

1. Record Nr.	UNINA9911019925903321
Autore	Quevauviller Ph
Titolo	Analytical methods for drinking water : advances in sampling and analysis // Philippe Quevauviller, Clive Thompson
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2006
ISBN	9786610287734 9781280287732 128028773X 9780470094938 0470094931 9780470094921 0470094923
Descrizione fisica	1 online resource (198 p.)
Collana	Water Quality Measurements ; ; v.26
Altri autori (Persone)	ThompsonK. C <1944-> (Kenneth Clive)
Disciplina	363.6/1
Soggetti	Water - Analysis Drinking water - Analysis Drinking water - Government policy - Europe Drinking water - Government policy - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Analytical Methods for Drinking Water Advances in Sampling and Analysis; Contents; Series Preface; Preface; List of Contributors; 1 Drinking Water Regulations; 1.1 EU Directive on Drinking Water - Past, Present and Future; 1.1.1 EU Water Legislation; 1.1.2 The Drinking Water Directives - Revision Processes; 1.1.3 Main Aspects of the Drinking Water Directives; 1.1.4 Revision of the DWD and WHO Guidelines; 1.1.5 Conclusions; 1.2 Drinking Water Regulations in the United States; 1.2.1 Introduction; 1.2.2 History of the Safe Drinking Water Act; 1.2.3 Development of Regulations 1.2.4 Highlights of the Safe Drinking Water Act 1.2.5 Implementation of Regulations; 1.2.6 Conclusions; 1.3 Standardization; 1.3.1 Introduction; 1.3.2 Requirements to be met by Laboratories and Analytical Methods; 1.3.3 Standardization in CEN TC 230 Water Analysis and ISO TC 147 Water Quality; 1.3.4 Development of Standards in ISO/TC 147; 1.3.5

Special Standards Development Procedures; 1.3.6 Drafting of Standards; 1.3.7 EU Requirements for Standard Methods; References; 2 Bromate Determination; 2.1 Introduction; 2.2 Ion Chromatographic Methods
2.2.1 Identification and Removal of the Main Interferences 2.2.2 Sample Pre-treatment Automation; 2.3 Alternative Laboratory Methods; 2.3.1 Ion Chromatography / ICP-MS; 2.3.2 Ion Chromatography Spectrophotometry Detection; 2.3.3 Ion Pair Chromatography - Fluorescence Detection; 2.3.4 Flow Injection - ICP-MS; 2.4 Field-based Methods; 2.4.1 Spectrophotometric Method with Methylene Blue; 2.4.2 Flow Injection - Spectrophotometric Detection; 2.5 Stability of Bromate; 2.5.1 Effect of Water Matrix on Bromate Stability; 2.5.2 Stability of Bromate Species Immobilized on Alumina Microcolumns
2.6 Interlaboratory Exercise for Bromate Determination 2.7 Toxicity, Occurrence and Current Status of Bromate in Drinking Waters; References; 3 Lead Monitoring; 3.1 Factors Determining the Lead Concentration in Drinking Water; 3.1.1 Sources of Lead in Drinking Water; 3.1.2 Factors Determining the Lead Concentration in Drinking Water; 3.2 Sampling of Lead in Drinking Water; 3.2.1 Available Sampling Procedures; 3.2.2 Definition of a 'Representative Sample'; 3.2.3 Representative Sampling at an Individual Consumer's Tap; 3.2.4 Lead Analyses in Tap Water
3.3 Comparison of Sampling Procedures in the Field 3.3.1 European Study; 3.3.2 Applied Sampling Procedures; 3.3.3 Characteristics of Test Areas; 3.3.4 Applied Test Procedures; 3.3.5 Performance Criteria of Sampling Protocols; 3.3.6 Representativeness of the Tested Protocols; 3.3.7 Reproducibility of the Tested Protocols; 3.3.8 Costs, Practicality and Consumer Acceptance; 3.3.9 Final Evaluation of Sampling Procedures; 3.3.10 Experience with the Monitoring Protocol in France; 3.4 Fit for Purpose Lead Monitoring Protocols
3.4.1 The Requirements for Sampling and Monitoring Lead in Accordance with the DWD 98/83/EC

Sommario/riassunto

Drinking water policies and research are intimately linked. It is thanks to the scientific progress made over the last 25 years in identifying and controlling toxic products in drinking water that regulations have developed in such a way that the protection of public health from waterborne diseases has drastically improved. The integration of research outputs into the policy-making progress requires close cooperation among the scientific and policy communities, which is not always straightforward. Exchanges among scientific and policy-making communities are certainly representing key elements
