemistry tutor and Academic mentor for grade 12th and NEET aspiring students.

Anthem Biosciences Private Limited, Bengaluru- Intern

January 2020 - March 2020

- SDS-PAGE for protein separation based on molecular weight
- BCA Assay method to estimate the concentration of the protein
- Exposure to HPLC technique

AWARDS

Best Sustain Program 2021 Team award for China Registration of PC Products-Momentive

Best Influencing Program 2021 Team award for Additives for Batteries-Momentive

Best Influencing Program 2022 Team award for Transderma PSA