

Guideline For Inter Laboratory Tests Bisfa

Precision of Test Methods **Advances in Interlaboratory Testing and Evaluation of Bituminous Materials** *Proficiency Testing in Applications of the Ionizing Radiation and Nuclear Analytical Techniques in Industry, Medicine, and Environment* **Report 29: Pavement Performance Prediction and Evaluation (PPPE) Interlaboratory tests - Report of RILEM TC 152-PBM and 182-PEB** **Inter-Laboratory Study on Electrochemical Methods for the Characterization of CoCrMo Biomedical Alloys in Simulated Body Fluids** **ASTM Manual for Conducting an Interlaboratory Study of a Test Method** **Particle Measurement Programme Heavy-Duty Inter-Laboratory Exercise** **PMP Inter-laboratory Correlation Exercise** **PMP Inter-laboratory Correlation Exercise** *Inter-Laboratory Comparison on Indoor Radon Measurements under Field Conditions* **Report on the 6th Inter-laboratory Comparison Test Organised by the EU The Laboratory Quality Assurance System** *Collaborative Interlaboratory Studies in Chemical Analysis First Inter-laboratory comparison report of the Regional Soil Laboratory Network For Asia (SEALNET)* **Protocol Development and Interlaboratory Testing with Complex Effluents** **Test Quality for Construction, Materials and Structures** **Masonry** **Arsenic and Mercury Handbook of Indoor Air Quality** *Proficiency Testing by Interlaboratory Comparison Performed in 2010/2015 for Neutron Activation Analysis and Other Analytical Techniques* **Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms** *Thermal Measurements* **The Chemical Analysis of Water** **Clinical Core Laboratory Testing** **Software Development in Chemistry 5** *Performance Criteria for an Astm Xrf Standard Test Method for Chemical Analysis of Hydraulic Cements* **Performance Criteria for an Astm Xrf Standard Test Method for Chemical Analysis of Hydraulic Cements** *Progress in Standardization of Aquatic Toxicity Tests* **Fatigue Crack Growth Measurement and Data Analysis** **Forensic DNA Typing** *Developing Solid Oral Dosage Forms* **Cumulated Index Medicus** *Accelerated Testing* *Advanced Mathematical And Computational Tools In Metrology And Testing Xi* **Accreditation and Quality Assurance in Analytical Chemistry** **A Manual for the Chemical Analysis of Metals** *Analysis of Environmental Radionuclides* *Laboratory quality control and patient safety* *Quality Control and Assurance* *Inventory of Federal Energy-related Environment and Safety Research for ...*

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PMP Inter-laboratory Correlation Exercise Mar 22 2022

Advanced Mathematical And Computational Tools In Metrology And Testing Xi Dec 27 2019

This volume contains original, refereed contributions by researchers from institutions and laboratories across the world that are involved in metrology and testing. They were adapted from presentations made at the eleventh edition of the Advanced Mathematical and Computational Tools in Metrology and Testing conference held at the University of Strathclyde, Glasgow, in September 2017, organized by IMEKO Technical Committee 21, the National Physical Laboratory, UK, and the University of Strathclyde. The papers present new modeling approaches, algorithms and computational methods for analyzing data from metrology systems and for evaluation of the measurement uncertainty, and describe their applications in a wide range of measurement areas. This volume is useful to all researchers, engineers and practitioners who need to characterize the capabilities of measurement systems and evaluate measurement data. Through the papers written by experts working in leading institutions, it covers the latest computational approaches and describes applications to current measurement challenges in engineering, environment and life sciences.

Forensic DNA Typing Apr 30 2020 Forensic DNA Typing, Second Edition, is the only book available that specifically covers detailed information on mitochondrial DNA and the Y chromosome. It examines the science of current forensic DNA typing methods by focusing on the biology, technology, and genetic interpretation of short tandem repeat (STR) markers, which encompass the most common forensic DNA analysis methods used today. The book covers topics from introductory level right up to cutting edge research. High-profile cases are addressed throughout the text, near the sections dealing with the science or issues behind these cases. Ten new chapters have been added to accommodate the explosion of new information since the turn of the century. These additional chapters cover statistical genetic analysis of DNA data, an emerging field of interest to DNA research. Several chapters on statistical analysis of short tandem repeat (STR) typing data have been contributed by Dr. George Carmody, a well-respected professor in forensic genetics. Specific examples make the concepts of population genetics more understandable. This book will be of interest to researchers and practitioners in forensic DNA analysis, forensic scientists, population geneticists, military and private and public forensic laboratories (for identifying individuals through remains), and students of forensic science. *The only book available that specifically covers detailed information on mitochondrial DNA and the Y chromosome *Chapters cover the topic from introductory level right up to "cutting edge" research *High-profile cases are addressed throughout the book, near the sections dealing with the science or issues behind these cases *NEW TO THIS EDITION: D.N.A. Boxes--boxed "Data, Notes & Applications" sections throughout the book offer higher levels of detail on specific questions

Report 29: Pavement Performance Prediction and Evaluation (PPPE) Interlaboratory tests - Report of RILEM TC 152-PBM and 182-PEB Jul 26 2022

Proficiency Testing in Applications of the Ionizing Radiation and Nuclear Analytical Techniques in Industry, Medicine, and Environment Aug 27 2022 The first Workshop on 'Nuclear Proficiency Testing' (PT) focused on the new topic appeared at the junction of the nuclear basic research, metrology, quality control in applications, and the new 'Science of Analytical Performance' (SAP), namely: 'how to get/prove the most accurate and precise scientific/technical results in the current practice. Any analytical laboratory should fulfill this goal in order to assure the public credibility of its results, either it is part of the scientific research institute, or a laboratory dedicated to the routine control of the environment, industry, health /medicine, radioprotection, or dosimetry, as the quality of the analytical results and of the services that will be further used depend critically on the accuracy and validity of measurements (EN ISO/IEC Standard 17025: 2005). 'Proficiency Testing' plays a central role in this process as the best tool to prove and certify the Laboratory's Performance & Competence; it belongs to

SAP, which, in our case, should be called SNAP (Science of the Nuclear Analytical Performance), as it concerns performance in applications of the nuclear analytical techniques. The 'PT Workshop-2007' created the opportunity to learn the criteria / tools used for interpreting the experimental results and evaluating performance, 'how to fit' the laboratory's performance with the rigor of international 'Proficiency Testing' evaluation, to understand the basic aspects of methods validation and traceability of the nuclear physical quantities to SI, use of the reference materials and of the statistic criteria for the fitness-for-purpose objectives, advantages of the ILC /PT exercises, and how to get the 'Excellence'; so, it was primarily a 'school' , but not only, because the meeting was also a framework for participants to present their latest results and developments. The unique feature of the 'PT Workshop-2007' was the participation –for the first time in a scientific meeting of experts intimately involved in the development of International and National Standards and the organization of international Inter-Laboratory Comparison (ILC) and Proficiency Testing (PT) exercises, of experts involved in radionuclide metrology, who generally establish the norms and requirements for the accuracy of measurements and analytical methods, and experts and specialists involved in nuclear application, as 'lectors'. Their presence and lessons assured the highest level of knowledge for a successful 'school' in the field of Nuclear Proficiency Testing, and the discussions they created were very fruitful, to the benefit of all the participants.

The Chemical Analysis of Water Dec 07 2020

Quality Control and Assurance Jul 22 2019 Quality control and assurance cover a diverse area of modern life and play, undeniably, an important role. This book brings together a collection of international papers that showcase examples of current research and practice in industry and the medical profession. It is hoped that engineers, researchers and scientists will be assisted in their continuous quest for excelling in qualitative aspects. The Ancient Greek word arete means excellence or virtue and defines the highest qualitative state: a mans effectiveness and skill in goodness (optimum potentiae). Indeed, Ancient Greeks believed that without quality control, specifications are useless and may result to illegitimacy, which in turn may become a threat to society itself.

Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms Feb 09 2021

PMP Inter-laboratory Correlation Exercise Feb 21 2022

A Manual for the Chemical Analysis of Metals Oct 25 2019

Performance Criteria for an Astm Xrf Standard Test Method for Chemical Analysis of Hydraulic Cements Aug 03 2020 Bulk oxide determinations from a pair of port-land cements provides the basis for calculation precision and accuracy values for X-ray fluorescence (XRF) analysis for both the fused glass bead and the pressed powder sample preparation. This report is the second in a series on an Inter-laboratory study on chemical analyses of hydraulic cements by X-ray fluorescence for the purpose of estimating precision and qualification criteria. Approximately 45 laboratories provided six replicates analyzed in duplicate for two separate port-land cements containing ca. 5 % limestone, covering fifteen analytes, CaO, SiO₂, Al₂O₃, Fe₂O₃, SO₃, MgO, Na₂O, K₂O, TiO₂, P₂O₅, Mn₂O₃, SrO, ZnO, Cr₂O₃, and Cl, with the laboratories roughly split between the two different sample preparations. Chemical data using traditional chemical analyses (the Reference Methods) from the Cement and Concrete Reference Laboratory (CCRL) proficiency test program were included for comparison to the XRF results. *Analysis of Environmental Radionuclides* Sep 23 2019 The purpose of this book is to present a state of art summary of current knowledge of methods of assessment of radionuclides in the terrestrial and marine environments. It cover the traditional methods of radioactivity measurements such as radiometrics techniques, but also recent developments in the mass

spectrometry sector. The book starts with a short preface introducing the subject of the book, summarising content and philosophy of the book, as well as the most important historical achievements. The scientific topics are introduced by description of sampling methods, optimisation of sampling sites and sampling frequency. The recent developments in radiochemical separation methods using chromatography resins for the treatment of actinides, transuranics and other groups of radioelements are also described. No other book is available covering all aspects of environmental radioactivity measurements, although remarkable progress has been made in detection techniques over the last ten years. At present the new methods enable to carry out investigations which were not possible before, either because of lack of sensitivity or because of the fact that they required too large samples.

The Laboratory Quality Assurance System Nov 18 2021 Both the 17025:1999 standard and especially ANSI/ISO/ASQ 9001-2000 standard require that a laboratory document its procedures for obtaining reliable results. The Laboratory Quality Assurance Manual details to the user how to prepare a new laboratory quality assurance manual, which will be appropriate to use as a procedures manual for a particular laboratory, a sales tool to attract potential customers, a document that can be to answer regulatory questions, and ultimately a tool to become a registered ISO 9001/2000 Lab and gain related certifications based on the standard. The Laboratory Quality Assurance Manual: -Incorporates changes to ANSI/ISO/ASQ 9001-2000 pertaining to laboratories. -Provides blank forms used in preparing a quality manual. -Provides information on the interrelationship of ANSI/ISO 17025:1999 and ANSI/ISO/ASQ 9001-2000.

First Inter-laboratory comparison report of the Regional Soil Laboratory Network For Asia (SEALNET) Sep 16 2021 The Global Soil Laboratory Network (GLOSOLAN) was formally established under the framework of the Global Soil Partnership (GSP) in November 2017, when its first meeting took place at FAO Headquarters in Rome, Italy. GLOSOLAN's objectives are: (1) to strengthen the performance of laboratories through use of standardized methods and protocols, and (2) to harmonize soil analysis methods so that soil information is comparable and interpretable across laboratories, countries and regions. In this context, GLOSOLAN plans to develop open access Standard Operating Procedures and manuals on good laboratory practices, execute regional and global proficiency testing, and increase the overall performance of laboratories through the organization of training sessions. By April 2019, over 220 laboratories from all continents were registered in GLOSOLAN. The South-East Asian Laboratory Network (SEALNET) which corresponds to the Regional Soil Laboratory Networks for the South-East Asian region decided to conduct an independent assessment of the technical performance of SEALNET laboratories through an inter-laboratory comparison. This report presents the results of the analysis using different figures to help laboratory managers and other non-specialist readers to perceive the different aspects of (i) the laboratory performance evaluation, (ii) the way to identify the technical problems in case of poor performances and (iii) suggesting which solutions can be proposed to improve the analytical performances

Thermal Measurements Jan 08 2021 Annotation Presenting the proceedings of a symposium of the same name as the volume, held in December 2001 as part of the E-5 Fire Standards Committee meeting in Dallas, Texas, this volume contains 11 contributions representing recent work in a variety of thermal measurement topics. These include temperature uncertainties for bare-bead and aspirated thermocouple measurements in fire environments; Sandia heat flux gauge thermal response and uncertainty models; and thermal measurements for fire fighters' protective clothing. Lacks a subject index. Annotation copyrighted by Book News, Inc., Portland, OR.

Software Development in Chemistry 5 Oct 05 2020 Organized by the working group
Protocol Development and Interlaboratory Testing with Complex Effluents Aug 15 2021

Developing Solid Oral Dosage Forms Mar 30 2020 *Developing Solid Oral Dosage Forms* is intended for pharmaceutical professionals engaged in research and development of oral dosage forms. It covers essential principles of physical pharmacy, biopharmaceutics and industrial pharmacy as well as various aspects of state-of-the-art techniques and approaches in pharmaceutical sciences and technologies along with examples and/or case studies in product development. The objective of this book is to offer updated (or current) knowledge and skills required for rational oral product design and development. The specific goals are to provide readers with: Basics of modern theories of physical pharmacy, biopharmaceutics and industrial pharmacy and their applications throughout the entire process of research and development of oral dosage forms Tools and approaches of preformulation investigation, formulation/process design, characterization and scale-up in pharmaceutical sciences and technologies New developments, challenges, trends, opportunities, intellectual property issues and regulations in solid product development The first book (ever) that provides comprehensive and in-depth coverage of what's required for developing high quality pharmaceutical products to meet international standards It covers a broad scope of topics that encompass the entire spectrum of solid dosage form development for the global market, including the most updated science and technologies, practice, applications, regulation, intellectual property protection and new development trends with case studies in every chapter A strong team of more than 50 well-established authors/co-authors of diverse background, knowledge, skills and experience from industry, academia and regulatory agencies

Test Quality for Construction, Materials and Structures Jul 14 2021 Testing of materials and manufactured items is a key element in the process from standard specifications through control and verification during manufacture to trade in actual products. Cooperative agreements and networks are being set up covering reference materials and calibration. This process is becoming more urgent with the development in the European market and other international developments. This book presents international views on this fast changing field, with the main themes of: technical components of test quality; quality assurance in testing laboratories; laboratory accreditation and transnational recognition of test results.

Cumulated Index Medicus Feb 27 2020

Fatigue Crack Growth Measurement and Data Analysis Jun 01 2020

Inter-Laboratory Study on Electrochemical Methods for the Characterization of CoCrMo

Biomedical Alloys in Simulated Body Fluids Jun 25 2022 This special issue of *Corrosion*

Engineering Science and Technology is dedicated to the study of corrosion of objects from historical sites. The issue contains contributions from the 2009 EUROCORR session on Corrosion of Archaeological and Heritage Artefacts organised by the European Federation of Corrosion's working party and commissioned articles on other key issues. The objective is to give the reader a broad understanding of corrosion of ancient materials, for the most part metal but also glass. Articles shed light on a range of analytical approaches related to the study of the complex systems that make up historical artifacts. In order to arrive at an understanding of the nanometric organisation of rust layers and interphases, such studies must be approached on a macroscopic scale. Techniques used include; macrophotography, synchrotron radiation and transmission electron microscopy (TEM) that ensure results that are both exhaustive and representative of particular observations. This issue demonstrates the wealth of approaches possible in the study of the corrosion of ancient materials.

ASTM Manual for Conducting an Interlaboratory Study of a Test Method May 24 2022

Progress in Standardization of Aquatic Toxicity Tests Jul 02 2020 *Progress in Standardization of Aquatic Toxicity Tests* provides a critical evaluation of the level of standardization achieved by freshwater and marine ecotoxicity tests used to evaluate potential risk of new chemicals and

wastewater effluents. Tests at the sub-cellular, individual, laboratory microcosm, and ecosystem levels are presented and critically evaluated. The influence of environmental and genetic heterogeneity on test standardization is also discussed. The book will be an excellent reference for industry professionals, consultants, regulatory officials, and students working in the ecotoxicology field.

Report on the 6th Inter-laboratory Comparison Test Organised by the EU Dec 19 2021

Accreditation and Quality Assurance in Analytical Chemistry Nov 25 2019 Quality assurance and accreditation in analytical chemistry laboratories is an important issue on the national and international scale. The book presents currently used methods to assure the quality of analytical results and it describes accreditation procedures for the mutual recognition of these results. The book describes in detail the accreditation systems in 13 European countries and the present situation in the United States of America. The editor also places high value on accreditation and certification practice and on the relevant legislation in Europe. The appendix lists invaluable information on important European accreditation organizations.

Precision of Test Methods Oct 29 2022

Laboratory quality control and patient safety Aug 23 2019 Every clinical laboratory devotes considerable resources to Quality Control. Recently, the advent of concepts such as Analytical Goals, Biological Variation, Six Sigma and Risk Management has generated a renewed interest in the way to perform QC. However, laboratory QC practices remain highly non-standardized and a lot of QC questions are left unanswered. The objective of this book is to propose a roadmap for the application of an integrated QC protocol that ensures the safety of patient results in the everyday lab routine.

Advances in Interlaboratory Testing and Evaluation of Bituminous Materials Sep 28 2022

This STAR on asphalt materials presents the achievements of RILEM TC 206 ATB, acquired over many years of interlaboratory tests and international knowledge exchange. It covers experimental aspects of bituminous binder fatigue testing; the background on compaction methods and imaging techniques for characterizing asphalt mixtures including validation of a new imaging software; it focuses on experimental questions and analysis tools regarding mechanical wheel tracking tests, comparing results from different labs and using finite element techniques. Furthermore, long-term rutting prediction and evaluation for an Austrian road are discussed, followed by an extensive analysis and test program on interlayer bond testing of three different test sections which were specifically constructed for this purpose. Finally, the key issue of manufacturing reclaimed hot mix asphalt in the laboratory is studied and recommendations for laboratory ageing of bituminous mixtures are given.

Handbook of Indoor Air Quality Apr 11 2021 People live in indoor environment about 90% of lifetime and an adult inhales about 15 kg air each day, over 75% of the human body's daily mass intake (air, food, water). Therefore, indoor air quality (IAQ) is very important to human health. This book provides the basic knowledge of IAQ and highlights the research achievements in the past two decades. It covers the following 12 sections: introduction, indoor air chemicals, indoor air particles, measurement and evaluation, source/sink characteristics, indoor chemistry, human exposure to indoor pollutants, health effects and health risk assessment, IAQ and cognitive performance, standards and guidelines, IAQ control, and air quality in various indoor environments. It provides a combination of an introduction to various aspects on IAQ studies, the current state-of-knowledge, various advances and the perspective of IAQ studies. It will be very helpful for the researchers and technicians in the IAQ and the related fields. It is also useful for experts in other fields and general readers who want to obtain a basic understanding of and research advances in the field of IAQ. A group of experts in IAQ research have been recruited to write the chapters. Their research interests and experience cover the scope of the book. In

addition, some experienced experts in IAQ field have been invited as advisors or reviewers to give their comments, suggestions and revisions on the handbook framework and the chapter details. Their contribution guarantees the quality of the book. We are very grateful to them. Last but not least, we express our heartfelt thanks to Prof. Spengler, Harvard University, for writing the foreword of the current Handbook of Indoor Air Quality both as a pioneer scientist who contributed greatly to indoor air science and as an Editor-in-chief of Handbook of Indoor Air Quality 2001, 1st ed. New York: McGraw-Hill. In addition to hard copies, the book is also published online and will be updated by the authors as needed to keep it aligned with current knowledge. These salient features can make the handbook fresh with the research development.

Collaborative Interlaboratory Studies in Chemical Analysis Oct 17 2021

Inter-Laboratory Comparison on Indoor Radon Measurements under Field Conditions Jan 20

2022 The Radon Group from the University of Cantabria in Spain organized, in old uranium mine, a new inter-laboratory performance exercise to measure radon indoors exposure and external gamma radiation, with changing parameters of temperature, pressure and humidity. In this book are shown the results of the inter-comparison as well as discussions of the achieved results in which were involved 41 laboratories from different European countries.

Particle Measurement Programme Heavy-Duty Inter-Laboratory Exercise Apr 23 2022

Arsenic and Mercury May 12 2021

Inventory of Federal Energy-related Environment and Safety Research for ... Jun 20 2019

Performance Criteria for an Astm Xrf Standard Test Method for Chemical Analysis of Hydraulic

Cements Sep 04 2020 Bulk oxide determinations from a pair of portland cements provides the basis for calculation precision and accuracy values for X-ray fluorescence (XRF) analysis for both the fused glass bead and the pressed powder sample preparation. Approximately 45 laboratories provided six replicates analyzed in duplicate for two separate portland cements covering eleven analytes, CaO, SiO₂, Al₂O₃, Fe₂O₃, SO₃, MgO, Na₂O, K₂O, TiO₂, P₂O₅, and Cl, with the laboratories roughly split between the two different sample preparations. Chemical data using traditional chemical analyses (the Reference Methods) from the Cement and Concrete Reference Laboratory (CCRL) proficiency test program were included for comparison to the XRF results.

Clinical Core Laboratory Testing Nov 06 2020 The clinical laboratory is often known as a "black box" to nurses, physicians, and surgeons, but this concise book removes the veil by covering all the pertinent aspects of the clinical laboratory. This book bridges between medicine and chemistry by offering an overview to a clinical laboratory's structure and function, the importance of laboratory utilization and test ordering, as well as pre-analytical, analytical, and post-analytical issues of importance to recognize in any clinical laboratory. An interactive FAQ and a detailed index are also available.

Accelerated Testing Jan 28 2020 From the Foreword Accelerated Testing: Nature and Artificial Weathering in the Coatings Industry is aimed at all those involved or interested in creating, producing, applying, and testing modern high-quality coatings for outdoor use. Coatings are exposed to a great many severe natural stresses that cause a gradual deterioration of the properties which are responsible for the coatings' very quality. Nevertheless, buyers expect coated products to remain in an as-new condition -- which is mostly characterised by a highly attractive appearance and intact surface -- for as long as possible. This calls for coatings of high weatherability and long service life. In this book, accelerated testing, through its simulation of the destructive action of natural weathering, is the means for testing this coating quality. Test engineers shoulder much responsibility because not only must the results form the basis for reliable predictions, but they must also be obtained economically and as quickly as possible. Their results are the dominant factor in any decision to take a new coating creation into series

production. Accelerated testing has become an indispensable tool in the paint and coatings chemistry as a means of avoiding nasty surprises by coatings in normal use. Other methods of predicting service life are still too unreliable, given the extent of current weathering knowledge. Modern-day, high-quality coatings are highly complex systems which contain numerous essential additives. Not surprisingly, coatings chemistry is therefore sometimes jokingly likened to alchemy. But natural weathering, in all its random manifestations of different impact, is equally complex. Words alone cannot describe how best to simulate the team-like interaction of such a complex system in the laboratory. There is more to successful simulation than applying a standardized test method, or switching on a fully controlled weathering device which has been marketed as an all-rounder. It takes know-how, experience and skill. This book will help such abilities to be acquired.

Masonry Jun 13 2021 Papers from a June 2006 symposium report on recent work in cement, lime, mortars for unit masonry, and manufactured masonry units. Some specific topics covered include investigation and repair of glazed brick cladding, the benefits and problems of ASTM C 1324 for analyzing hardened masonry mortars, time-of-cooling effects on mortar joint color, and the selection and use of natural and manufactured stone adhered veneer. Other subjects examined include deflection criteria for masonry beams, the effect of void area on brick masonry performance, seismic evaluation of low-rise reinforced masonry buildings with flexible diaphragms, and greening of mortars. B&w photos and illustrations are included. Trimble is affiliated with the Brick Industry Association. Brisch is affiliated with Rockwell Lime Company. There is no subject index.

Proficiency Testing by Interlaboratory Comparison Performed in 2010-2015 for Neutron Activation Analysis and Other Analytical Techniques Mar 10 2021 The IAEA supports its Member States to increase the utilization of their research reactors. Small and medium sized reactors are mostly used for neutron activation analysis (NAA). Although the markets for NAA laboratories have been identified, demonstration of valid analytical results and organizational quality of the work process are preconditions for expanding the stakeholder community, particularly in commercial routine application of this powerful technique. The IAEA has implemented a new mechanism for supporting NAA laboratories in demonstrating their analytical performance by participation in proficiency testing schemes by interlaboratory comparison. This activity makes possible the identification of deviations and non-conformities, their causes and the process to implement effective approaches to eliminate them. Over 30 laboratories participated between 2010 and 2015 in consecutive proficiency tests organized by the IAEA in conjunction with the Wageningen Evaluating Programmes for Analytical Laboratories (WEPAL) to assess their analytical performances. This publication reports the findings and includes lessons learned of this activity. An attached CD-ROM contains many individual participating laboratory papers sharing their individual results and experience gained through this participation.

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