

# INSTRUMENTAL METHODS OF DRUG ANALYSIS

G VIDYA SAGAR



Instrumental Method of Drug Analysis | G. Vidya Sagar | PharmaMed Press

## INSTRUMENTAL METHODS OF DRUG ANALYSIS

Analysis of Drugs and Pharmaceuticals forms the backbone of research and development in Pharmaceutical Industry and Academia. This book is primarily focused towards fulfilling the requirements of B.Pharm. in Pharmaceutical Analysis, as recommended by the All India Council for Technical Education (AICTE) and adopted by major Universities in the country. This book focuses on various Physico-Chemical and Instrumental techniques and their wider application for large number of drugs.

The book is conveniently divided into several chapters, each chapter dealing with a method of instrumental analysis. The book gives a review of several conventional methods like UV, Visible and Fluorescence Spectroscopy and also deals at length, the newer techniques like HPLC, quality evaluation of Herbs etc. The book is also useful to Analysts, and Quality Control staff of Pharmaceutical Industry.

### Main highlights:

- Topics have been written in easy to understand and simple language with special emphasis on Pharmaceutical applications.

### ABOUT THE AUTHOR

Dr. G. Vidya Sagar, is presently working as Principal of Vengalpet Institute of Pharmacy, Arthana, Mandya-Krishna (Coastal) and Dean, Faculty of Pharmaceutical Sciences, KJ Somaiya Institute University, Bhuj. With a teaching experience of over 20 years, Prof. Vidya Sagar has authored 12 popular textbooks in Pharmaceutical Sciences including Gate Pharmacy, Pharmaceutical Industrial Management and the latest book *Basics of Drug Analysis* published by us, which have gained wide acclaim. He has 150 review articles and 75 research publications to his credit.

Dr. G. Vidya Sagar is a popular figure in Pharmaceutical Parlance. He is an examiner, paper setter and PG & Ph.D. thesis adjudicator for several Indian Universities. He served as Chairman, Board of Studies (Pharmacy) of Acharya Nagarjuna University, Guntur, A.P. He is an editorial board member of several prestigious journals and chaired many scientific sessions of National and International conferences. He has served as a resource person for various UGC, AICTE, and MCI faculty development programmes. His areas of research include Analytical method development of drugs and Pharmacological & Physicochemical screening of medicinally useful plant drugs.

He is associated with many professional bodies like Indian Pharmaceutical Society, IPA, IPIA, ISTE, IPGA, APII and many others.



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Pharmaceutical Analysis

# Methods Of Drug Analysis

**BURT E. NELSON**



## **Methods Of Drug Analysis:**

**Methods of Drug Analysis** Ray H. Liu, LIU R., 1993 Discusses methods problems and instrumentation used for drug analysis of biological specimens It applies specific analytical chemistry procedures to testing for specific drugs of abuse

*Methods of Drug Analysis* James Edward Gearien, Bernard F. Grabowski, 1969 Instrumental Methods of Drug Analysis

G. Vidya Sagar, 2009 HPLC Methods on Drug Analysis Mantu K. Ghosh, 2012-12-06 The dramatic development of chromatographic techniques specially high performance or high pressure liquid chromatography HPLC has made possible the easy analysis of organic compounds including drugs and drug components for last two decades This rapid increase and improvement of analytical methodology with HPLC has enabled researchers and scientists to cope with other scientific and instrumental developments in their fields of work Thousands of impressive and original scientific publications text books and monographs describe the techniques for drug analysis with high performance liquid chromatography However no concise presentation of the general properties of the drugs and their HPLC methodology exists together in the market This work contains the general properties necessary for the analysis of 232 drugs as well as the HPLC methods for many other drugs and drug components It is hoped that it will fill a gap and provide a precise survey of the HPLC methods for drug analysis It is intended as an immediate guide in the laboratory and will be of help to the scientists researchers and technicians in the field of analysis Methods of Drug Analysis James Edward Gearien, Bernard F. Grabowski, 1969

**Handbook of Forensic Drug Analysis** Fred Smith, 2004-12-31 The Handbook of Forensic Drug Analysis is a comprehensive chemical and analytic reference for the forensic analysis of illicit drugs With chapters written by leading researchers in the field the book provides in depth up to date methods and results of forensic drug analyses This Handbook discusses various forms of the drug as well as the origin and nature of samples It explains how to perform various tests the use of best practices and the analysis of results Numerous forensic and chemical analytic techniques are covered including immunoassay gas chromatography and mass spectrometry Topics range from the use of immunoassay technologies for drugs of abuse testing to methods of forensic analysis for cannabis hallucinogens cocaine opioids and amphetamine The book also looks at synthetic methods and law enforcement concerns regarding the manufacture of illicit drugs with an emphasis on clandestine methamphetamine production This Handbook should serve as a widely used reference for forensic scientists toxicologists pharmacologists drug companies and professionals working in toxicology testing labs libraries and poison control centers It may also be used by chemists physicians and those in legal and regulatory professions and students of graduate courses in forensic science Contributed to by leading scientists from around the world The only analysis book dedicated to illicit drugs of abuse Comprehensive coverage of sampling methods and various forms of analysis **Green Analytical Methods and Miniaturized Sample Preparation techniques for Forensic Drug Analysis** Rajeev Jain, Abuzar Kabir, 2024-10-26 Green Analytical Methods and Miniaturized Sample Preparation techniques for Forensic Drug Analysis provides a comprehensive

overview of GAMs in forensic drug analysis including green sample preparation techniques in situ analytical platforms such as DIC and PADs and on site sample preparation The book discusses not only eco friendly GAM s but also methods which provide high sample throughput and cost effective analysis and are therefore of immense use in resource limited laboratories of developing countries This is a comprehensive source of literature for analytical scientists in this developing area of sustainable and affordable analytical methods Provides a comprehensive overview of GAMs in forensic drug analysis including green sample preparation techniques in situ analytical platforms such as DIC and PADs and on site sample preparation Presents scientific data for synthesis and application of green solvents e g DES and ILs and adsorbents e g FPSE membranes Offers method development optimization and validation strategies for GAMs

**Thin Layer Chromatography in Drug Analysis** Lukasz Komsta, Monika Waksmundzka-Hajnos, Joseph Sherma, 2013-12-20 Used routinely in drug control laboratories forensic laboratories and as a research tool thin layer chromatography TLC plays an important role in pharmaceutical drug analyses It requires less complicated or expensive equipment than other techniques and has the ability to be performed under field conditions Filling the need for an up to date

Handbook of Stability Testing in Pharmaceutical Development Kim Huynh-Ba, 2008-11-16 This handbook is the first to cover all aspects of stability testing in pharmaceutical development Written by a group of international experts the book presents a scientific understanding of regulations and balances methodologies and best practices

Applications of Analytical Techniques / Methods in Drug Analysis Habibur Rahman, 2012-08 This book is designed to guide the analytical chemistry students researchers who are working in the area of drug analysis It would also be helpful to quality control laboratories to validate the analytical methods using different validation and statistical parameters This would help in the better understanding about the journey of a drug from discovery to analysis This book also gives an overview on safety efficacy and impurity profiling of drugs

Applications of High Performance Liquid Chromatography S. Pryde, M.T. Gilbert, 1979-01-31

**Stability-indicating HPLC Methods for Drug Analysis** Quanyun A. Xu, Lawrence A. Trissel, 1999 The first compilation of over 500 stability indicating high performance liquid chromatographic HPLC analytical methods that have appeared in the published literature The information is presented as a series of monographs on 250 different drug entities arranged in alphabetical order and summarized in a format composed of 27 elements Each monograph starts with basic information on the drug product followed by one or more summaries of published stability indicating analytical methods This unique reference focuses only on stability indicating HPLC methods and will reduce the time consuming task of finding stability indicating assays

Pharmaceutical Drug Analysis Ashutosh Kar, 2005 About the Book During the past two decades there have been magnificent and significant advances in both analytical instrumentation and computerized data handling devices across the globe In this specific context the remarkable proliferation of windows

*Controlled Drug Analysis* Michael D Cole, Lata Gautam, Agatha Grela, 2025-05-14 Development of new techniques and methods for analysis of controlled substances brings a different way of considering drug

analysis which is articulated for the first time in this new text In addition to a modern treatment of the widely known drugs e g cannabis heroin cocaine amphetamines ring substituted amphetamines and pharmaceuticals which are used as recreational drugs e g barbiturates benzodiazepines the book considers prominent drug classes that have not yet received systematic treatment in a textbook for example synthetic cannabinoids piperazines cathinones fentanyls Aimed at undergraduate and postgraduate taught programmes the book includes methods for drug analysis and comparison using physical biologically based comparative and numerical techniques It will also serve as a reference point for research students and practising forensic scientists It introduces statistical methods for drug sample comparison and the appropriateness of some of the statistical techniques for drug analysis and examines their use It also considers newly developed analytical methods and significant legislative changes Aimed at academics delivering forensic science courses in particular it could also be used by chemistry biochemistry criminalistics criminology and law and policing students on MSc forensic science courses and postgraduate research candidates

**Introduction to the analysis of drugs and medicines** Burt Everette Nelson,1910

INTRODUCTION TO THE ANALYSIS OF DRUGS AND MEDICINES BURT E. NELSON,1910      **Applications of Solid**

**Phase Microextraction** Janusz Pawliszyn,1999 Solid Phase Microextraction SPME has been introduced as a modern alternative to current sample preparation technology and has a wide range of applications Focusing on quantitative aspects of analysis Applications of Solid Phase Microextraction aims to describe these applications In industry practical uses of SPME can be found in environmental food pharmaceutical clinical and forensic applications all of which are described in this book Important scientific applications such as reaction monitoring characterization of coatings and distributions of analytes in natural multiphase systems are also discussed Throughout there are descriptions of new technologies including new coatings and interfaces for analytical instrumentation SPME LC and SPME CE automation and calibration processes Written by internationally recognised experts edited by the scientist involved in the research since its infancy and encompassing a wide range of applications this book will be ideal for anyone wishing to explore the feasibility of using SPME technology

**Report of the National Commission on Diabetes to the Congress of the United States: Supporting materials of the Commission reports** United States. National Commission on Diabetes,1976      **Methods for Novel Psychoactive**

**Substance Analysis** Marta Concheiro,Karl B. Scheidweiler,2022-10-12 This collection provides detailed information on current advances in analytical methods and strategies employed for monitoring and discovering a wide range of novel psychoactive substances NPS in clinical and forensic laboratories The main classes of NPS in terms of prevalence include synthetic cannabinoids synthetic cathinones synthetic opioids and designer or synthetic benzodiazepines and this book explores selecting the appropriate sample matrix and analytical testing approaches for laboratories faced with NPS drug testing such as in blood urine saliva and hair Written for the Methods in Pharmacology and Toxicology series chapters in this volume feature the kind of detailed implementation advice from the experts that leads to successful results in the lab

Authoritative and practical Methods for Novel Psychoactive Substance Analysis serves as an ideal guide for forensic and clinical toxicologists pharmacologists and chemists in academic and research settings as well as for private laboratories seeking to increase our ability to test for these substances

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