The regional animal feed action plan was formulated through a consultative and participatory process building on experiences and lessons learnt by wide spectrum of key stakeholders in public and private sectors, notably, policy makers, traders, pastoralist and farmers' organizations, civil society, NGOs, and the development partners. It builds on the earlier consultative experience sharing workshop on feed by USAID, ILRI, IGAD and FAO in the region. The plan provides broad opportunities for partnerships with producers, governments, and private sector, development and humanitarian organizations at the national and regional levels. It provides a guided approach to collectively tackle the problems of animal feed and pave the way for sustainable production of quality animals and products while improving competitiveness, profitability and ensuring sustainable feed resource management for the entire Eastern African region. The aim of the action plan is to provide guidelines to communities, countries, private sector and livestock stakeholders to optimally utilize the available feed resources in East Africa to increase the supply as well as improve the quality of animals, products and by-products and to maximize the economic and social benefits of the livestock sector. This second edition laboratory manual was written to accompany Food Analysis, Fourth Edition, ISBN 978-1-4419-1477-4, by the same author. The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook. Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic. Most of the laboratory exercises include the following: introduction, 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.
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Mycotoxins - toxic secondary metabolites produced by mycotoxigenic fungi - pose a significant risk to the food chain. Indeed, they may be the most hazardous of all food contaminants in terms of chronic toxicity and legislative limits on their levels in food and feed continue to be developed worldwide. Rapid and reliable methods for the determination of both mycotoxicogenic fungi and mycotoxins in food and feed are therefore essential. This book reviews current and emerging methods in this area. Part one focuses on the essentials of mycotoxin determination, covering sampling, sample preparation and clean-up and key determination techniques, such as chromatographic separation, liquid chromatography-mass spectrometry and immunochemical methods. Part two then goes on to describe quality assurance, official methods and performance criteria for determining mycotoxins in food and feed. Topics covered include laboratory accreditation, method validation and measurement uncertainty. The development and analysis of biomarkers for mycotoxins are discussed in part three. Individual chapters focus on detecting exposure in humans and animals. Part four is concerned with the processes involved in determining mycotoxigenic fungi in food and feed. It also describes the identification of genes and gene clusters involved in mycotoxin synthesis, as well as DNA barcoding of toxigenic fungi. Finally, part five explores some of the emerging methods for mycotoxin analysis, ranging from bio-sensing to spectroscopic techniques. With its distinguished editor and international team of contributors, Determining mycotoxins and mycotoxigenic fungi in food and feed is a standard reference for all those concerned with reducing mycotoxin contamination in the food chain. Focusing on the essentials of mycotoxin determination, covering sampling, sample preparation, clean-up and key determination techniques Documents quality assurance and official methods and performance criteria for determining mycotoxins in food and feed Explores the processes of determining mycotoxigenic fungi in food and feed including the identification of genes and gene clusters The goal of this book is to present an overview of applications and ideas toward sample preparation methods and techniques used in analysis of foods and beverages. This text is a compilation of selected research articles and reviews dealing with current efforts in the application of various methods and techniques of sample preparation to analysis of a variety of foods and beverages. The chapters in this book are divided into two broad sections. Section 1 deals with some ideas for methods and techniques that are applicable to problems that impact the analysis of foods and beverages and the food and beverage industries overall. Section 2 provides applications of sample...
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This guidance document helps decision-makers gain a basic knowledge of the farmer fields schools approach, learn about its contribution to the livelihoods of livestock-dependent communities and recognize the conditions required for the successful implementation of this approach. Every sector of the livestock industry, the associated services and the wellbeing of both animals and humans are influenced by animal feeding. The availability of accurate, reliable and reproducible analytical data is imperative for proper feed formulation. Only reliable analysis can lead to the generation of sound scientific data. This document gives a comprehensive account of good laboratory practices, quality assurance procedures and examples of standard operating procedures as used in individual specialist laboratories. The adoption of these practices and procedures will assist laboratories in acquiring the recognition of competence required for certification or accreditation and will also enhance the quality of the data reported by feed analysis laboratories. In addition, ensuring good laboratory practices presented in the

FAO Animal Production and Health Papers

Dream eschews many of the characteristics of Zola's other novels of the Rougon-Macquart cycle—such as a pronounced polemical agenda or a grimy subject matter—offering instead a timeless, lyrical tale of love and innocence. FAO Animal Production and Health Papers This guidance document helps decision-makers gain a basic knowledge of the farmer fields schools approach, learn about its contribution to the livelihoods of livestock-dependent communities and recognize the conditions required for the successful implementation of this approach. Every sector of the livestock industry, the associated services and the wellbeing of both animals and humans are influenced by animal feeding. The availability of accurate, reliable and reproducible analytical data is imperative for proper feed formulation. Only reliable analysis can lead to the generation of sound scientific data. This document gives a comprehensive account of good laboratory practices, quality assurance procedures and examples of standard operating procedures as used in individual specialist laboratories. The adoption of these practices and procedures will assist laboratories in acquiring the recognition of competence required for certification or accreditation and will also enhance the quality of the data reported by feed analysis laboratories. In addition, ensuring good laboratory practices presented in the

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The document will enhance the safety of the laboratory workers. The document will be useful for laboratory analysts, laboratory managers, research students and teachers and it is hoped that it will enable workers in animal industry, including the aquaculture industry, to appreciate the importance of proven reliable data and the associated quality assurance approaches. An additional effect of implementing and adopting these approaches will be strengthening of the research and education capabilities of students graduating from R&D institutions and promotion of a better trading environment between developing and developed economies. This will have long-term benefits and will promote investment in both feed industries and R&D institutions.

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