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Liquid Chromatography Shimadzu HPLC systems demonstrate high reliability, with outstanding performance, such as ultra-low carryover and exceptional area reproducibility, and superior data quality. In addition, they are carefully designed for broad applicability and easy operation. Liquid Chromatography (81)

Liquid Chromatography : SHIMADZU (Shimadzu Corporation)

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LC LCMS Technical Report : SHIMADZU (Shimadzu Corporation)

Liquid Chromatography (69) HPLC/UHPLC/SFC Systems (3) Preparative HPLC Systems (2) GPC Systems (1) Ion Chromatograph Systems (1) Application Specific LC Systems (14) LC Software (2) LC Components & Accessories (8) LC Columns & Consumables (38)

LC Columns & Consumables : SHIMADZU (Shimadzu Corporation)

SOP for Operation of Shimadzu HPLC (Prominence – i LC – 2030) To lay down a procedure for the operation of HPLC system using Lab Solution software. This is applicable for the operation of HPLC system using Lab Solution software for Shimadzu Prominence – i LC – 2030 HPLC system. It is the responsibility of QC Executive.

SOP for Operation of Shimadzu HPLC (Prominence – i LC – 2030)

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Shimadzu had a vision: to establish a state-of-the-art manufacturing center in the United States. One that would deliver speed and American ingenuity to Shimadzu instruments and provide customers with the very best Shimadzu has to offer. That vision became Shimadzu U.S.A. Manufacturing, Inc., (SUM), which began operation in Canby, Oregon in 1997.

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LC-40D LC-40D XR LC-40B XR LC-40D XS LC-40D X3 LC-40B X3; Pumping method: Parallel-type double plunger (approx. 10 μ L/1 stroke) Allowable maximum pressure

Nexera series - Configuration : SHIMADZU (Shimadzu ...

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High Performance Liquid Chromatography (HPLC ... - Shimadzu

Transfer about 25 mg of Uracil or caffeine to a 100ml volumetric flask, add 70ml of Methanol, sonicate to dissolve and make up the volume with Methanol. Dilute 4 ml of resulting solution to 50ml with mobile phase. Inject the standard preparation five times and record the observed area in Attachment-I.

SOP for Calibration of Shimadzu HPLC (Prominence – i LC ...

Shimadzu has earned the reputation as the most trusted name in LC. Most Trusted Name in LC Shimadzu liquid chromatographs are the most requested front ends for LCMS systems around the world. Shimadzu front ends allow you to get the most from your mass spectrometer, all day, every day.

Knowledge Base - Shimadzu Nexera Series UHPLC - An ...

Shimadzu's New Preparative Purification LC System Provides High Efficiency, Saves Space, and Enables Multi-Sample Processing. Shimadzu Corporation announces the release of its Nexera Prep Series Preparative Purification Liquid Chromatograph (LC). "Preparative work" is a process in which specific substances are separated and purified from samples. This process is essential for extracting target compounds and impurities during drug discovery in the pharmaceutical industry and extracting ...

Shimadzu's New Preparative Purification LC System Provides ...

Or call (860) 691-2213. The Shimadzu LC-2010CHT High Performance Liquid Chromatographs HPLC System is designed to handle high-throughput analysis and automated analysis while still providing assured data reliability and validation. A compact unit, the LC-2010CHT is composed of a degassing unit, low-pressure gradient unit, pump unit, mixer, ultra-fast autosampler, column oven, and a UV-VIS detector with a thermostatted flow cell.

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Mobile phase solutions are used with HPLC methodologies to dissolve and transport constituents, improve constituent separation, and maintain pH as to improve accuracy and precision (Shimadzu, n.d.). Two mobile phase solutions were examined: 0.05% acetic acid solution in methanol (MeOH) and 0.05% formic acid (C₂H₄O₂) in acetonitrile (C₂H₃N).

This volume provides a straightforward approach to isolation and purification problems with a thorough presentation of preparative LC strategy including the interrelationship between the input and output of the instrumentation, while keeping to an application focus. The book stresses the practical aspects of preparative scale separations from TLC isolations through various laboratory scale column separations to very large scale production. It also gives a thorough description of the performance parameters (e.g. throughput, separation quality, etc.) as a function of operational parameters (e.g. particle size, column size, solvent usage, etc.). Experts in the field have contributed a well balanced presentation of separation development strategies from preparative TLC to commercial preparative process with practical examples in a wide variety of application areas such as drugs, proteins, nucleotides, industrial extracts, organic chemicals, enantiomers, polymers, etc.

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This Special Issue is aimed at highlighting the potentialities of membrane and membrane reactor operations in various sectors of chemical engineering, based on application of the process intensification strategy. In all of the contributions, the principles of process intensification were pursued during the adoption of membrane technology, demonstrating how it may lead to the development of redesigned processes that are more compact and efficient while also being more environmental friendly, energy saving, and amenable to integration with other green processes. This Special Issue comprises a number of experimental and theoretical studies dealing with the application of membrane and membrane reactor technology in various scientific fields of chemical engineering, such as membrane distillation for wastewater treatment, hydrogen production from reforming reactions via inorganic membrane and membrane photoassisted reactors, membrane desalination, gas/liquid phase membrane separation of CO₂, and membrane filtration for the recovery of antioxidants from agricultural byproducts, contributing to valorization of the potentialities of membrane operations.

This third edition laboratory manual was written to accompany Food Analysis, Fifth Edition, by the same author. New to this third edition of the laboratory manual are four introductory chapters that complement both the textbook chapters and the laboratory exercises. The 24 laboratory exercises in the manual cover 21 of the 35 chapters in the textbook. Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component or characteristic. Most of the laboratory exercises include the following: background, reading assignment, objective, principle of method, chemicals, reagents, precautions and waste disposal, supplies, equipment, procedure, data and calculations, questions, and references. This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis.

This thesis focuses on the development of efficient and scalable total syntheses of natural products that can be used as preferred scaffolds for anti-infective drug discovery. It describes the total synthesis of two classes of antimicrobial non-ribosomal peptides (NRPs) – teixobactin and the skyllamycins – with subsequent biological evaluation. The first part describes the first total synthesis of teixobactin by means of a solid-phase peptide synthesis-macrolactamisation approach, yielding a synthetic natural product that can combat a number of clinically relevant Gram-positive bacterial pathogens. The second part describes the first total synthesis of skyllamycins A-C, a family of structurally complex cyclic NRPs, which inhibit the growth of the *Pseudomonas aeruginosa* biofilms that are responsible for significant mortality among cystic fibrosis patients.

Food safety is an important global public health and trade matter, with chemical hazards occupying centre stage due to associated acute and chronic health outcomes. There is also an increasing need to address antimicrobial resistance concerns. While food remains a major vehicle for exposure to these hazards, related matrices cannot be ignored. Animal feed for instance may contain drug or pesticide residues as well as mycotoxins that could carry-over to food either as parent compounds or their metabolites of toxicological relevance. Contaminated water is also another medium of potential exposure to food hazards. A concerted effort is required to address the need for a safe food supply and one critical stakeholder is the testing laboratory. While this requires trained and capable analysts as well as reliable instrumentation, analytical methods are a major need. Development and validation – to ensure fitness of purpose – and availability of these methods is a necessity. This manual, consisting of several Standard Operating Procedures (SOPs), presents another opportunity for laboratories to address gaps in analytical methods and/or expand their options. The manual contains techniques for analyzing certain mycotoxins such as aflatoxins, fumonisin and ochratoxin in matrices that include milk, edible vegetable oil and animal feed etc. A range of veterinary drug residues including permitted and prohibited substances in animal matrices including fish, are also addressed. Several pesticide residues in cereals, fruits and vegetables are also covered. A couple of methods for analysis of selected metals are also presented.

A comprehensive yet concise guide to Modern HPLC Written for practitioners by a practitioner, Modern HPLC for Practicing Scientists is a concise text which presents the most important High-Performance Liquid Chromatography (HPLC) fundamentals, applications, and developments. It describes basic theory and terminology for the novice, and reviews relevant concepts, best practices, and modern trends for the experienced practitioner. Moreover, the book serves well as an updated reference guide for busy laboratory analysts and researchers. Topics covered include: HPLC operation Method development Maintenance and troubleshooting Modern trends in HPLC such as quick-turnaround and "greener" methods Regulatory aspects While broad in scope, this book focuses particularly on reversed-phase HPLC, the most common separation mode, and on applications for the pharmaceutical industry, the largest user segment. Accessible to both novice and intermediate HPLC users, information is delivered in a straightforward manner illustrated with an abundance of diagrams, chromatograms, tables, and case studies, and supported with selected key references and Web resources. With intuitive explanations and clear figures, Modern HPLC for Practicing Scientists is an essential resource for practitioners of all levels who need to understand and utilize this versatile analytical technology.

Chromatography has emerged as the most important and versatile analytical method. The book is not only an updated version of Heftmann's classical text, but it covers areas of future importance, such as microfluidics and computer resources. Under his experienced guidance, authorities in each field have contributed their practical experience to an integrated treatment of modern micro analysis. In Part A the theoretical basis of individual separation methods is explained and the technical aspects are illustrated. It includes the theory of gas and liquid chromatography as well as specific chromatographic techniques, such as size-exclusion, planar, ion, and affinity chromatography as well as various electrokinetic separation techniques. Microfluidics are covered for the first time and useful sources of analytical instruments are listed and evaluated. 1. Each chapter written by an authority 2. Thorough treatment of the theoretical basis of separation methods 3. Practical guide for performing analyses

New Synthetic Opioids (NSOs), most of which are illegally produced and sold for recreational use, are posing a serious threat to the health of consumers. Due to the low cost of materials and equipment required for clandestine laboratories production with respect to the production cost of heroin, NSOs are climbing the illegal street and web drug market. Several of these drugs have been involved in a recent rise in acute intoxications and overdose deaths. Since NSOs offer enormous profit potential, and there is strong demand for their use, these drugs are being trafficked by organized crime and present major challenges for medical professionals facing intoxications and fatalities, law enforcement agencies fighting against their diffusion and policymakers trying to restrain the use and abuse of NSOs. This Research Topic aimed to fill the gap on current knowledge on pharmacology and toxicology, health risks for adult and newborns of NSOs covering both basic scientific as well as epidemiological and clinical aspects. 3 reviews, 3 mini-reviews, 1 original article, 2 case reports and 1 opinion are here presented.

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