


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

|  |   |  |
|--|---|--|
| <br><b>Accredited to<br/>ISO 17034:2016</b> | <b>ROMIL Ltd</b><br><br><b>Issue No: 014   Issue date: 12 May 2025</b>    |  |
|  | <b>The Source</b><br>Convent Drive<br>Waterbeach<br>Cambridge<br>CB25 9QT | <b>Contact: Dr R Lenk</b><br><b>Tel: +44 (0)1223 863873</b><br><b>Fax: +44 (0)1223 862700</b><br><b>E-Mail: <a href="mailto:pure.chemistry@romil.com">pure.chemistry@romil.com</a></b><br><b>Website: <a href="http://www.romil.com">www.romil.com</a></b> |
| <b>Reference material production at the above address</b>  |   |  |

### Flexible Scope

The reference material producer is recognised as competent to modify, develop and produce any reference material within the scope of the areas of competence covered by the general scope, and according to and described in the controlled company confidential procedures. The exhaustive list of reference materials covered under accreditation is maintained by, and available from, the reference material producer.

Information about flexible scopes of accreditation is available in UKAS document GEN 4.



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Reference material certification performed at main address only

DETAIL OF ACCREDITATION

| Matrix / Artefact  | Property Value(s) / Identity / Characterisation Range | Characterisation Procedure / Technique                              | Type* (CRM / RM) |
|--|---|---|------------------|
| <b>MONO AND MULTI ELEMENT REFERENCE SOLUTIONS</b><br><br>Aluminium<br>Antimony<br>Arsenic<br>Arsenic (III)<br>Arsenic (V)<br>Barium<br>Bismuth<br>Boron<br>Carbon<br>Cadmium<br>Caesium<br>Calcium<br>Cerium<br>Chromium(III)<br>Chromium(VI)<br>Cobalt<br>Copper<br>Dysprosium<br>Erbium<br>Europium<br>Gadolinium<br>Gallium<br>Germanium<br>Gold<br>Hafnium<br>Holmium<br>Indium<br>Iron<br>Lanthanum<br>Lead<br>Lithium<br>Lithium-6<br>Lutetium<br>Magnesium<br>Manganese<br>Mercury<br>Molybdenum<br>Neodymium<br>Nickel<br>Niobium<br>Palladium | Concentration 0.001 mg/l to 50 000 mg/l at 20°C       | Measurement for each by a single primary definitive method at ROMIL | CRM              |



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|---|---|---|------------------|
| <b>MONO AND MULTI ELEMENT REFERENCE SOLUTIONS (cont'd)</b><br><br>Phosphorus<br>Platinum<br>Potassium<br>Praseodymium<br>Rhenium<br>Rubidium<br>Samarium<br>Scandium<br>Selenium<br>Silicon<br>Silver<br>Sodium<br>Strontium<br>Sulphur<br>Tantalum<br>Tellurium<br>Terbium<br>Thallium<br>Thorium<br>Thulium<br>Tin<br>Titanium<br>Vanadium<br>Ytterbium<br>Yttrium<br>Zinc<br>Zirconium | Concentration 0.001 mg/l to 50 000 mg/l at 20°C                           | Measurement for each by a single primary definitive method at ROMIL | CRM              |
| Other Elements (The organisation holds a flexible scope for characterisation of suitable materials)   | Range determination is part of the certification under the flexible scope | Measurement for each by a single primary definitive method at ROMIL | CRM              |



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| <b>MONO AND MULTI ION REFERENCE SOLUTIONS</b><br><br>Acetate<br>Adipate<br>Ammonia<br>Ammonia-N<br>Ammonium<br>Ammonium-N<br>Benzoate<br>Bromate<br>Bromide<br>Butyrate<br>iso-Butyrate<br>Carbonate<br>Chlorate<br>Chloride<br>Chromate<br>Cinnamate<br>Citrate<br>Cyanide<br>Dichromate<br>Fluoride<br>Formate<br>Glutarate<br>Glycolate<br>Iodate<br>Iodide<br>Lactate<br>Malate<br>Maleate<br>Malonate<br>Methanesulphonate<br>Nitrate<br>Nitrate-N<br>Nitrite<br>Nitrite-N<br>Oxalate<br>Perchlorate<br>Phosphate<br>Phosphate-P<br>Phthalate<br>Pivalate<br>Propionate<br>Silica | Concentration 0.001 mg/l to 50 000 mg/l at 20°C       | Measurement for each by a single primary definitive method at ROMIL | CRM              |



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|---|---|---|------------------|
| MONO AND MULTI ION<br>REFERENCE SOLUTIONS<br>(cont'd)   | Concentration 0.001 mg/l to<br>50 000 mg/l at 20°C                              | Measurement for each by a<br>single primary definitive<br>method          | CRM              |
| Succinate<br>Sulphate<br>Sulphate-S<br>Sulphide<br>Tartrate<br>Thiocyanate  |   |   |                  |
| Chlorite  | Concentration 0.001 mg/l to<br>50 000 mg/l at 20°C                              | Measurement by IC   | CRM              |
| Other Ions (The organisation<br>holds a flexible scope for<br>characterisation of suitable<br>materials)  | Range determination is part<br>of the certification under the<br>flexible scope | Measurement for each by a<br>single primary definitive<br>method at ROMIL | CRM              |
| Reference Solutions and<br>Liquids with Density<br>Properties   | Range 0.85g/ml to 1.62g/ml<br>at 20°C   | Measurement by single<br>primary method at ROMIL                          | CRM              |
| STOICHIOMETRIC<br>REFERENCE MATERIALS   | Assay (%m/m)  | Measurement for each by a<br>single primary definitive<br>method at ROMIL | CRM              |
| Ammonium Cerium(IV)<br>Nitrate<br>Ammonium Cerium(IV)<br>Sulphate 2H <sub>2</sub> O<br>Arsenic Trioxide<br>Benzoic Acid<br>Calcium Carbonate<br>EDTA di-Sodium salt 2H <sub>2</sub> O<br>Oxalic Acid 2H <sub>2</sub> O<br>Potassium Bromide<br>Potassium Chloride<br>Potassium Dichromate<br>Potassium di-Hydrogen<br>Phosphate<br>Potassium Hydrogen<br>Phthalate<br>Potassium Iodate<br>Potassium Iodide<br>Sodium Carbonate<br>Sodium Chloride |   |   |                  |



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| STOICHIOMETRIC REFERENCE MATERIALS (cont'd)  | Assay (%m/m)  | Measurement for each by a single primary definitive method at ROMIL | CRM              |
| Sodium Dodecyl Sulphate<br>Sodium Oxalate<br>Sulphamic Acid<br>Tris(hydroxymethyl)methyl amine<br>Zinc   |   |   |                  |
| Other Stoichiometric Reference Materials (The organisation holds a flexible scope for the characterisation of suitable materials)  | Assay (%m/m)  | Measurement for each by a single primary definitive method at ROMIL | CRM              |
| Bound Nitrogen reference solution<br>Cyanide-complex reference solution<br>Silica reference solution<br>Total Inorganic Carbon reference solution<br>Total Organic Carbon reference solution | Concentration 0.001 mg/l to 50 000 mg/l at 20°C   | Measurement for each by a single primary definitive method at ROMIL | CRM              |
| Other Reference Solutions (The organisation holds a flexible scope for the characterisation of suitable materials)   | Range determination is part of the certification under the flexible scope                     | Measurement for each by a single primary definitive method at ROMIL | CRM              |
| Holmium<br>UV/Vis reference solution   | Wavelength at 241.1nm, 278.0nm, 287.5nm, 361.2nm, 416.6nm, 451.3nm, 485.3nm, 537.0nm, 640.8nm | Measurement by a single primary definitive method at ROMIL          | CRM              |
| Potassium Dichromate<br>UV/Vis reference solutions   | Absorbance at 235nm, 257nm, 313nm, 350nm  | Measurement by a single primary definitive method at ROMIL          | CRM              |



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| STOICHIOMETRIC<br>REFERENCE MATERIALS<br>(cont'd)   |  |  |                  |
| Other UV/VIS Reference Solutions (The organisation holds a flexible scope for the characterisation of suitable materials)       | Absorbances are part of the certification under the flexible scope                                   | Measurement for each by a single primary definitive method at ROMIL                  | CRM              |
| Alkalinity reference solution   | Concentration 0.001 mg/l to 50 000 mg/l at 20°C  | Measurement by a single primary definitive method at ROMIL                           | CRM              |
| CONDUCTIVITY<br>REFERENCE SOLUTIONS   |  |  |                  |
| Potassium Chloride solutions  | Electrical conductivity at 25°C<br>84 µS/cm, 147µS/cm, 1408µS/cm, 1413µS/cm, 12880µS/cm, 111342µS/cm | Measurement by a single primary definitive method at ROMIL (electrical conductivity) | CRM              |
| Potassium Chloride solutions  | Measured electrical Conductivity at 25°C<br>50-100 000 µS/cm   | Measurement by a single Definitive method at ROMIL (electrical conductivity)         | CRM              |
| Other Conductivity Reference Solutions (The organisation holds a flexible scope for the characterisation of suitable materials) | Range determination is part of the certification under the flexible scope                            | Measurement for each by a single primary definitive method at ROMIL                  | CRM              |
| COLOUR REFERENCE<br>SOLUTIONS   |  |  |                  |
| Platinum-Cobalt solution  | Colour value 500 Pt-Co units   | Measurement by a single primary definitive method at ROMIL                           | CRM              |
| Other Colour Reference Solutions (The organisation holds a flexible scope for the characterisation of suitable materials)       | Range determination is part of the certification under the flexible scope                            | Measurement for each by a single primary definitive method at ROMIL                  | CRM              |



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| <p>TRACEABLE VOLUMETRIC REAGENTS</p> <p>Acetic Acid<br/>Ammonia (organic solution)<br/>Ammonium Hydroxide<br/>Ammonium Thiocyanate<br/>Barium Hydroxide<br/>Calcium Chloride<br/>Cerium(IV) Sulphate<br/>Dodecylbenzenesulphonic Acid<br/>EDTA di-Sodium salt<br/>Hyamine<br/>Hydrochloric Acid<br/>Hydrofluoric Acid<br/>Iodine<br/>Nitric Acid<br/>Oxalic Acid<br/>Perchloric Acid (organic solution)<br/>Potassium Bromate/Bromide<br/>Potassium Chloride<br/>Potassium Dichromate<br/>Potassium Hydroxide (aqueous)<br/>Potassium Hydroxide (organic solution)<br/>Potassium Iodate<br/>Potassium Iodate/Iodide<br/>Potassium Methoxide<br/>Potassium Permanganate<br/>Potassium Thiocyanate<br/>Silver Nitrate<br/>Sodium Arsenite<br/>Sodium Carbonate<br/>Sodium Chloride<br/>Sodium Dodecyl Sulphate<br/>Sodium Hydroxide<br/>Sodium Thiosulphate<br/>Sulphuric Acid<br/>Zinc Acetate</p> | <p>Concentration Expressed as Molarity at 20°C</p>    | <p>Measurement for each by a single primary definitive method at ROMIL</p> | <p>CRM</p>       |





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| TRACEABLE VOLUMETRIC REAGENTS (cont'd)<br><br>Other volumetric reagents<br>(The organisation holds a flexible scope for the certification of suitable materials) | Concentration Expressed as Molarity at 20°C           | Measurement for each by a single primary definitive method at ROMIL | CRM              |
| END  |   |   |                  |

**\*Type**

CRM = Certified Reference Material(s)

RM = Reference Material(s)

Refer to ISO 17034 for full definitions