

SATYAJIT PAL

Quality Control Chemist

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Profile

Dedicated Quality Control Chemist with 4 years of experience in chemical analysis, wet lab chemistry & in quality control department of analyzing raw materials & finished goods using sophisticated instruments like UV-vis Spectroscopy, IR spectroscopy & High-Performance Liquid Chromatography etc.

I am currently looking for a challenging position in an esteemed organization to expand my knowledge and to utilize my research experience, while making a significant contribution to the success of the organization.

Work Experience

❖ **Macdermid Alpha Electronics Solutions India Pvt Ltd**

❖ **Designation: R&D Scientist-I**

Project: Data Cleansing and Harmonization (DCH) **Nov,2022 to Aug,2023**

- Cleansing & Harmonization of data of raw materials used for formulation. Supplier comparison & **Master specification creation**
- Assistant with the development of **global database management**.

Project: Designing & developing new detergent formulations for hot washing process in plastic recycling technology **Aug,2023 to Present**

- Developed new formulations with localized raw materials & reduced 20% cost.
- Expertise in analyzing the quality of detergent washed final flakes.
- Raw material localization and transfer of test methods for PET recycling.
- Qualification of local alternate Raw Materials like defoamers, surfactants against the in-house Master Specification.

❖ **ALEMBIC PHARMACEUTICALS LIMITED** *May,2021 to Oct 2022*

❖ **Designation:** *Officer in Quality Control department*

Job Role:

- Assay, Dissolution, Content Uniformity, Related Substance study of Coated, uncoated, Prolonged released, Sustainable release tablets by UV-spectroscopy and High-performance Liquid Chromatography (HPLC).
- Assay, Related Substance analysis for syrup
- Quantitative analysis of Magnesium and aluminium by **complexometric titration** by using Ethylene Diammine-tetra acetic acid as a chelating agent.
- Assay of Ammonium Chloride and Sodium Citrate in cough syrup.
- Performed wet lab analysis for raw materials & finished good.

Course/Certification

- ‘Quality management System (QMS) Internal Auditor Training Course (ISO 9001:2015)’
- Completed ‘Chemical Safety Training Course’ by ‘3S LIFE SAFE AKADEMIE’

Research Experience

Experience on Synthesis:

July,2015 to July,2018

- Worked on optimization of synthetic routes for synthesis of heterocyclic molecules.
- The rationally designed **D-gluconamide amphiphiles** were synthesized by conjugating hydrophilic D-gluconic acid with different alkyl or aromatic amines as hydrophobic units.
- Cyclic dipeptides (CDPs) are heterocyclic **2,5-diketopiperazines** with exceptional structural rigidity, synthesized in solution phase.
- **D-gluconamide** tethered naphthalimides Pyrene based amphiphilic fluorophores were synthesized.
- Conducted experiments using **NMR spectroscopy, LCMS, HPLC, XRD, UV-Vis spectrometry, Fluorescence spectroscopy** to characterize reaction mixtures and intermediates as well as finished products.
- Knowledge to characterize organic molecules using spectroscopic techniques like, **UV-visible, Fluorescence spectroscopy, NMR, IR spectroscopy, and chromatographic techniques like TLC, LCMS, HPLC.**
- Analyzed data using Excel spreadsheets and **ChemDraw software** to determine reaction yields and product structures.

Publication

Roy, B.; Pal, S.; and Govindaraju T.; Intrinsic Role of Molecular Architectonics in Enhancing the Catalytic Activity of Lead in Glucose Hydrolysis. *ACS Appl. Mater. Interfaces.* 2020, **12, 12, 14057–1406.**

Accomplishments:

- Recipients of **INSPIRE Fellowship** Graduation.
- Recipients of Integrated PhD fellowship at **Jawaharlal Nehru Centre for Advanced Scientific Research**
- Submitted MS Thesis and published my research work in an International Journal.

Education

<u>Education</u>	<u>Year</u>	<u>Percentage</u>
➤ M.S. in Chemical Science, <i>Bio-Organic Chemistry Laboratory,</i> Jawaharlal Nehru Centre for Advanced Scientific Research	2015-2018	73%
➤ B.Sc. in Chemistry, Burdwan Raj College, The University of Burdwan	2011-2014	60%
➤ Higher Secondary	2011	83.6%
➤ Secondary	2009	86%

Professional Skill

- ❖ Strong interpersonal, presentation, and technical writing skills
- ❖ Excellent oral and written communication skills and a desire to work in a collaborative team environment.

Equipment/Instruments Handled:

- *UV-Visible Spectroscopy*
- *Fluorescence Spectroscopy*
- *IR-Spectroscopy*
- *Potentiometric titrator*
- *Karl Fischer instrument*
- *High-Performance Liquid Chromatography (Shimadzu, Lab Solution)*
- *Densitometer*
- *Dissolution*
- *Melt Flow Index*
- *Intrinsic Viscometer*

Declaration

I truly acknowledge that the above furnished particulars are true.

Date – 16/03/2025

Satyajit Pal