All your NMI produced reference materials from a single source

ISO 15189 and ISO/IEC 17025 laboratories • Food safety and authenticity • Clinical diagnostics • Environmental testing • Physical properties • Elemental analysis • Forensic
Did you know that LGC supplies (certified) reference materials produced by multiple National Measurement Institutes (NMI) from various countries in the world? Ordering all your NMI produced reference materials from a single source will save you time and reduce your paperwork as you process one order and one invoice.

Your benefits when ordering with LGC:

- Supplier of more than 10 global NMI
- Leading expertise: LGC is the only supplier with its own UK NMI role
- Order hassle free with only one shipment and invoice
- Technical support by our local experts

About LGC

We are a global leader in the production and distribution of reference materials for various markets such as food, environmental, oil and metals, clinical and forensic. We operate globally offering you a huge portfolio of products supported by our technical experts in many local languages.

LGC is home to the UK NMI for chemical and bio measurement

With a history dating back to 1842, LGC has been home to the UK Government Chemist for more than 100 years and is the UK National Measurement Laboratory and Designated Institute for chemical and bio-measurement. LGC therefore has vast experience in the production of highly characterised and fully traceable (certified) reference materials.

Co-founder of the ERM®

LGC is also a founder member of the European Reference Material (ERM®) co-operation established in 2004. ERM® members commit themselves to use the most advanced principles for the production of certified reference materials and to provide certified values with clearly defined and stated traceability.
What are National Measurement Institutes?

Good measurement helps save lives, protects the environment, underpins consumer confidence and promotes trade.

NMI are responsible for maintaining a country’s units and standards of measurement.

They also invest a significant amount of time and technical expertise to develop and produce reference materials. This often uses state-of-the-art measurement methods and instrumentation that underpin complex and difficult measurements.

Typically these reference materials are designed to be directly traceable to the Système Internationale d’Unités (SI) and come with a low underlying uncertainty value. The diagram below shows how analytical uncertainty increases as it moves down the reference material hierarchy and highlights the quality of NMI produced reference materials.

Who should use NMI produced reference materials and why?
Analytical laboratories should use NMI produced reference materials for method validation. They should be used to help ensure accuracy and consistency of measurement both locally and globally. These materials can help laboratories achieve ISO 15189 and ISO/IEC 17025 accreditation by demonstrating method traceability and measurement of uncertainty.

Manufacturers of test kits, calibrators and analytical equipment should also use these materials to ensure that their products meet the required specification and customer needs. In some specific areas, such as the IVD directive in Europe the use of NMI produced reference materials (where available) is expected, the use of these materials gives end users confidence in their analytical measurements.
From Arsenic to Zearalanol: LGC offers a broad range of NMI produced reference materials under one roof

Here is just a small selection of our NMI bestsellers:

### Food
- **LGC5100** Whisky – Congeners
- **ERM-BB501** Processed meat – Proximates, chloride, hydroxyproline and metals
- **LGC7240** Horsemeat (1 %) in beef
- **IRMM-801** Cocoa butter – Triglyceride (TG)
- **NIST-1849A** Infant/Adult nutritional powder (milk) – trace elements, proximates and nutrients

### Oils and metals
- **LGC2609** Tin – DSC calibration standard
- **NIST-1766** Low alloy steel
- **BAM-K009** Lubricating oil (type B) (ISO 9377-2, ISO 16703, EN 14039)
- **BAM-K010F** Diesel fuel (type A)
- **BAM-M383C** Pure copper, ø38 x 30 mm

### Clinical and forensics
- **ERM-DA470K/IFCC** Proteins in human serum
- **ERM DA110** Tacrolimus in whole blood
- **ERM DA345 & 346** Testosterone in serum (low and high)
- **NMIAP1802** Beta – Zearalanol
- **NMIJ CRM 6004-A** 17 – Beta – Estradiol

### Environment
- **ERM-CA011** Hard drinking water – Metals
- **NMIJ CRM 7202-B** River water – Trace elements (Elevated level)
- **NIST-1643F** Trace elements in water
- **NRCDSORM-4** Fish protein – Trace elements
- **NRCSLRS-6** River water – Trace elements
Who should use NMI produced reference materials?

ISO 15189 and ISO/IEC 17025 accredited laboratories from the below sectors benefit from using NMI produced reference materials:

<table>
<thead>
<tr>
<th>Food</th>
<th>Environment</th>
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<tbody>
<tr>
<td>Food testing laboratories</td>
<td>Water testing laboratories</td>
</tr>
<tr>
<td>Food and drink manufacturers</td>
<td>Soil testing laboratories</td>
</tr>
<tr>
<td>Nutritional testing</td>
<td>Waste testing laboratories</td>
</tr>
<tr>
<td>Veterinary drugs testing</td>
<td>Air stack testing laboratories</td>
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<tr>
<td></td>
<td>Utility companies</td>
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</tbody>
</table>

<table>
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</thead>
<tbody>
<tr>
<td>Oil manufacturers and formulators</td>
<td>Clinical diagnostic labs</td>
</tr>
<tr>
<td>Additive manufacturers</td>
<td>Forensic laboratories</td>
</tr>
<tr>
<td>Automotive and aviation manufacturers</td>
<td>IVD reagent manufacturers</td>
</tr>
<tr>
<td>Power plants</td>
<td>QC &amp; calibrator manufacturers</td>
</tr>
<tr>
<td>Metal manufacturers</td>
<td>Research and academic labs</td>
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</tbody>
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Don’t waste time shopping around:
Find all NMI products in our webshop at www.lgcstandards.com
For further information, or if you require substances or materials not currently listed please contact one of our local sales offices.

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  Email: bz@lgcstandards.com

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