


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>4005</p> <p>Accredited to ISO Guide 34:2009</p>	<b>LGC Ltd</b>	
	Issue No: 005	Issue date: 25 October 2011
	Queens Road Teddington Middlesex TW11 0LY	Contact: Ms Surrinder Johal Tel: + 44 (0)20 8943 7436 Fax: + 44 (0)20 8943 7314 E-Mail: <a href="mailto:surrinder.johal@lgc.co.uk">surrinder.johal@lgc.co.uk</a> Website: <a href="http://www.lgc.co.uk">www.lgc.co.uk</a>
<b>Reference material production at the above address</b>		

### DETAIL OF ACCREDITATION

Matrix / Artefact	Property Value(s) / Identity / Characterisation Range	Characterisation Procedure / Technique
<u>Special Alloys</u>		
Auto Catalysts	Pt - trace to % levels Pd - trace to % levels Rh - trace to % levels	Measurement by a single, primary, definitive method at LGC (ICP-IDMS)
<u>Pure Organic Compounds</u>		
Organic Chemicals	Purity (% m/m)	Measurement by two or more independent reference methods at LGC. Methods selected from DSC, HPLC, GC-FID, GC-MS, Titration, plus Karl Fischer (volumetric and Coulometric).
	Melting Point (30-300 °C)	Measurement by a single, primary, definitive method at an NMI laboratory (Contact Thermometry)
	Flash Point (20-60 °C)	Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy
Calibration Solutions	Polychlorinated Biphenyls	Measurement by a single, primary, definitive method at LGC (GC-IDMS) And/or Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy



4005

Accredited to  
ISO Guide 34:2009

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**LGC Ltd**

**Issue No:** 005    **Issue date:** 25 October 2011

Reference material production performed at main address only

Matrix / Artefact	Property Value(s) / Identity / Characterisation Range	Characterisation Procedure / Technique
<p><u>Foodstuffs</u></p> <p>Alcoholic Beverages (wines, spirits, lagers)</p> <p>Basic and Composite Foods Including: Meats and Meat Products Dairy Products Bread and Bakery Products Cereals and Cereal Products Confectionery Soft Drinks Dried Food Products Fruit and Vegetable Products Dry vegetation Animal Feeds</p> <p>Meats</p> <p>Food Supplements</p> <p>Herbal Medicines</p>	<p>Alcoholic Strength (%ABV)</p> <p>Congeners</p> <p>Elements Proximates Additives, contaminants and preservatives including: Sugars Sulfur Dioxide Artificial Colours Antioxidants Sweeteners Degrees Brix Refractive Index</p> <p>Species Identification</p> <p>Selenium (Content and Speciation)</p> <p>Organics</p>	<p>Measurement by a single, primary, definitive method at LGC laboratory (pycnometry) and: Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p> <p>Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p> <p>Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p> <p>Measurement in a single laboratory, using a variety of methods of demonstrable accuracy (DNA, Elisa and reputable source)</p> <p>Measurement by a single, primary, definitive method at LGC (HPLC-IDMS and GC-IDMS)</p> <p>Measurement by a single, primary, definitive method at LGC (HPLC-IDMS and GC-IDMS) and measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p>



4005

Accredited to  
ISO Guide 34:2009

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**LGC Ltd**

**Issue No:** 005    **Issue date:** 25 October 2011

Reference material production performed at main address only

Matrix / Artefact	Property Value(s) / Identity / Characterisation Range	Characterisation Procedure / Technique
<p><u>Foodstuffs</u> (cont'd)</p> <p>Herbal Medicines (cont'd)</p>	<p>Inorganics</p>	<p>Measurement by a single, primary, definitive method at LGC (ICP-IDMS) and measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p>
<p><u>Petroleum Products</u></p> <p>Diesel and Gasoline</p>	<p>Sulfur (Trace to % Levels)</p>	<p>Measurement by a single, primary, definitive method at LGC (ICP-IDMS)</p>
<p><u>Soils, Sludges and Sediments</u></p> <p>Soils, Sludges, Sediments</p>	<p>Inorganics (Trace to % Levels)</p> <p>Organics (Trace to % Levels)</p>	<p>Measurement by a single, primary, definitive method at LGC (ICP-IDMS) And/or Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p> <p>Measurement by a single, primary, definitive method at LGC (GC-IDMS, HPLC-IDMS) And/or Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p>
<p>Gypsum material</p>	<p>Inorganics (Trace to % Levels)</p>	<p>Measurement by a single, primary, definitive method at LGC (ICP-IDMS) And/or Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p>



4005

Accredited to  
ISO Guide 34:2009

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**LGC Ltd**

**Issue No:** 005    **Issue date:** 25 October 2011

Reference material production performed at main address only

Matrix / Artefact	Property Value(s) / Identity / Characterisation Range	Characterisation Procedure / Technique
<u>Ashes</u>  Fuel Ash	Inorganics (Trace to % Levels)	Measurement by a single, primary, definitive method at LGC (ICP-IDMS) And/or Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy
<u>Waters</u>  Drinking Water, River Water, Estuarine Water, Rain Water, Leachates	Elements (Trace to % Levels)	Measurement by a single, primary, definitive method at LGC (ICP-IDMS) And/or Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy
<u>Clinical Laboratory Materials</u>  Whole Blood  Serum	Anions (Trace to % Levels)  Ethanol (mg/100ml)  Electrolytes and elements (Li, Na, K, Ca, Mg)	Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy  Measurement by a single, primary, definitive method at LGC (GC-C-ID-IRMS)  Measurement by a single, primary, definitive method at LGC (ICP-IDMS) And/or Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy



4005

Accredited to  
ISO Guide 34:2009

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**LGC Ltd**

**Issue No:** 005    **Issue date:** 25 October 2011

Reference material production performed at main address only

Matrix / Artefact	Property Value(s) / Identity / Characterisation Range	Characterisation Procedure / Technique
<p><u>Clinical Laboratory Materials</u> (cont' d)</p> <p>Whole Blood &amp; Serum</p> <p><u>Drugs of Abuse in Urine</u></p> <p>Freeze Dried Urine</p> <p><u>Ethanol Reference Standards</u></p> <p>Forensic Ethanol Solutions</p> <p>Ethanol/Water Reference Spirits</p>	<p>Organics (including creatinine, testosterone and digoxin)</p> <p>Drugs of Abuse</p> <p>Ethanol (mg/100ml)</p> <p>Density (kg/m<sup>3</sup>)</p> <p>Alcoholic Strength (%ABV)</p>	<p>Measurement by a single, primary, definitive method at LGC (GC-IDMS and LC- IDMS) And/or Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p> <p>Measurement by a single, primary, definitive method at LGC (GC-IDMS) And/or Measurement by a network of qualified laboratories using a variety of methods of demonstrable accuracy</p> <p>Measurement by a single, primary, definitive method at LGC (GC-C-ID-IRMS and/or Potassium Dichromate Titration)</p> <p>Measurement by a single, primary, definitive method at LGC (Pycnometry)</p> <p>Taken to be the % alcohol by volume corresponding to that density from the Official Laboratory Alcohol Table (RDC80/267/04), Issued under the authority of the UK HM Customs &amp; Excise</p>



4005

Accredited to  
ISO Guide 34:2009

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**LGC Ltd**

**Issue No:** 005    **Issue date:** 25 October 2011

Reference material production performed at main address only

Matrix / Artefact	Property Value(s) / Identity / Characterisation Range	Characterisation Procedure / Technique
<u>Optical Properties</u> UV/Vis Cuvettes and Solutions	Wavelength and Absorbance	Measurement by a single, primary, definitive method in a single laboratory
IR Cuvettes and Solutions	Wavelength	Measurement by a single, primary, definitive method in a single laboratory
	END	