



The mission of the JRC-IRMM is to promote a common and reliable European measurement system in support of EU policies.

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Europe & Metrology in Turkey, (EMIT) workshop: Source preparation and Instrument efficiency calibration in liquid scintillation counting

Agenda

Event code: EMIT So3-10

TAEK - SANAEM
Ankara, Turkey
6 – 8 June, 2011



Robust science for policy making

OUR MISSION

The mission of the Joint Research Centre is to provide customer-driven scientific and technical support for the conception, development, implementation and monitoring of European Union policies. As a service of the European Commission, the Joint Research Centre functions as a reference centre of science and technology for the Union. Close to the policy-making process, it serves the common interest of the Member States, while being independent of special interests, whether private or national.



EMIT workshop So3-10: Source preparation and instrument efficiency calibration in liquid scintillation counting

6 June 2011

- 09:30 Welcome and introduction of the EMIT project
- 09:45 Radioactivity Measurements at JRC-IRMM
- 10:30 *Coffee*
- 11:00 Liquid Scintillation Counting:
Introduction - Mechanism - Instrumentation
- 12:30 *Lunch*
- 13:30 Source Preparation for LSC - I
LSC requirements - Cocktail selection - Quantitative source preparation
- 15:00 *Coffee*
- 15:30 Source Preparation for LSC - II
Use of analytical balances - Calibration - Corrections - Substitution method - Quality control
- 17:00 Questions & discussions

7 June 2011

- 09:00 LSC Efficiency Calibration:
The Quench curve and
The CIEMAT/NIST method - Theory
- 10:30 *Coffee*
- 11:00 LSC Efficiency Calibration:
The CIEMAT/NIST method - Calculations
- 12:30 *Lunch*
- 13:30 LSC Efficiency Calibration:
The CIEMAT/NIST method - Practice
- 15:00 *Coffee*
- 15:30 LSC Efficiency Calibration:
The CIEMAT/NIST method - Examples
- 17:00 Questions & discussions

8 June 2011

- 09:00 LSC Efficiency Calibration:
Dual label measurements
- 10:30 *Coffee*
- 11:00 Examples of actual measurements
(Practical exercises)
- 12:30 *Lunch*
- 13:30 Various topics:
Uncertainty budget - GLP - Instrument
Performance Assessment - etc.
- 15:00 *Coffee*
- 15:30 Questions & discussions
- 16:00 Learning evaluation. Distribution of
certificates. Closing of the event.

All lectures by
Dr. T. Altizoglou, JRC-IRMM

