United Kingdom Accreditation Service

ACCREDITATION CERTIFICATE

UKAS
UNITED KINGDOM ACCREDITATION SERVICE

CALIBRATION LABORATORY
No. 0658

Romil Ltd

is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005
General Requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope as detailed in and at the locations specified in the schedule to this certificate, and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated 18 June 2005).

The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued by the United Kingdom Accreditation Service. The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from the UKAS website www.ukas.org.

This Accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements. The absence of a schedule on the UKAS website indicates that the accreditation is no longer in force.

R Bellamy

Accreditation Manager, United Kingdom Accreditation Service

Initial Accreditation date
25 June 2002

This certificate issued on
04 January 2006

The Department of Trade and Industry (DTI) has entered into a memorandum of understanding with the United Kingdom Accreditation Service (UKAS) through which UKAS is recognised as the national body responsible for assessing and accrediting the competence of organisations in the fields of calibration, testing, inspection and certification of systems, products and personnel

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

0658

Accredited to ISO/IEC 17025:2005

Romil Ltd

Issue No: 010 **Issue date:** 21 September 2009

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Calibration performed at the above address only

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty (*k*=2)	Remarks
CONCENTRATION OF ELEMENT REFERENCE SOLUTIONS			Uncertainty data relates to 1000 mg/l and 10 000 mg/l solutions. Other custom made concentrations may have different uncertainties.
Mono element reference solutions (PrimAg ® plus and extra) Silver Aluminium Arsenic Boron Barium Bismuth Calcium Cadmium Cobalt Chromium (VI) Copper Iron Gallium Mercury Indium Potassium Lithium Magnesium Manganese Molybdenum Sodium Nickel Lead Sulphur Antimony Scandium Selenium Strontium Tin Vanadium Yytrium Zinc	All in range 0.01-10 000 mg/l at 20 °C	All within 0.3% of certified value	

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty (k=2)	Remarks
CONCENTRATION OF ELEMENT REFERENCE SOLUTIONS			Uncertainty data relates to 1000 mg/l and 10 000 mg/l solutions. Other custom made concentrations may have different uncertainties.
Mono element reference solutions (PrimAg ® plus and extra) Cerium Chromium (III) Lanthanum Phosphorous	All in range 0.01-10 000 mg/l at 20 °C	All within 0.4% of certified value	
Mono element reference solutions (PrimAg ® plus and extra)	All in range 0.01-10 000mg/l at 20 °C	Inidividual best measurement capabilities listed below	
Aluminium		0.11%	
Dysprosium		0.12%	
Erbium		0.11%	
Europium		0.11%	
Gadolinium		0.12%	
Holmium		0.080%	
Lutetium		0.12%	
Neodymium		0.087%	
Praesodymium		0.086%	
Samarium		0.12%	
Terbium		0.088%	
Thulium		0.082%	
Ytterbium		0.084%	
Zirconium		0.12%	
Multi element reference solutions (PrimAg ® plus) Silver Aluminium Arsenic Boron Barium Bismuth Calcium Cadmium Cobalt Cerium Chromium (III) Chromium (VI) Copper Iron Gallium Mercury (not in presence of Al) Indium Potassium Lanthanum Lithium Magnesium Manganese Molybdenum Sodium	All in range 0.01-10 000 mg/l at 20 °C each component	All within 1% of certified value	

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty (k=2)	Remarks
CONCENTRATION OF ELEMENT REFERENCE SOLUTIONS			Uncertainty data relates to 1000 mg/l and 10 000 mg/l solutions. Other custom made concentrations may have different uncertainties.
Multi element reference solutions (PrimAg ® plus) (cont'd) Nickel Phosphorous Lead Sulphur Antimony Scandium Selenium Strontium Tin Vanadium Yytrium Zinc Aluminium Dysprosium Erbium Europium Gadolinium Holmium Lutetium Neodymium Praesodymium Samarium Terbium Thulium Ytterbium Zirconium			
Mercury (in presence of Al)		Within 1% of certified value	
CONCENTRATION OF ION REFERENCE SOLUTIONS			Uncertainty data relates to 1000 mg/l and 10 000 mg/l solutions. Other custom made concentrations may have different uncertainties.
Mono ion reference solutions (PrimAg ® plus) Bromide Chloride Iodide Ammonia Ammonia-Nitrogen Ammonium Ammonium-Nitrogen Sulphate Sulphate-Sulphur Fluoride	All in range 0.01-10 000 mg/l at 20 °C	All within 0.3% of certified value	

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Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty (k=2)	Remarks
CONCENTRATION OF ION REFERENCE SOLUTIONS			Uncertainty data relates to 1000 mg/l and 10 000 mg/l solutions. Other custom made concentrations may have different uncertainties.
Mono ion reference solutions (PrimAg ® plus) Phosphate Phosphate-Phosphorous	All in range 0.01-10 000 mg/l at 20 °C	All within 0.4% of certified value	
Multi ion reference solutions (PrimAg ® plus) Bromide Chloride Iodide Ammonia Ammonia-Nitrogen Ammonium Ammonium-Nitrogen Phosphate Phosphate-Phosphorous Sulphate Sulphate-Sulphur	All in range 0.01-10 000 mg/l at 20 °C each component	All within 1% of certified value	
ASSAY OF STOICHIOMETRIC REFERENCE MATERIALS (PrimAg ® plus) Calcium Carbonate Iodine Potassium Dichromate Potassium Hydrogen Pthalate Potassium Iodate Potassium Iodide Sodium Carbonate Sodium Chloride Sulphamic Acid Arsenic Trioxide Benzoic Acid Sodium Oxalate	All in range >99.8% and <100.2%	Within 0.2% of certified value	
ASSAY OF STOICHIOMETRIC REFERENCE MATERIALS			
Potassium Bromide	In range >99.8% and <100.2%	Within 0.3% of certified value	
EDTA di-sodium salt $2H_2O$	In range >99.5% and <100.5%	Within 0.2% of certified value	

END