

Applications of LC-MS in Toxicology

Edited by Aldo Poletti



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Applications Of Lc Ms In Toxicology

Steven B. Karch, Bruce A. Goldberger



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Applications of LC-MS in Toxicology Aldo Polettini, 2006 Analytical toxicologists are involved in the analysis of drugs and poisons in biological samples in different environments Many scientists in the field of analytical toxicology have adopted LC MS in their daily work and this is illustrated by the increasing numbers of research papers published and presented at relevant conferences

Advances in Forensic Applications of Mass Spectrometry Jehuda Yinon, 2003-12-29 Recent developments in analytical instrumentation have had an enormous influence on forensic analysis The mass spectrometer is now an integral part of every forensic laboratory resulting in greater analytical accuracy more reliable identification and lower detection limits As the instrumental method of choice among forensic analysts the mass

Clinical Applications of Mass Spectrometry in Biomolecular Analysis Uttam Garg, 2022-09-20 This updated volume provides stepwise instructions for the analysis of numerous clinically important analytes by mass spectrometry Mass spectrometry offers clinical laboratory scientists a number of advantages including increased sensitivity and specificity multiple component analysis and limited need for specialized reagents These techniques are essential in laboratory fields including endocrinology biochemical genetics drug analysis proteomics and pathogen identification Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and practical Clinical Applications of Mass Spectrometry in Biomolecular Analysis Methods and Protocols Second Edition is an ideal resource for clinical laboratory scientists who are already using or thinking of bringing mass spectrometry to their laboratories

Encyclopedia of Forensic Sciences, 2012-12-28 Forensic science includes all aspects of investigating a crime including chemistry biology and physics and also incorporates countless other specialties Today the service offered under the guise of forensic science includes specialties from virtually all aspects of modern science medicine engineering mathematics and technology The Encyclopedia of Forensic Sciences Second Edition Four Volume Set is a reference source that will inform both the crime scene worker and the laboratory worker of each other s protocols procedures and limitations Written by leading scientists in each area every article is peer reviewed to establish clarity accuracy and comprehensiveness As reflected in the specialties of its Editorial Board the contents covers the core theories methods and techniques employed by forensic scientists and applications of these that are used in forensic analysis This 4 volume set represents a 30% growth in articles from the first edition with a particular increase in coverage of DNA and digital forensics Includes an international collection of contributors The second edition features a new 21 member editorial board half of which are internationally based Includes over 300 articles approximately 10pp on average Each article features a suggested readings which point readers to additional sources for more information b a list of related Web sites c a 5 10 word glossary and definition paragraph and d cross references to related articles in the encyclopedia Available online via

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Applications of LC-MS/MS in Forensic Toxicology for the Analysis of Drugs and Their Metabolites Ahmed Ibrahim Al-Asmari,2009 This thesis studied opioids and alcohol in forensic toxicology by LC MS MS which avoids time consuming procedures involving hydrolysis extraction and derivatisation Initially a method was validated for quantification of opioids and unhydrolysed polar metabolites in autopsy specimens and was used to develop procedures for interpretation of forensic toxicology results The LC MS MS method developed has been validated for the simultaneous determination of 24 opioids in human whole blood including for the first time in human whole blood naloxone 3 glucuronide Although a large number of drugs of interest were included in the method acceptance criteria for linearity precision and recovery for all analytes were achieved The method was found useful for differentiating between users of heroin and other opioids such as codeine and morphine and for determining the survival time in deaths attributed to heroin use Subsequently the efficiencies of hydrolytic and non hydrolytic methods for opioid analysis were compared for buprenorphine BUP analysis The aims were to develop and validate a method for the direct determination DM of buprenorphine BUP norbuprenorphine NBUP buprenorphine 3 glucuronide B3G and norbuprenorphine 3 glucuronide NBUP3G This method was compared with an in house enzymatic hydrolysis method HM for the determination of total buprenorphine TBUP and norbuprenorphine TNBUP using real positive BUP urine case samples A comparison between the drug and metabolite concentrations obtained by direct and hydrolysis methods was reported for the first time in this work LC MS analysis was also applied to paediatric plasma specimens obtained from a clinical pharmacokinetic study of intravenous and intranasal administration of diamorphine This work was aimed at obtaining pharmacokinetic data for diamorphine and its metabolites in children following intravenous IVDIM and intranasal INDIM

administration in a blind study It was intended that the concentrations of active metabolites would be used to evaluate whether or not IN DIM can deliver rapid and efficient analgesia in children comparable to that obtained with IV DIM The pharmacokinetics of DIM and its metabolites following INDIM and IVDIM administration in children have been compared for the first time in this study which confirmed that INDIM can achieve therapeutic plasma concentrations of active metabolites although these were lower than those obtained with IVDIM and occur at later times after administration In Scotland the number of prescriptions for oxycodone has risen by 430% since prescribing began in 2002 Blood samples from fatalities in the West of Scotland involving oxycodone were analysed using an LC ESI MS MS method developed for the determination of oxycodone and its metabolites in post mortem specimens To the author s knowledge this is the first report of blood and urine concentrations of noroxycodone and oxymorphone in acute oxycodone overdoses Also it is the first LC MS MS application to be reported with oxycodone related fatalities cases in forensic toxicology as most of previous reports used GC or HPLC applications Moreover this work reported for the first time vitreous humour levels of noroxycodone following oxycodone intoxication Ten oxycodone related deaths were identified in the short period of this study in the Strathclyde region of Scotland alone highlighting the importance of including this drug in routine laboratory screening and confirmation procedures Polar alcohol metabolites ethyl glucuronide and ethyl sulfate are biomarkers of ante mortem alcohol consumption and are used to test for post mortem artefactual formation of alcohol An LC MS method for these metabolites using a novel hydrophilic interaction liquid chromatography column was validated and applied to routine forensic casework Ninety urine case samples were divided into three groups depending on the ethanol concentration found in blood and analysed by the developed method group A with post mortem blood ethanol higher than 200 mg 100 mL group B with ethanol concentration in the range 80 to 200 mg 100 mL and group C with ethanol concentration less than 80 mg 100 mL It was concluded that the risk of false positive ethanol results increased in the low ethanol concentration group as several cases tested negative for both biomarkers ETG was detected at low concentrations in some cases for which ETS tested negative suggesting that either ETG may have a longer half life in urine or else ETS is unstable The data was compared with previous studies and confirmed that both ethanol biomarkers should be determined in heavily putrefied cases and when the ethanol level in post mortem blood is low suggesting the production of ethanol after death To the authors knowledge this is the first report of the determination of ETS using an LC ESI ion trap MS MS method and of a HILIC ESI ion trap MS MS method for the simultaneous determination of ETG and ETS in post mortem urine samples

Karch's Drug Abuse Handbook Steven B. Karch, Bruce A. Goldberger, 2022-11-29 Karch s Drug Abuse Handbook Third Edition remains the quintessential compendium addressing the pharmacological medical and legal aspects of drugs and informing the forensic community of the latest scientific advances and emergent practices For this edition Dr Karch has brought on clinical and forensic toxicology expert Dr Bruce Goldberger editor in chief of the Journal of Analytical Toxicology and president of the American Board of Forensic

Toxicology to serve as co editor In addition world renowned scientists and medical professionals have contributed their work and expertise in tackling the latest developments in drug testing drug related medical emergencies and the drug toxicology Topics addressed include genetic testing in drug death investigation pathology toxicogenetics alcohol post mortem toxicology new psychoactive substances the latest legal issues and challenges as well as drugs and drug testing in sports and the ethical legal and practical issues involved Vivid pictures and diagrams throughout illustrate the pathological effects of drugs and the chemical make up and breakdown of abused drugs With unparalleled detail the latest research and the highest level of authoritative medical scientific information The Drug Abuse Handbook Third Edition remains the definitive resource for drug related issues

LC/MS Applications in Drug Development Mike S. Lee, 2002-03-07 Breakthroughs in combinatorial chemistry and molecular biology as well as an overall industry trend toward accelerated development mean the rate of sample generation now far exceeds the rate of sample analysis in the pursuit of producing new and better pharmaceuticals LC MS is an analytical tool that helps the researcher identify the most promising sample early in the selection process effectively creating a shortcut to finding new drugs This book is the first to describe LC MS applications within the context of drug development including the discovery preclinical clinical and manufacturing phases In addition to the thorough technical analysis of this tool LC MS Applications in Drug Development provides perspective on the significant changes in strategies for pharmaceutical analysis A process overview of drug development from an analytical point of view is provided along with essential data required to successfully bring a drug to market The incorporation of LC MS is illustrated from target to product Chapters pertaining to the discovery process itself include Proteomics Glycoprotein Mapping Natural Products Dereplication Lead Identification Screening Open Access LC MS In Vitro Drug Screening Written for both the analytical chemist who uses LC MS applications and the pharmaceutical scientist who works with the drugs they produce LC MS Applications in Drug Development is the premier reference on the subject

Bioanalytical Separations, 2003-09-03 Bioanalytical Separations is volume 4 of the multi volume series Handbook of Analytical Separations providing reviews of analytical separation methods and techniques used for the determination of analytes across a whole range of applications The theme for this volume is bioanalysis in this case specifically meaning the analysis of drugs and their metabolites in biological fluids Discusses new developments in instrumentation and methods of analyzing drugs and their metabolites in biological fluids Provides guidance to the different methods their relative value to the user and the advantages and pitfalls of their use Future trends are identified in terms of the potential impact of new technologies

Forensic Applications of High Performance Liquid Chromatography Shirley Bayne, 2017-07-27 Chromatography has many roles in forensic science ranging from toxicology to environmental analysis In particular high performance liquid chromatography HPLC is a primary method of analysis in many types of laboratories Maintaining a balance between practical solutions and the theoretical considerations involved in HPLC analysis Forensic App

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