

## 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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# Aoac Guidelines For Collaborative Study

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**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 of 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

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*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

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**Standardization Within Analytical Chemistry** P. Kivalo, Pekka Kivalo, 1989

*Seafood and Freshwater Toxins* Luis M. Botana, 2008-01-28

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*5th International Symposium on Supercritical Fluid Chromatography and Extraction* ,1994

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

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