

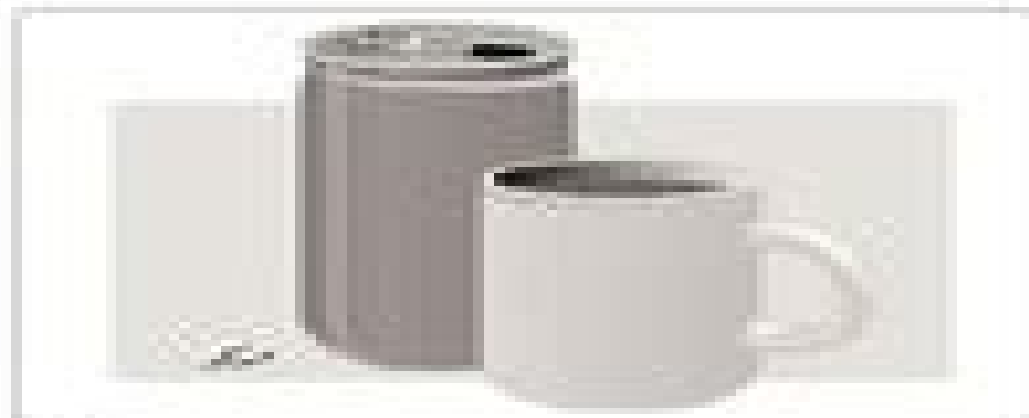
CZE analysis of artificial sweeteners and preservatives in drinks

Application Note

Food and Beverage

Authors

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Munich, Germany



Abstract

Efficient sample cleanup was achieved by combining extraction with the analysis of sweeteners in drinks. The method described was routinely applied to both beverages containing sucralose, a single sucralose spiked, and natural fruit-flavor samples at 100 ppb, with simultaneous 100-point identification, quantification, and peak purity analysis. Solvent and additive peak components in the sweetener range (100–1000 min) were separated using 250 min, 100% acetonitrile. With buffer optimization using two methods, resolution of peaks that elute before migration time and approximately 2 to 4% lower.



Agilent Technologies

Sweeteners Analysis Manual

**Food and Agriculture Organization of
the United Nations**



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Handbook of Food Analysis: Residues and other food component analysis Leo M. L. Nollet, 2004 Thoroughly updated to accommodate recent research and state of the art technologies impacting the field Volume 2 Residues and Other Food Component Analysis of 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 evaluates methods for establishing the presence of mycotoxins and phycotoxins identifying growth promoters and residual antibacterials tracking residues left by fungicides and herbicides discerning carbamate and urea pesticide residues confirming residual amounts of organochlorine and organophosphate pesticides detecting dioxin polychlorobiphenyl PCB and dioxin like PCB residues ascertaining n nitroso compounds and polycyclic aromatic hydrocarbons tracing metal contaminants in foodstuffs

Manuals of Food Quality Control Food and Agriculture Organization of the United Nations, 1986-01-01 Food Safety Handbook Ronald H. Schmidt, Gary E. Rodrick, 2005-03-11 As with the beginning of the twentieth century when food safety standards and the therapeutic benefits of certain foods and supplements first caught the public's attention the dawn of the twenty first century finds a great social priority placed on the science of food safety Ronald Schmidt and Gary Rodrick's Food Safety Handbook provides a single comprehensive reference on all major food safety issues This expansive volume covers current United States and international regulatory information food safety in biotechnology myriad food hazards food safety surveillance and risk prevention Approaching food safety from retail commercial and institutional angles this authoritative resource analyzes every step of the food production process from processing and packaging to handling and distribution The Handbook categorizes and defines real and perceived safety issues surrounding food providing scientifically non biased perspectives on issues for professional and general readers Each part is divided into chapters which are then organized into the following structure Introduction and Definition of Issues Background and Historical Significance Scientific Basis and Implications Regulatory Industrial and International Implications and Current and Future Implications Topics covered include Risk assessment and epidemiology Biological chemical and physical hazards Control systems and intervention strategies for reducing risk or preventing food hazards such as Hazard Analysis Critical Control Point HACCP Diet health and safety issues with emphasis on food fortification dietary supplements and functional foods Worldwide food safety issues including European Union perspectives on genetic modification Food and beverage processors manufacturers transporters and government regulators will find the Food Safety Handbook to be the premier reference in its field Handbook of Food Science, Technology, and Engineering Yiu H. Hui, 2006 Methods of Analysis for Functional Foods and Nutraceuticals W. Jeffrey Hurst, 2002-04-16 Written by experts at the forefront of phytochemical analysis this book covers the important classes of bioactive components of functional foods and nutraceuticals It also includes some components for which no acceptable methods of analysis are yet available Organized by compound class Methods of Analysis for Functional Foods and

Nutraceuticals Sweeteners Theodoros Varzakas, Athanasios Labropoulos, Stylianos Anestis, 2012-05-14 Sweeteners Nutritional Aspects Applications and Production Technology explores all essential aspects of sugar based natural non sugar based and artificial sweeteners The book begins with an overview presenting general effects safety and nutrition Next the contributors discuss sweeteners from a wide range of scientific and lifestyle perspe **Handbook of Food Science, Technology, and Engineering - 4 Volume Set** Y. H. Hui, Frank Sherkat, 2005-12-19 Advances in food science technology and engineering are occurring at such a rapid rate that obtaining current detailed information is challenging at best While almost everyone engaged in these disciplines has accumulated a vast variety of data over time an organized comprehensive resource containing this data would be invaluable to have The **Manuals of Food Quality Control** P. G. Martin, Food and Agriculture Organization of the United Nations, 1979-01-01 **Monthly Catalogue, United States Public Documents**, 1985-07 **Monthly Catalog of United States Government Publications**, 1994 Handbook of Food Products Manufacturing, 2 Volume Set Nirmal K. Sinha, 2007-04-27 The Handbook of Food Products Manufacturing is a definitive master reference providing an overview of food manufacturing in general and then covering the processing and manufacturing of more than 100 of the most common food products With editors and contributors from 24 countries in North America Europe and Asia this guide provides international expertise and a truly global perspective on food manufacturing

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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 of 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

Chemistry and Technology of Soft Drinks and Fruit Juices Philip R. Ashurst, 2008-04-15 Soft drinks and fruit juices are produced in almost every country in the world and their availability is remarkable From the largest cities to some of the remotest villages soft drinks are available in a variety of flavours and packaging The market for these products continues to show a remarkable potential for growth The variety of products and packaging types continues to expand and among the more significant developments in recent years has been the increase in diet drinks of very high quality many of which are based on spring or natural mineral water This book provides an overview of the chemistry and technology of soft drinks and fruit juices The original edition has been completely revised and extended with new chapters on Trends in Beverage Markets Fruit and Juice Processing Carbohydrate and Intense Sweeteners Non Carbonated Beverages Carbonated Beverages and Functional Drinks containing Herbal Extracts It is directed at graduates in food science chemistry or microbiology entering production quality control new product development or marketing in the beverage industry or in companies supplying ingredients or packaging materials to the beverage industry

Sensory Evaluation Techniques, Fourth Edition Morten C. Meilgaard, B. Thomas Carr, Gail Vance Cville, 2006-12-13 From listing the steps involved in a sensory evaluation project to presenting advanced statistical methods Sensory Evaluation Techniques Fourth Edition covers all phases of sensory evaluation Like its bestselling predecessors this edition continues to detail all sensory tests currently in use to promote the effective employment of these tests and to describe major sensory evaluation practices The expert authors have updated and added many areas in this informative guide New to this edition are expanded chapters on qualitative and quantitative consumer research and the Spectrum™ method of descriptive sensory analysis that now contains full descriptive lexicons for numerous products such as cheese mayonnaise spaghetti sauce white bread cookies and toothpaste Also new in this chapter is a set of revised flavor intensity scales for crispness juiciness and some common aromatics The book now includes an overview of Thurstonian scaling that examines the decision processes employed by assessors during their evaluations of products Another addition is a detailed discussion of data relationship techniques which link data from diverse sources that are collected on the same set of examples With numerous examples and sample tests Sensory Evaluation Techniques Fourth Edition remains an essential resource that illustrates the development of sensory perception testing

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Food Analysis by HPLC Leo M.L. Nollet, Fidel Toldra, 2012-11-16 For food scientists high performance liquid chromatography HPLC is a powerful tool for product composition testing and assuring product quality Since the last edition of this volume was published great strides have been made in HPLC analysis techniques with particular attention given to miniaturization automatization and green chemistry Tho

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