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EDUCATION

Sonopant Dandekar Shikshan Mandali

MSc in Analytical Chemistry

Sonopant Dandekar Shikshan Mandali

BSc in chemistry

Palghar, Maharashtra

Post Graduation Date: Aug 2024

Palghar, Maharashtra

Graduation Date: May 2022

COURSE & PROJECT WORK

Lupin Human Welfare Research Foundation

Advanced Diploma in Quality Control and Instrumentation

Boisar, Maharashtra

May 2022 - July 2022

Grade: A

This combined course and internship involved an intensive 140-hour program that provided both theoretical knowledge and practical hands-on experience. The program was designed to impart a comprehensive understanding of the instruments, processes, and safety protocols used in Quality Control laboratories within the pharmaceutical industry.

Key Highlights:

- Sample Preparation and Standardization:** Developed skills in preparing samples for analysis and ensuring their consistency through standardization techniques.
- Preparation of Mobile Phase:** Gained proficiency in preparing mobile phases for chromatographic techniques.
- Purity Determination:** Conducted purity assessments of samples using sophisticated instruments like Gas Chromatography (GC) and High Performance Liquid Chromatography (HPLC).
- Basic Chemical Handling:** Learned the fundamental processes of handling chemicals and instruments safely and effectively.
- Safety and Precautions:** Emphasized laboratory safety by adhering to GLP (Good Laboratory Practices) and understanding precautions required for handling hazardous chemicals.
- GLP & Safety Information:** Acquired detailed knowledge of safety protocols, including GLP, for working with hazardous chemicals.
- Weighing Samples:** Practiced accurate sample weighing techniques, crucial for precise measurements in quality control.
- Calibration and Validation:** Performed calibration and validation of instruments to ensure accurate and reliable results.
- Instrument Handling:** Mastered various methods and parameters for handling and operating sophisticated laboratory instruments.

Project Title: *Synthesis and Characterization of Bimetallic Complex Containing Copper and Iron Metals*

Date: August 5th 2024

Project Overview:

- Synthesized a bimetallic complex using Copper and Iron as metal precursors, employing a suitable ligand under controlled conditions.
- Utilized UV-Vis spectroscopy to confirm the successful formation of the bimetallic complex, identifying characteristic absorption peaks.
- Evaluated the biological activity of the synthesized complex through antimicrobial assays against a range of bacterial and fungal strains.

Technical and Soft Skills

- Technical Skills:** Hands-on experience with sophisticated instruments like Gas Chromatography (GC), High Performance Liquid Chromatography (HPLC), UV-Vis Spectrophotometer, Karl-Fischer Instrument.
- Proficient in calibration and validation of instruments.
- Languages:** Proficient in English, Hindi, and Marathi with strong written and oral communication skills.