

Detection of *Salmonella* in Fresh Cheese, Poultry Products, and Dried Egg Products by the ISO 6579 *Salmonella* Culture Procedure and the AOAC Official Method: Collaborative Study

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Three food types were analyzed for the presence of *Salmonella* by the AOAC culture method and by the International Organization for Standardization (ISO 6579:2002) culture method. Paired test portions of each food type were simultaneously analyzed by both methods. A total of 21 laboratories representing federal government agencies and private industry, in the United States and Europe, participated in this interlaboratory study. Foods were artificially contaminated with *Salmonella* and competing microflora if naturally contaminated sources were not available. No statistical differences ($p < 0.05$) were observed between the AOAC and ISO culture methods for fresh cheese and dried egg products. A statistically significant difference was observed for one of the 2 lots of poultry from the first trial. The poultry meat used in this run was radiation sterilized, artificially contaminated with *Salmonella* and competitive flora, and then

lyophilized. A second trial was conducted with 2 separate lots of raw ground chicken that were naturally contaminated. The results from the second trial showed no statistical difference between the 2 culture methods. A third trial involving 4 laboratories was conducted on 2 separate lots of naturally contaminated raw poultry. Again, no statistically significant differences occurred. It is recommended that ISO 6579:2002 culture method for *Salmonella* be adopted Official First Action for the analysis of fresh cheese, fresh chilled and frozen poultry, and dried egg products.

Over several decades, standardized methods for detection of *Salmonella* in food and food ingredients have been independently developed in both the United States and Europe. Although the basic procedures are similar, differences exist in the specified media and incubation conditions. The rapidly increasing development of international commerce and the critical need for worldwide cooperation and exchange of data, particularly during the occurrence of a food contamination outbreak, necessitates harmonized testing standards worldwide for the detection of *Salmonella*.

A multilaboratory international collaborative validation study was conducted to demonstrate the equivalence of the

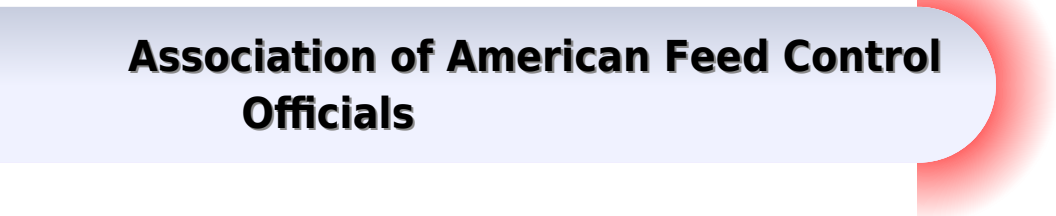
Submitted for publication December 2002.

The recommendation was approved by the Methods Committee on Microbiology and Extraneous Materials as First Action. See "Official Methods Program Actions," (2003) *Inside Laboratory Management*, March/April issue.

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Chemometrics in Chromatography Łukasz Komsta,Yvan Vander Heyden,Joseph Sherma,2018-02-02 Chemometrics uses advanced mathematical and statistical algorithms to provide maximum chemical information by analyzing chemical data and obtain knowledge of chemical systems Chemometrics significantly extends the possibilities of chromatography and with the technological advances of the personal computer and continuous development of open source software many laboratories are interested in incorporating chemometrics into their chromatographic methods This book is an up to date reference that presents the most important information about each area of chemometrics used in chromatography demonstrating its effective use when applied to a chromatographic separation Official Methods of Analysis of AOAC International ,2005

Journal of AOAC International ,1999 *Journal of the Association of Official Analytical Chemists* Association of Official Analytical Chemists,1991 Improving Import Food Safety Wayne Ellefson,Lorna Zach,Darryl Sullivan,2012-10-22 Food safety has been a global concern for many years While global sourcing of foods and ingredients provides great opportunity for variety and diversity of cultural products there are significant risks Programs that regulate food safety and quality in countries around the world vary in their scope and effectiveness with many being underfunded Rapidly developing countries may lack the expertise laboratory resources for testing and established inspection programs to adequately promote the safety of foods Rather these countries may be more focused on providing enough food for their citizens Lack of documentation or traceability in the exporting country can further exacerbate the situation Of course safety problems in food imported from more developed countries also occur and the source of food borne disease outbreaks are found regularly within the United States Improving Import Food Safety gathers together vital information on the food safety programs of national governments the food industry and the testing industry Chapters have been contributed by authors from the United States Latin America Europe and Asia Readers will learn about a variety of regulatory approaches to food safety at the federal and state levels in the United States as well as in selected countries and within the food industry itself They will also gain insights into the nature and source of safety problems in addition to approaches to food safety around the world The book is divided into three sections Highlighting Key Issues authors illustrate the millions of permutations for the origin of ingredients discussing the difficulty if policing imports providing a unique perspective on the economic situation in China and insight into development of support for small farm producers in Mexico Legal and Regulatory Issues Structures in the USA and Abroad describes the legal and regulatory system in the European Union the United States and China plus a chapter addressing global approaches to fraud Potential Strategies to Improve Import Safety presents strategies to deal with what are ultimately global issues but on multiple levels Perspectives are provided by authors from Industry and industry trade association academia and a recently semi retired global ambassador or food safety Readers will find this book noteworthy because of the diverse topics and perspectives offered on the challenges of keeping food safe in a global economy Authors come from a variety of backgrounds

and each has provided a unique perspective on this critical topic The volume is aimed at importers and exporters of food and ingredients food microbiologists food safety and QC QA personnel regulatory and legal personnel in food manufacturing companies food policy makers and regulatory officials and facility and graduate students in food science **Escherichia Coli O157:H7 and Other Verotoxigenic E. Coli in Foods** Ewen Cameron David Todd, Janet M. MacKenzie, Canada. Food Directorate, Canadian Meat Council, 1993 Official Methods of Analysis of the Association of Official Analytical Chemists Association of Official Analytical Chemists, 1980 Zbirka instrumentalnih in klasi nih analitskih metod za ivila predmete splo ne rabe pesticide droge *Standardization Within Analytical Chemistry* P. Kivalo, Pekka Kivalo, 1989 Seafood and Freshwater Toxins Luis M. Botana, 2008-01-28 The occurrence of marine and freshwater toxins is a rapidly evolving problem due to ever changing circumstances Expanding international commerce is forcing cargo ships into virgin territory deforestation and pollution violate the natural ecological balance and a changing climate holds unknown potential to alter current factors and trigger toxic blooms in new forms at new rates and in new places Fortunately with notable advances in analysis technology the body of knowledge in the field is equally dynamic In just six years since the first edition toxins that warranted only line listings including pfiestra gambierol and polycavernoside are now worthy of entire chapters requiring a new edition to encompass the expanding scope of the field Emphasizes Human Response to New Toxins Gathering contributions from international experts Seafood and Freshwater Toxins Pharmacology Physiology and Detection Second Edition provides an overview of the current state of knowledge from several perspectives Incorporating toxicology chemistry ecology and economics the book covers the biological aspects of the bloom and the effects and actions of each toxin with emphasis on human response This edition includes more information on detection and analysis toxicological information on previously little known toxins and food safety issues Incorporating Pharmacological Legal and Economic Aspects this book Begins with general information on risk assessment and analytical techniques Cover several categories of toxins by function and biomechanism Considers potential pharmacological applications and the use of toxins as precursors to therapeutic drugs Highlights the legal and economic perspectives of toxic incidence in industrial activity and international regulation and monitoring programs Describes new toxins by their individual chemical structure ecobiology metabolism detection methods determination pharmacology and toxicology **5th International Symposium on Supercritical Fluid Chromatography and Extraction** ,1994 **Special Report - New York State Agricultural Experiment Station, Geneva** New York State Agricultural Experiment Station, 1970 **Official and Tentative Methods of Analysis** Association of Official Analytical Chemists, 1984 **Official Publication - Association of American Feed Control Officials** Association of American Feed Control Officials, 2005 **Rapid Microbiological Methods** New York State Agricultural Experiment Station, 1970 **International IDF Standard** ,1986 *Selected Water Resources Abstracts* ,1973 **Pesticide Progress** ,1964 16th National Nutrient Databank Conference Proceedings ,1991 **IDRC.** ,1979 **Standardization of Analytical**

Methodology for Feeds International Development Research Centre (Canada), International Union of Nutritional Sciences, 1980

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