size analysis (sand, sik and clay – hydrometer); soil buffer pH. Adams/Evans and Mehlich; Mehlich-3 extractable cations (K. Ca. Mg. Za. Mn. Fe and Cu); soil cake iom carbonate; and total molybdenum in botanical materials. Collaborative laboratory work will continue to address methodology problems associated with problematic soil methods.

Acknowledgements The authors would like to thank: Arry Sorenson, Merrit Coleman of Utah State University, Lucretia Sherrod of Colorado State University and Victor Buey of University California Davis, for their assistance with this program. This program is supported by funding from the California De-

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#### References

- Miller JN (1993) Analyst 118:455-461.
- Dixon WI, Massey J (1951) Ratios involving extreme values.
   Annals of Mathematical Statistics, pp 68-78
- Gavlak RG, Horneck DA, Miller RÖ (1997) Plant, Soil, and Water Reference Methods for the Western Region. Western Regional Extension Publication #125

Fresenius J Anal Chem (1998) 360: 350-353 - © Springer-Verlag 1998

#### R. M. Parr · S. F. Stone · T. Bel-Amakeletch R. Zeisler

#### Survey of reference materials for trace elements, nuclides and organic microcontaminants

Received: 11 June 1997 / Revised: 7 July 1997 / Accepted: 9 July 1997

Abstract The International Atomic Energy Agency (IAEA), in co-operation with the United Nations Environment Programme (UNEP), has recently prepared a survey on internationally available analytical reference materials for trace elements, nuclides and organic contaminants in biological, environmental and related matrices. The purpose is to help analysis to select reference materials for quality assurance that match as closely as possible, with respect to matrix type and concentrations of the measurands of interest, the "real" samples that are to be measured. The present version of the survey, which is available in the form of two-cost-free printed volumes [1], contains over 10,000 certified and information values in 650 reference materials from 27 different producers. The 455 measurands listed include trace elements, major and minor elements, organic contaminants, organome tallic compounds, radionactides and stable inotopes. Currently, the distables from which the sur-

R. M. Parr (ES) - S. F. Stone! - T. Bel-Amakeletch - R. Zeisler? Department of Research and Isotopes, International Atomic Energy Agency, P.O. Box 100, A-1400 Vienna, Austria

Present address:
S. F. Stone
Descriptions of C

Department of Chemistry and Biochemistry, University of Maryland, College Park, USA

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Analytical Chemistry Division, National Institute of Standards and Technology, Guithersburg, Maryland, USA vey has been produced is being modified and extended so as to make the data available in electronic form via the Internet.

#### Introduction:

For almost 40 years, the International Atomic Energy Agency (IAEA) has been supporting work in its Member States involving the use of nuclear and isotopic methods of analysis, together with complementary analytical techniques. Particularly during the last ten years these has been a growing recognition of the fact that the results of analysical measurements are the basis upon which many economic, ecological, medical and legal decisions are made. Thus, reliable and accurate analysis is coming to be regarded as an essential requirement for international trade, development and protection of human and environmental health. This also means that analytical results must conform to certain quality standards, depending on the intended use, and they must be compatible with other analytical measurements on a national and regional scale. These efforts are critically dependent on access to information on the availability of suitable standards and reference materials.

In 1994 the International Atomic Energy Agency (IAEA) and the United Nations Environment Programme (UNEP) joined forces to assist their many collaborating laboratories located worldwide by providing this information in a form that is both comprehensive and "user-friendly". Emphasis has been placed on environmental and human health-related measurements of importance to the missions of the above mentioned UN agencies. The survey described in this report represents the essuls of these efforts. At the same time it also serves as the basis for making future updates and improvements in availability, for example via the Internet.

The survey data was originally entered into a Paradox database, which was directly used to prepare the currently available printed reports. Subsequently, this database was converted into Microsoft Access files, which will be used for making updates, and for creation of the Internet pages (see below).

#### Scope

The survey described in this report represents the output of a database, the scope of which is summarized in Table 1. In accordance with priorities set mainly by the IAEA's own peogrammes, the emphasis of the work to create this database was

D. Pérez-Bendito, S. Rubio

Biological and Environmental Reference Materials for Trace Elements, Nuclides and Organic Microcontaminants E. Cortes Toro, 1994 Includes information on radionuclides stable isotopes and organic microcontaminants Covers 2 694 analyte values for 117 analytes in 116 biological and 77 environmental non biological reference materials produced by 20 different suppliers Additional information on the cost of the material the unit size supplied weight or volume and the minimum weight of material recommended for analysis is also provided when available Will help analysts to select the reference material that matches as closely as possible the real samples that are to be analysed **Preconcentration Techniques For Trace Elements** Zeev Alfassi, Chien M. Wai, 1991-12-07 Accurate determination of trace elements is critical in various fields of science and technology Direct measurement of trace elements in samples with complex matrices is often impractical either due to analytical sensitivity limitations or matrix interferences Preconcentration procedures are generally needed to eliminate matrix interferences and or enrich minute amounts of analytes to a level for reliable measurements Preconcentration Techniques for Trace Elements provides up to date information on various preconcentration techniques and detailed discussions regarding such topics as the dissolution of matrices coprecipitation solvent extraction electrochemical means ion exchange sorption chromatographic methods flotation membranes volatization polymer foam sorbents fire assay isotachophoresis and filter papers This comprehensive volume featuring contributions from 21 experts from nine countries will provide valuable reference material for all scientists and technicians dealing with trace analysis of real world samples

Trace Element Analysis in Biological Specimens R.F.M. Herber, M. Stoeppler, 1994-05-19 The major theme of this book is analytical approaches to trace metal and speciation analysis in biological specimens. The emphasis is on the reliable determination of a number of toxicologically and environmentally important metals. It is essentially a handbook based on the practical experience of each individual author. The scope ranges from sampling and sample preparation to the application of various modern and well documented methods including quality assessment and control and statistical treatment of data. Practical advice on avoiding sample contamination is included. In the first part, the reader is offered an introduction into the basic principles and methods starting with sampling sample storage and sample treatment with the emphasis on sample decomposition. This is followed by a description of the potential of atomic absorption spectrometry atomic emission spectrometry voltammetry neutron activation analysis isotope dilution analysis and the possibilities for metal speciation in biological specimens. Quality control and all approaches to achieve reliable data are treated in chapters about interlaboratory and intralaboratory surveys and reference methods reference materials and statistics and data evaluation. The chapters of the second part provide detailed information on the analysis of thirteen trace metals in the most important biological specimens. The following metals are treated in great detail Aluminium arsenic cadmium chromium copper lead selenium manganese.

nickel mercury thallium vanadium and zinc The book will serve as a valuable aid for practical analysis in biomedical laboratories and for researchers involved with trace metal and species analysis in clinical biochemical and environmental Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories ,1993 of Scandium and Yttrium, Part 1: Physical and Chemical Fundamentals Chaim T. Horovitz, 2012-12-06 Biochemistry of Scandium and Yttrium gathers together existing knowledge about scandium and yttrium from a wide variety of disciplines Part 1 will present a comparative study of the physical and chemical properties of scandium and yttrium looking at both their similarities and their differences Part 2 will address the biochemical aspects of these two elements and the various medical and environmental applications While these elements are relatively rare in nature these books will show that they have unusual physical and chemical properties and a disproportionate number of important applications Improved analytical techniques have revealed that scandium and yttrium are present throughout living matter even though only a relatively limited number of species have been analyzed so far This fact of course has far ranging implications for biological and environmental concerns Part 1 also contains a discussion of the interactions of scandium and yttrium with molecules of biological interest such as organic acids carbohydrates proteins nucleotides and other biologically active molecules The major impacts of scandium and yttrium in science technology and medicine will be of interest to a wide variety of researchers including geochemists inorganic and organic chemists clinical biochemists and those specializing in environmental protection Biochemistry of Scandium and Yttrium Part 1 and Part 2 will be especially welcome because the last book published on the biochemistry of scandium appeared over 20 years ago and the only book mentioning the biochemistry of yttrium came out in 1990 Specimen Banking M. Rossbach, J.D. Schladot, P. Ostapczuk, 2012-12-06 M J Schwuger The Environmental Specimen Bank is a repository of representative environ mental specimens for safe long term storage over decades and centuries without any chemical change in the constituents It represents the modern form of a systematically designed collection which will permit comparative analyses and evaluations of chemicals in the future The aims are the determination of selected chemical compounds at the time of storage comparative investigations with new methods for chemicals which at the time of storage could not be determined or were not recognized as important observation of trends in the environment using authentic material from the past and documentation of long term changes Environmental specimen banking is thus suitable for identifying environmental changes and initiating necessary measures of remediation It may be used to identify problems study correlations between cause and effect and determine the effectiveness of legislative measures as well as to recommend the activities required This is not only ecologically important but also relevant for man since he is the last member in the food chain and is therefore affected by all compartments of the environment For this reason two banking systems were established in Germany one for environmental specimens Jiilich and the other for human specimens Miinster Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories United States. Environmental Protection Agency.

Office of Water, Fish Contaminant Section, 2000 Energy Research Abstracts ,1990 TRAC: Trends in Analytical Chemistry U A Th Brinkman, A. E. Bruno, A. L. Burlingame, 2013-09-17 TRAC Trends in Analytical Chemistry Volume 10 presents relevant topics in global analytical chemistry research This book discusses the potential of flow injection analysis for water quality monitoring Organized into 27 parts encompassing 67 chapters this book begins with an overview of the amount of published information on analytical chemistry research This text then examines the analytical technique in the electrophoretic separations in narrow bore tubes which is capable of rapid high resolution separations of water soluble components in small sample volumes Other chapters consider the application of polynomial and B spline interpolation to the description of cyclic voltammetric features This book discusses as well the methods used to investigate the properties of ceramic high transition temperature superconductors. The final chapter deals with the importance of monitoring and protecting the environment based on measurement campaigns This book is a valuable resource for analytical chemists environmental chemists and biochemists Pharmacologists scientists students researcher workers and other practitioners will also find this book useful **Reference Materials for Chemical Analysis** Markus Stoeppler, Wayne R. Wolf, Peter J. Jenks, 2008-07-11 There are many academic references describing how RMs are made but few that explain why they are used how they should be used and what happens when they are not properly used In order to fill this gap the editors have taken the contributions of more than thirty RM practitioners to produce a highly readable text organized in nine chapters Starting with an introduction to historical theoretical and technical requirements the book goes on to examine all aspects of RM production from planning preparation through analysis to certification reviews recent development areas RMs for life analysis and some important general application fields considers the proper usage of RMs gives advice on availability and sources of information and lastly looks at future trends and needs for RMs This book is intended to be a single point of information that both guides the reader through the use of RMs and serves as a primary reference source It should be on the reading list of anyone working in an analytical laboratory and be found on the library shelf of all analytical chemical laboratories Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories, 1995 **Encyclopedia of Analytical Science** ,1995 Trace Elements in Laboratory Rodents Ronald R. Watson, 2020-10-28 Written by the international community s leading experts Trace Elements in Laboratory Rodents describes the best and most current methods to provide deficient or supplemental trace elements to laboratory animals as well as how to assay them The experts warn of the common pitfalls and hidden problems in nutritional testing and how to avoid them This how to approach focuses on the technical details that make good reliable studies Common as well as rare or recently recognized minerals are described relating to both dietary supplementation and measurement in tissues If you are a researcher professor or student working in nutrition food science biochemistry or veterinary medicine you can t afford to be without this excellent hands on methods manual The Use of Recovery Factors in Trace Analysis Michael Parkany, 1996 The September 1996 proceedings

are devoted to determining when recovery factors are justified and developing coherent analysis descriptions for procedural standards and protocols The eight lectures review the present less than ideal situation offering practical solutions from the field regarding recovery factors in analytical chemistry inorganic analysis the use of radioisotopic tracers the use of recovery data in veterinary drug residue analysis and for the analysis of organochlorine pesticides in water samples The volume also features the report of the 20th session of the Codex Committee on Methods of Analysis and Sampling Includes a selective listing of international standards Annotation copyrighted by Book News Inc Portland OR Environmental Analytical Chemistry D. Pérez-Bendito, S. Rubio, 1999 Notwithstanding the vast amount of environmental analytical chemical literature available publications dealing with environmental analytical chemistry in a general integrated manner are rather scant In fact most literature on such a relevant topic appears to touch on individual aspects such as water or air pollution applicable conventional or special equipment used with given matrices and specific pollutant groups Most of these books are of interest to experts and only a few if any provide less experienced readers with a systematic comprehensive description of environmental analytical issues This book which is intended to fill the gap approaches the subject by focusing on the sample and its handling The fourteen chapters that make up the book follow a logical sequence of sample matrices and analyte types The first six are of paramount importance as they lay the foundations for a basic yet comprehensive coverage of the subject in the others Following the required introduction to environmental chemistry Chapters 2 to 6 deal sequentially with environmental quality assurance quality control fundamentals and practical aspects of environmental sampling the preconcentration of environmental samples and environmental control standards Chapters 7 to 12 are concerned with the analytical control of inorganic and organic pollutants in air water and soil Finally the last two chapters are devoted to speciation and chemometrics in environmental analysis Each chapter presents the state of the art of the environmental topic covered and illustrates it with a wealth of practical examples Overall the book contains about one hundred tables almost two hundred figures and more than 1700 references all of which make it a pedagogical current reference work On the borderline between a textbook and a monograph it is intended to be useful both as an academic text for the burgeoning number of undergraduate and postgraduate courses on the subject as a reference book for those starting work in the environmental field and as a source of first hand information on environmental science and its practical laboratory aspects Government Reports Annual Index ,1991 Subject Guide to Books in Print ,1991 Akkreditierung und Qualitätssicherung in der Analytischen Chemie Helmut Günzler, 2013-03-09 Die Bedeutung internationaler Normen im t glichen Leben ist offensichtlich Sie bestimmen die Greunserer Kreditkarten und vieles andere mehr Gleicherma en bedeutend sind Normen und Verfahren zur Qualit tssicherung in den Bereichen der Analytischen Chemie dort wo Wirtschaftsg ter von der Schiffsladung Erz bis zum Elektronikchip analysiert werden Das Buch beschreibt die jetzt aktuellen Verfahren zur Sicherung der Qualit t solcher Analysenergebnisse und zur gegenseitigen Anerkennung der entsprechenden Gutachten Besonderen

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