



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



Get all your NMI produced reference materials from LGC

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.

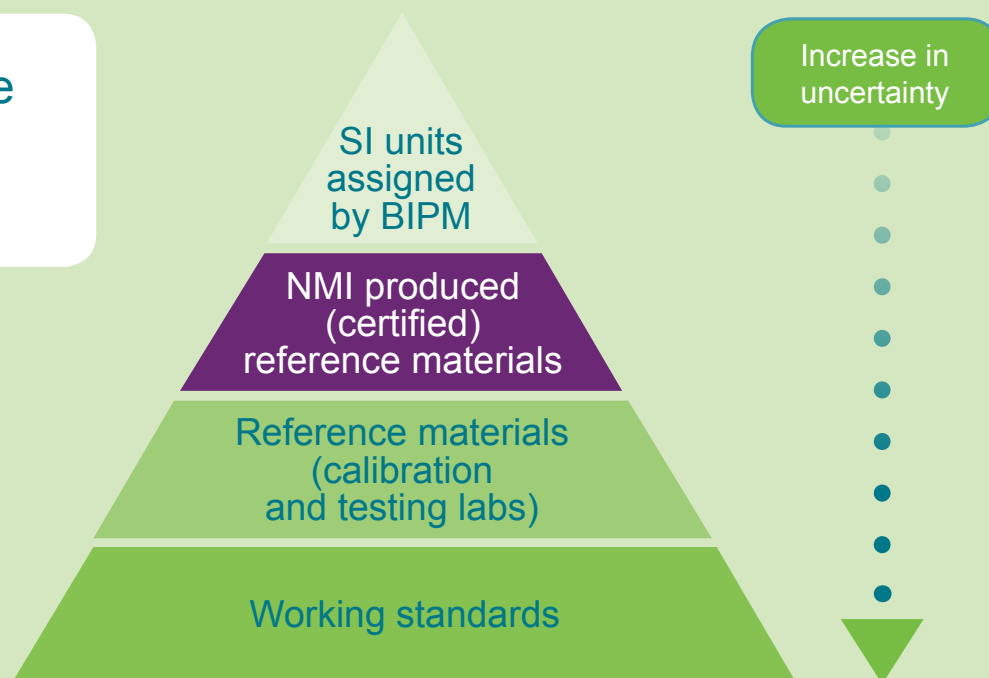
Typically these reference materials are designed to be directly traceable to the Système Internationale d'Unités (SI) and come with a low underlying uncertainty value. The diagram below shows how analytical uncertainty increases as it moves down the reference material hierarchy and highlights the quality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

Reference material hierarchy



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) Lubricating oil (type B)
BAM-M383C	Pure copper, $\varnothing 38 \times 30$ 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
NRCDORM-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:

Food

- Food testing laboratories
- Food and drink manufacturers
- Nutritional testing
- Veterinary drugs testing

Environment

- Water testing laboratories
- Soil testing laboratories
- Waste testing laboratories
- Air stack testing laboratories
- Utility companies

Oils and metals

- Oil manufacturers and formulators
- Additive manufacturers
- Automotive and aviation manufacturers
- Power plants
- Metal manufacturers

Clinical and forensics

- Clinical diagnostic labs
- Forensic laboratories
- IVD reagent manufacturers
- QC & calibrator manufacturers
- Research and academic labs

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.

Brazil

Tel: +55 12 3302 5880
Email: bz@lgcstandards.com

Bulgaria

Tel: +359 (0)2 971 4955
Email: bg@lgcstandards.com

China

Tel: +86 (10)56315129
Email: infochina@lgcgroup.com

France

Tel: +33 (0)3 88 04 82 82
Email: fr@lgcstandards.com

Germany

Tel: +49 (0)281 9887 0
Email: de@lgcstandards.com

Hungary

Tel: +49 (0)281 9887 0
Email: de@lgcstandards.com

Ireland

Tel: +44 (0)20 8943 8480
Email: uksales@lgcstandards.com

Italy

Tel: +39 02 2247 6412
Email: it@lgcstandards.com

Middle East

Tel: +49 (0)281 9887 0
Email: de@lgcstandards.com

Netherlands

Tel: +49 (0)281 9887 0
Email: de@lgcstandards.com

Nordic countries

Tel: +49 (0)281 9887 0
Email: de@lgcstandards.com

Poland

Tel: +48 22 751 31 40
Email: pl@lgcstandards.com

Romania

Tel: +40 364 116890
Email: ro@lgcstandards.com

Russia

Tel: +7 812 7770488
Email: ru@lgcgroup.com

South Africa

Tel: +27 (0)11 466 4321
Email: sales.za@lgcgroup.com

Spain

Tel: +34 (0)93 308 4181
Email: es@lgcstandards.com

Turkey

Tel: +00 90 530 880 33 90
Email: tur@lgcstandards.com

United Kingdom

Tel: +44 (0)20 8943 8480
Email: uksales@lgcstandards.com

USA + Canada

Tel: +1-855-LGC-USA1 (toll-free)
Email: lgcusa@lgcstandards.com

**Browse and buy reference standards online
at www.lgcstandards.com**



www.lgcstandards.com

**Brazil • Bulgaria • China • France • Germany • Hungary • Ireland • Italy • Netherlands
Nordic countries • Poland • Romania • Russia • South Africa • Spain • Turkey • United Kingdom • USA**

All trademarks and registered trademarks mentioned herein are the property of their respective owners. All other trademarks and registered trademarks are the property of LGC and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or any retrieval system, without the written permission of the copyright holder. © LGC Limited, 2016. All rights reserved. 4868/CB/1216