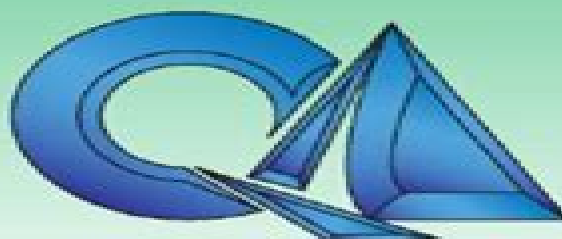


LABORATORY QUALITY MANUAL

Third Edition

Implemented and Effective: October 2009



Note:

The CFSAN Laboratory Quality Manual contains basic quality requirements. The Quality Management System is in the process of being implemented; therefore, some procedures are in draft form.

As implementation takes place, more supporting documents may be added.



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FOOD AND DRUG ADMINISTRATION
CENTER FOR FOOD SAFETY AND APPLIED NUTRITION
College Park, Maryland 20740

Food Testing Laboratories Quality Manual

Donald C. Singer



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is to assure that a food control laboratory produces high quality analytical results using analytical methodology which has been shown to be reliable and reproducible for pesticide residue analyses

A Laboratory Quality Handbook of Best Practices Donald C. Singer, 2001-09-25 Based on the work of a collection of experts from the laboratory science and quality assurance fields A Laboratory Quality Handbook of Best Practices and Relevant Regulations provides all of the information needed to run a successful laboratory that is in compliance with all regulations From sample tracking to accurate documentation training to methods validation maintenance to calibration and out of spec responses to preparation for audits a combination of people instrumentation and documentation must work in sync for high quality results This handbook provides information that will help a laboratory achieve high quality results and compliance Contents Quality Assurance in the Laboratory History of Regulation Training in the Laboratory Laboratory Documentation and Data Sample Control and LIM Systems Methods Validation

Encyclopedia of Food Microbiology Carl A. Batt, 2014-04-02 Written by the world's leading scientists and spanning over 400 articles in three volumes the Encyclopedia of Food Microbiology Second Edition is a complete highly structured guide to current knowledge in the field Fully revised and updated this encyclopedia reflects the key advances in the field since the first edition was published in 1999 The articles in this key work heavily illustrated and fully revised since the first edition in 1999 highlight advances in areas such as genomics and food safety to bring users up to date on microorganisms in foods Topics such as DNA sequencing and E coli are particularly well covered With lists of further reading to help users explore topics in depth this resource will enrich scientists at every level in academia and industry providing fundamental information as well as explaining state of the art scientific discoveries This book is designed to allow disparate approaches from farmers to processors to food handlers and consumers and interests to access accurate and objective information about the microbiology of foods Microbiology impacts the safe presentation of food From harvest and storage to determination of shelf life to presentation and consumption This work highlights the risks of microbial contamination and is an invaluable go to guide for anyone working in Food Health and Safety Has a two fold industry appeal 1 those developing new functional food products and 2 to all corporations concerned about the potential hazards of microbes in their food products

Pesticide Analytical Manual United States. Food and Drug Administration, 1994

Agriculture, Rural Development, and Related Agencies Appropriations United States. Congress. Senate. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, and Related Agencies, 2003

Practical Food Safety Rajeev Bhat, Vicente M. Gómez-López, 2014-06-23 The past few years have witnessed an upsurge in incidences relating to food safety issues which are all attributed to different factors Today with the increase in knowledge and available databases on food safety issues the world is witnessing tremendous efforts towards the development of new economical and environmentally friendly techniques for maintaining the quality of perishable foods and agro based commodities The intensification of food safety concerns reflects a major global awareness of foods in world trade Several recommendations have been put forward by

various world governing bodies and committees to solve food safety issues which are all mainly targeted at benefiting consumers. In addition, economic losses and instability to a particular nation or region caused by food safety issues can be huge. Various non-dependent risk factors can be involved with regard to food safety in a wide range of food commodities such as fresh fruits, vegetables, seafood, poultry, meat, and meat products. Additionally, food safety issues involve a wide array of issues including processed foods, packaging, post-harvest preservation, microbial growth, and spoilage, food poisoning, handling at the manufacturing units, food additives, presence of banned chemicals and drugs, and more. Rapid change in climatic conditions is also playing a pivotal role with regard to food safety issues and increasing the anxiety about our ability to feed the world safely. *Practical Food Safety: Contemporary Issues and Future Directions* takes a multi-faceted approach to the subject of food safety, covering various aspects ranging from microbiological to chemical issues and from basic knowledge to future perspectives. This is a book exclusively designed to simultaneously encourage consideration of the present knowledge and future possibilities of food safety. This book also covers the classic topics required for all books on food safety and encompasses the most recent updates in the field. Leading researchers have addressed new issues and have put forth novel research findings that will affect the world in the future and suggesting how these should be faced. This book will be useful for researchers engaged in the field of food science and food safety, food industry personnel engaged in safety aspects, and governmental and non-governmental agencies involved in establishing guidelines towards establishing safety measures for food and agricultural commodities. *Handbook of Food Analysis* Leo M.L. Nollet, 2004-06-01 Thoroughly updated to accommodate recent research and state of the art technologies impacting the field. Volume 2: Residues and Other Food Component Analysis. This celebrated 3-volume reference compiles modern methods for the detection of residues in foods from pesticides, herbicides, antibacterials, food packaging, and other sources. Volume 2 ev *Cumulated Index Medicus*, 1993

Handbook of Quality Assurance in Laboratory Medicine Shubhangi Tambweker, 2009 ***Quality Labs for Small Brewers*** Merritt Waldron, 2020-08-03 Quality assurance and quality control (QA/QC) is both a system and a state of mind. In *Quality Labs for Small Brewers*, author Merritt Waldron walks you step by step through the process of establishing and writing a quality program for your brewery. Your quality policy should align with your company values and inculcate a quality first culture throughout your brewery. Building an effective quality program will empower staff to directly influence the consistent production of safe quality beer from grain to glass. A good quality program has many moving parts, but it is underpinned by good manufacturing practice (GMP) and food safety requirements. GMP covers every aspect of a brewery's operation, not just how personnel comport themselves but how goods are handled and stored, how beer is held in the warehouse, and how equipment, plant, and the grounds are maintained. Learn how to set standards and critical control points and how to effectively monitor your process so that any deviation is quickly addressed. Discover how policies, procedures, and specifications can help ensure quality throughout every process. Involve your staff in establishing standard operating

procedures corrective actions and improvements Learn how to effectively delegate responsibility and also ensure that management is armed with the information they need to ultimately make what may be some tough decisions If the worst happens understand that being able to make a tough call and having a robust recall procedure in place means you can move quickly to rectify matters which helps your brewery retain the confidence of your customers and distributors Brewers will see results through the application of GMP and food safety prerequisite programs Your quality manual laying out standard operating procedures product specifications and corrective action plans will give your staff the confidence to implement your quality program With these programs in place the author then takes you through each area of your brewery operation and breaks down how key parameters are measured and analyzed at critical control points Sampling plans are outlined for monitoring density temperature pH yeast viability and growth alcohol carbonation dissolved oxygen titratable acidity fill height and packaging integrity Explore setting up an effective sensory panel even a small one that will help ensure each beer remains true to brand Waldron outlines building your brewery laboratory and looks at how to implement an in house microbiology program Throughout this the focus is on scaling your efforts to the size of your operation and always being ready to expand your quality program as your brewery grows The author makes it clear that no brewery is too small to implement QA QC and discusses pragmatic solutions to building out your capabilities Beyond taking meaningful accurate measurements the author also explores how to analyze data Learn some basics of statistics and data organization and how to apply these techniques to continuously monitor processes and spot when corrective action is needed These routines will help pinpoint any risks or areas of improvement and ensure that only quality beer reaches the customer time after time

Swainson's Handbook of Technical and Quality Management for the Food Manufacturing Sector M Swainson, 2018-11-15
This book is focused on the expansive and highly demanding subject of Food Industry Technical Defining Technical and Quality Standards The Food Safety and Quality Management System Raw Materials and Packaging Supplier Control Site Standards Product Control and HACCP Considerations Operations and Process Control Personnel Control Audits Non Conformance Recall Managing the Technical Department In the second part of the book Guest Authors share their expertise on a range of specialist topics providing significant breadth and depth to the content which includes Review of Third party audit schemes Insights into supplying supermarkets with regard to good technical and quality management practices Enforcement authority perspectives on the food manufacturing sector Also covered are the specific sector challenges of food quality and safety assurance in Fruit and vegetables Herbs and spices Cereals Baked products Canning and Cook Chill Ready Meals Soups and Sauces Compiled expertise of food sector specialists with extensive industrial experience Edited by an industry and academic expert with over 25 years experience of technical and quality management in the food sector Contains Technical and Quality Management information that is relevant to a wide range of sectors in the food industry Also examines Technical and Quality Management practice in specific food applications and reviews relevant compliance standards

Quality Assurance in Analytical Chemistry Werner Funk, Vera Dammann, Gerhild Donnevert, 2007-09-24 This best selling title both in German and English is now enhanced by a new chapter on the important topical subject of measurement uncertainty plus a CD ROM with interactive examples in the form of Excel spreadsheets These allow readers to gain an even better comprehension of the statistical procedures for quality assurance while also incorporating their own data Following an introduction the text goes on to elucidate the 4 phase model of analytical quality assurance establishing a new analytical process preparative quality assurance routine quality assurance and external analytical quality assurance Besides updating the relevant references the authors took great care to incorporate the latest international standards in the field

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