


ISBN: 978-93-93980-67-0
e-ISBN: 978-93-93980-66-3
Pages: 94
2023
 Printed Copy
Hardbound ₹ 995/-

INSTRUMENTAL METHODS OF ANALYSIS LAB MANUAL

About the Book

Instrumental methods of analysis plays a wide role in the analysis of various types of pharmaceuticals in different sample matrices. With increase in the demand for quality pharmaceuticals in global market, the qualitative and quantitative methods of analysis ensures the identity and purity of pharmaceuticals is of highest degree thus increasing the acceptance of medicines in the community. This lab manual on Instrumental methods of analysis covers such experimental methodologies which are routinely employed in various quality control labs of pharmaceutical industries.

Features

- The lab manual has been written keeping in view the requirements of undergraduate, graduate and young teachers for performing the experiments based on spectroscopy and chromatography with simple, reproducible and economical procedures.
- The experiments covered in this lab manual are based on the syllabus prescribed by Pharmacy Council of India for B.Pharm, Pharm.D and M.Pharm courses.
- Additional experiments on calibration of common analytical instruments, volumetric glassware and structural elucidation of organic compounds by integrated spectroscopic techniques has been included.

Sreenivasa Charan Archakam | Keerthisikha Palur

(Contents)

- Determination of I_{max} of Paracetamol and its assay by Calibration Curve Method
- Determination of I_{max} of Potassium Permanganate and its assay by Method of Least Squares
- Effect of Solvent on the Absorption Spectrum of Phenol
- Estimation of Blood Glucose by Colorimetry
- Estimation of Sulphanilamide by Colorimetry
- Simultaneous Estimation of Paracetamol & Ibuprofen in Tablet Dosage form
- Assay of Paracetamol Tablets by UV Spectrophotometric A (1%, 1cm) Method
- Determination of Quinine Sulphate by Fluorimetry
- Effect of Quenching on the Fluorescence of Quinine Sulphate
- Estimation of Sodium by Flame Photometry
- Estimation of Potassium by Flame Photometry
- Limit Test for Chlorides by Nephelo Turbidimetry
- Estimation of Sulphates by Nephelo Turbidimetry
- Separation and Identification of Amino Acids by ascending Paper Chromatography
- Separation and Identification of Aminoacids by Thin Layer Chromatography
- Separation of Compounds Using Column Chromatography
- Demonstration of Hplc
- Demonstration of Gc
- Effect of pH on the Absorption Spectrum of Sulphanilamide
- Effect of Substituents on UV Spectrum of A Compound
- Determination of Isobestic Point of An indicator
- Assay of Salicyclic Acid by Colorimetry
- Assay of Riboflavine Tablets by Visible Spectrophotometry
- Assay of Pheniramine Tablets by UV Spectrophotometric A (1%, 1cm) Method
- Demonstration of Ir Spectrophotometry
- Calibration of Volumetric Glassware
- Calibration of pH Meter
- Calibration of UV-Visible Spectrophotometer
- Calibration of Ftir Spectrophotometer
- Structure Elucidation by integrated Spectroscopic Methods

