


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0658</b></p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<p><b>Romil Ltd</b></p> <p>Issue No: 011    Issue date: 05 July 2010</p>	
	<p><b>The Source</b> Convent Drive Waterbeach Cambridge CB25 9QT</p>	<p><b>Contact: Dr R Lenk</b> Tel: +44 (0)1223 863873 Fax: +44 (0)1223 862700 E-Mail: <a href="mailto:pure.chemistry@romil.com">pure.chemistry@romil.com</a> Website: <a href="http://www.romil.com">www.romil.com</a></p>
<p><b>Calibration performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ( $k = 2$ )	Remarks
CONCENTRATION OF ELEMENT	REFERENCE SOLUTIONS		
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 Yttrium Zinc	All in range 0.01 mg/l to 10 000 mg/l at 20 °C	All 0.30 % of certified value	Uncertainty data relates to 1000 mg/l and 10 000 mg/l solutions. Other custom made concentrations may have different uncertainties.



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CONCENTRATION OF ELEMENT	REFERENCE SOLUTIONS		
Mono element reference solutions (PrimAg ® plus and extra) Cerium Chromium (III) Lanthanum Phosphorous	All in range 0.01 mg/l to 10 000 mg/l at 20 °C	All 0.40 % of certified value	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) Aluminium Dysprosium Erbium Europium Gadolinium Holmium Lutetium Neodymium Praesodymium Samarium Terbium Thulium Ytterbium Zirconium	All in range 0.01 to 10 000 mg/l at 20 °C	Individual CMCs listed below  0.11 % 0.12 % 0.11 % 0.11 % 0.12 % 0.12 % 0.080 % 0.12 % 0.087 % 0.086 % 0.12 % 0.088 % 0.082 % 0.084 % 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 Nickel Phosphorous Lead	All in range 0.01 mg/l to 10 000 mg/l at 20 °C each component	All 1.0 % of certified value	



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CONCENTRATION OF ELEMENT	REFERENCE SOLUTIONS		
Multi element reference solutions (PrimAg® plus) (cont'd)	All in range 0.01 mg/l to 10 000 mg/l at 20 °C each component	All 1.0 % of certified value	
Sulphur Antimony Scandium Selenium Strontium Tin Vanadium Yttrium Zinc Aluminium Dysprosium Erbium Europium Gadolinium Holmium Lutetium Neodymium Praesodymium Samarium Terbium Thulium Ytterbium Zirconium			
Mercury (in presence of Al)		1.0 % of certified value	
CONCENTRATION OF ION	REFERENCE SOLUTIONS		
Mono ion reference solutions (PrimAg® plus)	All in range 0.01 mg/l to 10 000 mg/l at 20 °C	All 0.30 % of certified value	Uncertainty data relates to 1000 mg/l and 10 000 mg/l solutions. Other custom made concentrations may have different uncertainties.
Bromide Chloride Iodide Ammonia Ammonia-Nitrogen Ammonium Ammonium-Nitrogen Sulphate Sulphate-Sulphur Fluoride			



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<b>CONCENTRATION OF ION REFERENCE SOLUTIONS</b>			
Mono ion reference solutions (PrimAg® plus) Phosphate Phosphate-Phosphorous	All in range 0.01 mg/l to 10 000 mg/l at 20 °C	All 0.40 % of certified value	Uncertainty data relates to 1000 mg/l and 10 000 mg/l solutions. Other custom made concentrations may have different uncertainties.
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 mg/l to 10 000 mg/l at 20 °C each component.	All 1.0 % of certified value	
<b>ASSAY OF STOICHIOMETRIC REFERENCE MATERIALS</b> (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 %	0.20 % of certified value	
<b>ASSAY OF STOICHIOMETRIC REFERENCE MATERIALS</b>			
Potassium Bromide	In range > 99.8 % and < 100.2 %	0.30 % of certified value	
EDTA di-sodium salt 2H <sub>2</sub> O	In range > 99.5 % and < 100.5 %	0.20 % of certified value	
END			