



0658

ISO 17025

Certificate of Calibration

Certificate Number: D123425

Date Issued: 01/09/2007

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Description:

ICP Calibration mix D13m multi-element reference solution

Category & Code:

ROMIL PrimAg[®]-plus

MEO44

Specification:

13 components:

As, Bi, Cd, Cr, Cu, Fe, Hg, Mo, Pb, Pd*, Sb, Sn, Zn 100 ppm each

Matrix: HNO₃ 0.5M

Application: ICP calibration

Batch Number:

D123425

Date of Calibration:

September 2007

Component:

Component:	Calibration Result (m/v @ 20°C):	Expanded Uncertainty:
As	100.1 ppm	± 0.2 ppm
Bi	100.02 ppm	± 0.04 ppm
Cd	99.7 ppm	± 0.1 ppm
Cr	100.4 ppm	± 0.4 ppm
Cu	100.5 ppm	± 0.1 ppm
Fe	100.6 ppm	± 0.1 ppm
Hg	100.7 ppm	± 0.2 ppm
Mo	100.8 ppm	± 0.3 ppm
Pb	100.9 ppm	± 0.1 ppm
Pd*	100.0 ppm*	± 0.5 ppm*
Sb	100.1 ppm	± 0.3 ppm
Sn	100.2 ppm	± 0.2 ppm
Zn	100.3 ppm	± 0.1 ppm

(ppm m/v = mg/L)

*Not UKAS Accredited.

Calibrations marked 'Not UKAS Accredited' in this Certificate have been included for completeness.

Approved Signatory:

Dr Robert M Lenk
CChem MRSC

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Printed from a master computer file which has been authorised by the signatory.

This certificate is issued in accordance with the laboratory accreditation requirements to ISO 17025 of the United Kingdom Accreditation Service (UKAS). It provides SI-traceability of measurement to the mole realised by a PrimAg primary silver reference material, also to recognised national standards, and to units of measurement realised at the National Physical Laboratory or other recognised national standards laboratories. UKAS is one of the signatories to the Multilateral Agreement of the European co-operation for Accreditation (EA) as well as the International Laboratory Accreditation Cooperation (ILAC) Arrangement for the mutual recognition of calibration certificates issued by accredited laboratories. This certificate may not be reproduced other than in full, except with the prior written approval of ROMIL Ltd. PrimAg is a registered trademark of ROMIL Ltd.