



Quality control methods for medicinal plant materials



World Health Organization
Geneva

Quality Control Methods For Medicinal Plant Materials

Finn Sandberg, Desmond Corrigan



Quality Control Methods For Medicinal Plant Materials:

Quality Control Methods for Medicinal Plant Materials World Health Organization, 1998 A collection of test procedures for assessing the identity purity and content of medicinal plant materials including determination of pesticide residues arsenic and heavy metals Intended to assist national laboratories engaged in drug quality control the manual responds to the growing use of medicinal plants the special quality problems they pose and the corresponding need for international guidance on reliable methods for quality control Recommended procedures whether involving visual inspection or the use of thin layer chromatography for the qualitative determination of impurities should also prove useful to the pharmaceutical industry and pharmacists working with these materials

Quality Control Methods for Medicinal Plant Materials

,1990 **Natural Remedies** Finn Sandberg, Desmond Corrigan, 2001-10-04 The past two decades have witnessed a phenomenal explosion of interest in the potential uses of plant medicines in healthcare and this has evoked the rebirth of pharmacognosy This volume is unique in that it is the first in English to employ the Anatomical Therapeutic and Chemical ATC classification system developed by the World Health Organization to present information on the therapeutic uses of plants Initially developed in the Swedish edition *Phytopharmaca Therapy* this volume expands the original concept and highlights the aspects of medicinal plants that are crucial for a comprehensive understanding of the role plant drugs can play in healthcare

Fingerprinting Analysis and Quality Control Methods of Herbal Medicines

Ravindra Kumar Pandey, Shiv Shankar Shukla, Amber Vyas, Vishal Jain, Parag Jain, Shailendra Saraf, 2018-07-03 Due to the increase in the consumption of herbal medicine there is a need to know which scientifically based methods are appropriate for assessing the quality of herbal medicines Fingerprinting has emerged as a suitable technique for quality estimation Chemical markers are used for evaluation of herbal medicines Identification and quantification of these chemical markers are crucial for quality control of herbal medicines This book provides updated knowledge on methodology quality assessment toxicity analysis and medicinal values of natural compounds

Medicinal Plants of Ecuador

Pablo Chong Aguirre, Migdalia Miranda Martínez, Patricia Manzano Santana, 2022-11-30 This unique volume draws on the rich culture folklore and environment of medicinal plants in Ecuador which includes the important rain forest region This country has rich plant resources and a large diversity of plants In particular the Biotechnological Research Center of Ecuador CIBE is an important center of plant research and biodiversity For more than 16 years CIBE has been performing scientific research on plants and microorganisms with extensive focus on biodiversity biotechnology bioproducts hytopathology molecular biology tissue culture and technology transfer The Center has state of the art infrastructure and technology and a great strength in human resources

Quality Assurance of Pharmaceuticals

World Health Organization, 2007 Quality assurance of pharmaceutical products is a continuing concern of WHO Despite efforts made around the world to ensure a supply of quality and effective medicines substandard spurious and counterfeit products still compromise health care delivery in many

countries To respond to the global need for adequate quality assurance of pharmaceuticals WHO's Expert Committee on Specifications for Pharmaceutical Preparations has over the years made numerous recommendations to establish standards and guidelines and to promote the effective functioning of national regulatory and control systems and the implementation of internationally agreed standards by trained personnel Many of the relevant documents endorsed by the Committee are reproduced in this volume providing guidance covering all aspects of good manufacturing practices GMP Important texts on inspection are also included Most of the material has been published separately in the Expert Committee's reports This compendium brings it together to make it more accessible and of greater practical value to those working in faculties of pharmacy in medicines regulation and control and in the pharmaceutical industry This is the second updated edition of the compendium and includes texts published in 2005 and 2006 in the WHO Technical Report Series WHO Monographs on Selected Medicinal Plants World Health Organization, 1999 This is the second volume in a series of monographs which are intended to promote information exchange and international harmonised standards for the quality control and use of herbal medicines It contains scientific information on 30 selected plants and each entry includes a pharmacopoeial summary for quality assurance purposes information on its clinical application and sections on contraindications pharmacology safety issues and dosage forms It provides two cumulative indexes with entries in alphabetical order by plant name and according to the plant material of interest

Spices Production to Products B. Sasikumar, S. J. Eapen, 2025-07-17 In a globally connected market ensuring the purity and authenticity of spices is more critical than ever *Spices Production to Products Purity and Authenticity* addresses the challenges of spice adulteration and contamination that threaten food safety public health forex earnings and the integrity of global supply chains Despite advancements in agriculture processing and regulations spices remain vulnerable to fraud and environmental contaminants This comprehensive volume explores various adulterants and contaminants compromising spice quality and safety presenting state of the art detection methods and containment strategies Combining historical insights with cutting edge research it provides a thorough understanding of intentional and unintentional adulteration Key Features In Depth Analysis Chapters on testing black pepper chilli ginger nutmeg saffron and turmeric Advanced Detection Methods Techniques for identifying mycotoxins pesticides and heavy metals Comprehensive Coverage Focus on consumer awareness supply chain management and sustainability Global Standards Insights into regulatory frameworks and harmonization efforts Practical Strategies Tools for detection and mitigation tailored to professionals and researchers This indispensable resource is designed for regulatory agencies food industry professionals researchers policymakers and informed consumers Whether detecting adulterants developing technologies or advocating for higher standards this book equips you to address the complexities of spice purity and authenticity

Drug Discovery & Development Bhushan Patwardhan, 2007 While biotechnological advances genomics and high throughput screenings or combinatorial and asymmetric syntheses are opening new opportunities in drug discovery

the industry is facing serious innovation deficit The total number of new molecules registered per year has dropped in contrast to expected increase Post marketing failures of blockbuster drugs have become major concerns of industries On the other side globally there is a major shift to use of traditional medicine involving complementary and alternative therapies Ethnopharmacology and traditional medicines have contributed in past significantly in the process of natural product drug discovery There are two clear tracks where ethnopharmacology has potential to contribute in future drug research First as a discovery engine to provide new targets leads and second use of quality assured and standardized traditional medicines In this scenario it is important to understand the mechanisms of drug discovery and pharmaceutical development with a focus on herbal drugs and nutraceutical This book provides historical perspective future prospects and significance of ethnopharmacology in drug research It also provides important steps in botanical drug discovery and development including bioprospecting quality control standardization pharmaceuticals stability pharmacokinetics and bioavailability with examples from ethnopharmacology and herbal medicine One of the important feature of this book is to give an excellent insight to Good Laboratory and Good Clinical Practices along with very useful summary steps involved in filing IND or NDA of botanical products The book also gives Regulators perspective of validating claims and how ethnopharmacological or traditional medicines need different approach

Plant Bioactives and Drug Discovery Valdir Cechinel-Filho, 2012-04-11 An in depth exploration of the applications of plant bioactive metabolites in drug research and development Highlighting the complexity and applications of plant bioactive metabolites in organic and medicinal chemistry *Plant Bioactives and Drug Discovery Principles Practice and Perspectives* provides an in depth overview of the ways in which plants can inform drug research and development An edited volume featuring multidisciplinary international contributions from acclaimed scientists researching bioactive natural products the book provides an incisive overview of one of the most important topics in pharmaceutical studies today With coverage of strategic methods of natural compound isolation structural manipulation natural products in clinical trials quality control and more and featuring case studies on medicinal plants the book serves as a definitive guide to the field of plant biodiversity as it relates to medicine In addition chapters on using natural products as drugs that target specific disease areas including neurological disorders inflammation infectious diseases and cancer illustrate the myriad possibilities for therapeutic applications Wide ranging and comprehensive *Plant Bioactives and Drug Discovery* also includes important information on marketing regulations intellectual property rights and academic industry collaboration as they relate to plant based drug research making it an essential resource for advanced students and academic and industry professionals working in biochemical pharmaceutical and related fields

Therapeutic Use of Medicinal Plants and Their Extracts: Volume 1 A.N.M. Alamgir, 2017-09-06 This volume focuses on the importance of therapeutically active compounds of natural origin Natural materials from plants microbes animals marine organisms and minerals are important sources of modern drugs Beginning with two chapters on the development and definition of the interdisciplinary field of pharmacognosy

the volume offers up to date information on natural and biosynthetic sources of drugs classification of crude drugs pharmacognosical botany examples of medical application WHO s guidelines and intellectual property rights for herbal products

Herbal Bioactive-Based Drug Delivery Systems Inderbir Singh Bakshi,Rajni Bala,Reecha Madaan,Rakesh K. Sindhu,2022-03-13 Herbal Bioactive Based Drug Delivery Systems Challenges and Opportunities provides a wide ranging in depth resource for herbal bioactives including detailed discussion of standardization and regulations The book first explores specific drug delivery systems such as gastrointestinal ocular pulmonary transdermal and vaginal and rectal It then discusses novel applications for nano cosmetics nutraceuticals wound healing and cancer treatment Finally there is a section focusing on standardization and regulation which includes an enhancement of properties This book is an essential resource for pharmacologists pharmaceutical scientists material scientists botanists and all those interested in natural products and drug delivery systems developments Explores standardization regulation and enhancement issues in herbal bioactives Discusses novel developments herbal cosmetics and toxicity interaction issues Provides a comprehensive reference on all aspects of herbal bioactives

Development, assessment, improvement, and standardization of methods in herbal drug research Gunawan Indrayanto,Kornkanok Ingkaninan,Abdul Rohman,2022-12-08 *Encyclopedia of Pharmaceutical Technology* James Swarbrick,2013-07-01 Presenting authoritative and engaging articles on all aspects of drug development dosage manufacturing and regulation this Third Edition enables the pharmaceutical specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field A dependable reference tool and constant companion for years to com

Complementary Therapies and the Management of Diabetes and Vascular Disease Trisha Dunning,2007-01-11 This book brings together important information about complementary therapies and how they are used in diabetes care It addresses the benefits and risks of complementary therapies and takes an evidence based approach Complementary Therapies and the Management of Diabetes and Vascular Disease A Matter of Balance provides health professionals with appropriate information about complementary therapies so they can discuss these therapies with their patients and help them make informed decisions about their diabetes care Managing diabetes depends on achieving life balance not just metabolic control This is the first book devoted exclusively to complementary therapies and diabetes and it has several key features It is an informative evidence based text that will help health professionals understand complementary therapies commonly used by people with diabetes their potential benefits possible adverse events and how these could be minimised or prevented It describes clinical practice guidelines for the safe combination of complementary and conventional therapies in diabetes management It suggests appropriate advice to give people with diabetes and vascular disease about complementary therapies Written by experts in the various fields this book makes important reading for all health professionals managing patients with diabetes and associated vascular disease including nurses doctors dietitians and podiatrists

Bioactive Phytochemicals: Drug Discovery to Product Development Javed Ahmad,Javed

Ahamad,2020-10-28 Natural bioactive compounds from medicinal plants are inexplicably diverse in chemical structure and biological properties The unmet therapeutic requirements for various diseases serve as a guide for researchers to study natural compounds These studies are intended to isolate identify the structural characterization and eventually discover the pharmacological activity of natural compounds from their plant sources with the goal of treating specific diseases Bioactive Phytochemicals Drug Discovery to Product Development explores the scope and approaches of drug discovery from natural products Chapters in the book cover information about the cultivation collection and processing of medicinal plants the methods and high throughput techniques for isolation and characterization of bioactive phytochemicals and pharmacological screening for activity formulation and quality control Information about the regulations specified for natural medicinal products in different region of the world is also presented followed by a concluding chapter devoted to the role of natural herbal products for treatment of human diseases such as cancer cardiovascular diseases diabetes obesity inflammation and neurological disorders Each chapter concludes with a general reference section which is a bibliographic guide to more advanced texts The contributing authors for this volume are drawn from a rich blend of experts in various areas of herbal medicine which encompass herbal drug discovery to product development The concise and organized layout along with a broad coverage of phytochemistry and drug discovery makes this book a suitable reference for students of medicinal chemistry researchers and industry professionals interested in herbal product development *Chamomile* Moumita

Das,2014-07-14 In use as a medicinal plant since time immemorial in Europe and the Middle East chamomile is gaining popularity in the Americas Australia and Asia The spectrum of disease conditions in which it is used in traditional medicine systems is quite simply mind boggling There is without a doubt a growing demand for this plant and therefore a grow

Herbs, Spices and Medicinal Plants Mohammad B. Hossain,Nigel P. Brunton,Dilip K. Rai,2020-08-17 The latest research on the health benefits and optimal processing technologies of herbs and spices This book provides a comprehensive overview of the health benefits analytical techniques used and effects of processing upon the physicochemical properties of herbs and spices Presented in three parts it opens with a section on the technological and health benefits of herbs and spices The second part reviews the effect of classical and novel processing techniques on the properties of herbs spices The third section examines extraction techniques and analytical methodologies used for herbs and spices Filled with contributions from experts in academia and industry *Herbs Spices and Medicinal Plants Processing Health Benefits and Safety* offers chapters covering thermal and non thermal processing of herbs and spices recent developments in high quality drying of herbs and spices conventional and novel techniques for extracting bioactive compounds from herbs and spices and approaches to analytical techniques It also examines purification and isolation techniques for enriching bioactive phytochemicals medicinal properties of herbs and spices synergy in whole plant medicine potential applications of polyphenols from herbs and spices in dairy products biotic and abiotic safety concerns and adverse human health effects and regulation of metal contaminants in

terrestrial plant derived food and phytopharmaceuticals Covers the emerging health benefits of herbs and spices including their use as anti diabetics anti inflammatories and anti oxidants Reviews the effect of classical and novel processing techniques on the properties of herbs and spices Features informed perspectives from noted academics and professionals in the industry Part of Wiley s new IFST Advances in Food Science series Herbs Spices and Medicinal Plants is an important book for companies research institutions and universities active in the areas of food processing and the agri food environment It will appeal to food scientists and engineers environmentalists and food regulatory agencies

Pharmacognosy and Phytochemistry Uchenna E. Odoh, Shailendra S. Gurav, Michael O. Chukwuma, 2025-03-18 Key information on plant based chemical and pharmacology research from basics and principles through recent technological advances Pharmacognosy and Phytochemistry provides an overview of the basics of pharmacognosy and phytochemistry from early principles through contemporary advances like molecular pharmacognosy The book covers the classification of crude drugs complementary and alternative medical CAM systems adulteration and evaluation of drugs extraction methods of plant drugs and ethnobotany and ethnopharmacology The book also reviews the historical overview therapeutic application cultural and ecological dimensions of plant based medicines Other key chapters discuss biotechnology and clinical pharmacognosy Written by a group of expert contributors Pharmacognosy and Phytochemistry reviews sample topics including Methodologies for extracting bioactive compounds and techniques to perform qualitative and quantitative phytochemical analysis Therapeutic potential of plant secondary metabolites and the processes of isolation purification and characterization of herbal drugs Biological screening methods and biosynthetic pathways of phytopharmaceuticals pharmaceutical aids nutraceuticals cosmeceuticals pesticides and allergens Comparative phytochemistry chemotaxonomy and the emerging field of marine pharmacognosy Combining traditional knowledge with modern advancements to provide a holistic understanding of two important fields Pharmacognosy and Phytochemistry serves as an excellent resource for students researchers and practitioners

Potent Anticancer Medicinal Plants Deepu Pandita, Anu Pandita, 2023-11-10 Herbal medicines play a critical role in the prevention and treatment of cancer disorders which are a foremost cause of human disease and death worldwide This new volume provides a wealth of valuable information on the most vital plant genera and species that have potent anticancer activities namely *Garcinia indica* *Centella asiatica* Linn *Nigella sativa* *Ocimum sanctum* *Boswellia serrata* Roxb *Catharanthus roseus* *Withania somnifera* Linn *Dunal Camptotheca acuminata* Decne *Taxus baccata* L *Panax ginseng* *Tinospora cordifolia* Wild Miers *Taxus brevifolia* and *Glycyrrhiza glabra* These anticancer medicinal plants are bestowed with a novel and essential array of chemotherapeutic complexes biologically active molecules and secondary metabolites such as taxol vinblastine vincristine camptothecin topotecan etc with promising properties to cure cancer in humans These plants show a vast potential for new drug discovery in the era of modern medicine to fight against cancer Key features of the book Provides knowledge of secondary metabolite profiling active ingredients modes of action and

pharmacological outcomes of various anticancer plants Discusses the potential of important anticancer plants at the global level Offers information to promote the discovery of new drugs from anticancer plants This book will be valuable to oncologists cancer researchers biotechnologists medicinal chemists pharmacists pharmacologists phytochemists members of biomedical and pharmaceutical sciences working in the areas of cancer treatment and upper level students and residents in pharmacy and medicine

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