LGC

qmx
A CALIBRE SCIENTIFIC COMPANY

Stable isotope labelled compounds for research and analysis

Precision tools for innovative science

Science for a Safer World

www.qmx.com

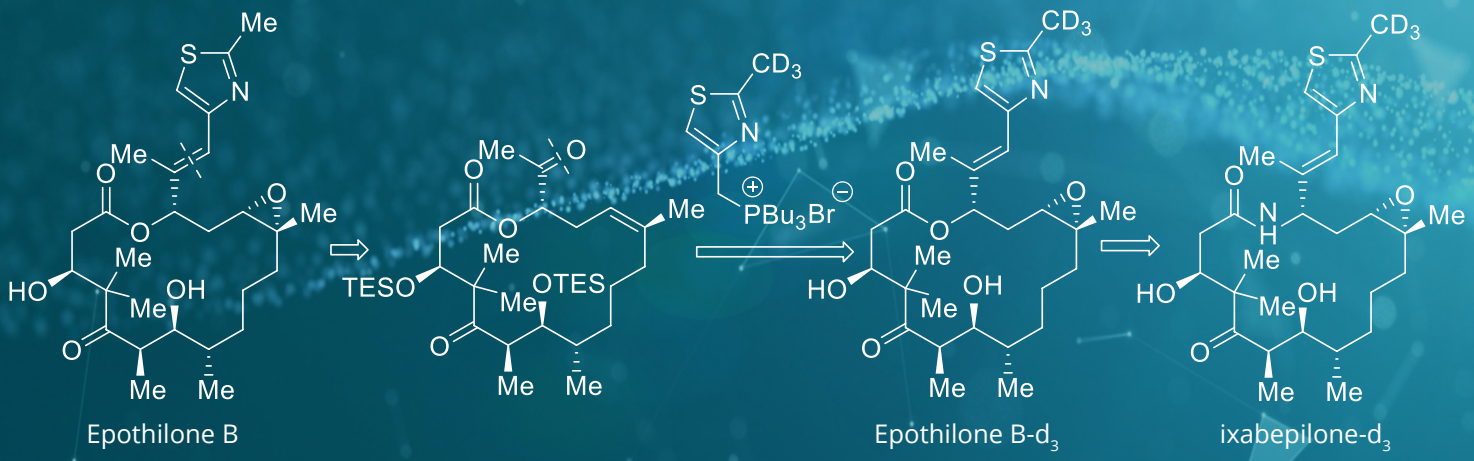
Global leaders in stable isotope labelling

LGC Standards has been at the forefront of stable isotope chemistry for more than four decades, building one of the world's most extensive portfolios with over 20,000 research chemicals and reference standards. From APIs and metabolites to impurities, biomarkers and food and environmental contaminants, our standards underpin critical research, development and testing worldwide. Here we showcase the breadth of our portfolio, the depth of our expertise and the quality formats we offer to support your work.

Specialist support for trace level analysis

We understand the challenges of trace-level detection in complex sample types. Drawing on decades of expertise in stable isotope labelling, we provide bespoke standards – from D and 13C to 15N, 18O and multi-labelled compounds – designed to ensure consistent fragmentation and dependable results in matrices such as serum, plasma, soil and food.

We design novel synthetic routes to deliver the standards you need, such as the synthesis of anti-cancer API standards Epothilone B-d_3 and ixabepilone-d_3 from Epothilone B, using ozonolysis, deoxygenation, Wittig reaction, Pd(0)-catalysed azidation, Staudinger reaction, and macrolactamisation.



Delivering quality in every format

Our trusted brands – TRC, CDN Isotopes, Dr Ehrenstorfer, Lipomed and LoGiCal – work together across our global network to deliver the flexibility you need. From research grade to ISO 17034–accredited materials, and from powders to ready-to-use or multi-analyte solutions, we provide standards in the quality and format that best support your work.

These capabilities are underpinned by TRC's new state-of-the-art 200,000 sq. ft. research and production facility – launched in 2025 to accelerate innovation, expand production capacity and enhance service delivery.

ISO 17034 accredited manufacturers

Products for innovative research and analysis

We help to deliver global scientific innovation via the broadest available range of stable isotope labelled compounds, and a comprehensive synthesis service that provides your laboratory with tailored solutions.

Our product range includes:

APIs	Metabolites	Impurities	Bioactive molecules
Chemical probes	Building block / fragments	Metabolic probes	Biomarkers
Controlled substances	New psychoactive substances	Opiates	Food contaminants
Phytochemicals	PAHs	Pollutants	Pesticides
PFAS	PCBs	Dioxins	VOCs
Personal care	Polymeric materials	Coatings	Energy storage

The LGC Standards family

trc CDN ISOTOPES

Products:

20,000+ stable isotope labelled analytical standards available as neat substances, or ready-to-use solutions. Optional COA upgrade with 100% mass balance.

Sectors:

Life sciences, pharmaceutical, food, environmental, and industrial.

lipomed SERVICES TO HEALTH LoGiCal®

Products:

More than 550 stable isotope labelled reference materials, available as solutions or neat substances. Many are produced to ISO 17034 standards.

Sectors:

Clinical and forensics specialists.

DR EHRENSTORFER™

Products:

500+ stable isotope labelled reference materials, available as neat substances or ready-to-use solutions. Many are produced to ISO 17034 standards.

Sectors:

Food, environmental, and specialised industrial testing.

Expanding innovation: TRC's new state-of-the-art facility

Location:
101 Milani Blvd.,
Vaughan,
Ontario

Facility:
TRC's state-of-the art facility, which became fully operational in 2025 and spans over 200,000 square feet (sq. ft), including:

53,000
sq. ft of production laboratories

10,000
sq. ft of analytical labs

12,000
sq. ft allocated for finished goods

Fostering innovation and collaboration:
Our modern facility attracts top talent, including over 100 PhD- and MSc-qualified scientists, fostering teamwork and creativity to drive innovation.

Efficient operations for faster service:
A streamlined layout and unified workspace improve efficiency, enabling faster delivery times.

Sustainable innovation and superior service:
By integrating green chemistry, advanced technologies, and sustainable practices – including energy-efficient lighting and high-performance glazing – we conserve resources and reduce emissions.

Wider range with more in stock products:
A larger facility and advanced equipment allow us to expand our 100,000+ portfolio and 50,000+ inventory, accelerating development to meet diverse customer needs.

Improved compliance capabilities:
With expanded capacity for managing Health Canada-controlled substances, we can accommodate larger orders with greater flexibility.

“If it can be made, we will make it”

– TRC founder, David Dime

We specialise in producing complex organic small molecules that are not otherwise commercially available.

Where a compound is unavailable on the market, our project planning team of experienced chemists will design optimal synthetic routes for both new and known compounds.

Your three-step custom synthesis solution

Step 1

Consultation:
We will assess the feasibility of the product – including the optimal synthetic route and timeline – and prepare a detailed quote. If feasible, the work can proceed either as an exclusive project for you or be made available more widely. We will keep you closely involved, with regular project updates.

Step 2

Synthesis:
Once the consultation phase is finalised and agreed, synthesis can start. We will share a time frame with you and discuss progress – as well as any troubleshooting.

Step 3

Quality assurance and delivery:
At this stage, your product is almost ready. We will perform all the analysis you require and generate your detailed COA. Your product is now ready to be shipped to you.

Need help with a project? Contact us today

Life science research and drug discovery

Our high-quality stable isotope labelled compounds are essential tools for investigating disease mechanisms and accelerating therapeutic discovery. By enabling precise quantification, metabolism tracking, and toxicity assessment, they support innovation across research and development.

Drug targets

- GPCRs
- Enzymes
- Ion channels
- Nuclear receptors
- Transporters

Therapeutic areas

- Neuroscience
- Cancer research
- Infectious disease
- Cardiovascular research
- The microbiome

From pathway analysis to formulation and safety testing, our products support the full development pipeline – driving reliable data, faster optimisation, and better decisions.

- API standards, analogues, metabolites
- Bioactive molecules
- Impurities and excipients
- Chemical probes
- Building blocks and fragments
- Biomarkers of toxicity, drug-drug interaction and disease
- Metabolic probes (APIs and substrates)

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View range

Pharmaceutical quality control and method development

With advancing technology and evolving regulatory expectations, laboratories face growing pressure to meet higher analytical standards to support product quality.

Our stable isotope labelled compounds help you rise to that challenge – supporting trace-level detection of impurities, correcting for matrix effects, and confirming peak identity. They also enable reliable monitoring of contaminants such as extractables, leachables, and nitrosamines in complex formulations. Whether used in method development or routine analysis, these tools support more accurate and reproducible testing throughout the product lifecycle.

- API standards, metabolites and excipients
- Impurities and process contaminants
- Small molecule nitrosamines and nitrosamine drug substance related impurities
- Extractables and leachables

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View range

Clinical and forensics

Our stable isotope labelled standards support routine testing, as well as the development of sensitive, robust methods for detecting and quantifying analytes in biological matrices – such as blood, plasma, and urine.

These analytes include APIs, metabolites, impurities, clinical biomarkers, and toxic or banned substances – such as drugs of abuse and performance-enhancing compounds.

- API standards, metabolites and impurities
- Metabolic probes (APIs and substrates)
- Clinical biomarkers
- Antiepileptics
- Antipsychotics
- Antibiotics
- Anticancer drugs
- New psychoactive substances
- Sports drugs and steroids
- Cannabinoids
- Smoking-related substances
- Opiates and opioids
- Benzodiazepines
- Cocaine and related materials

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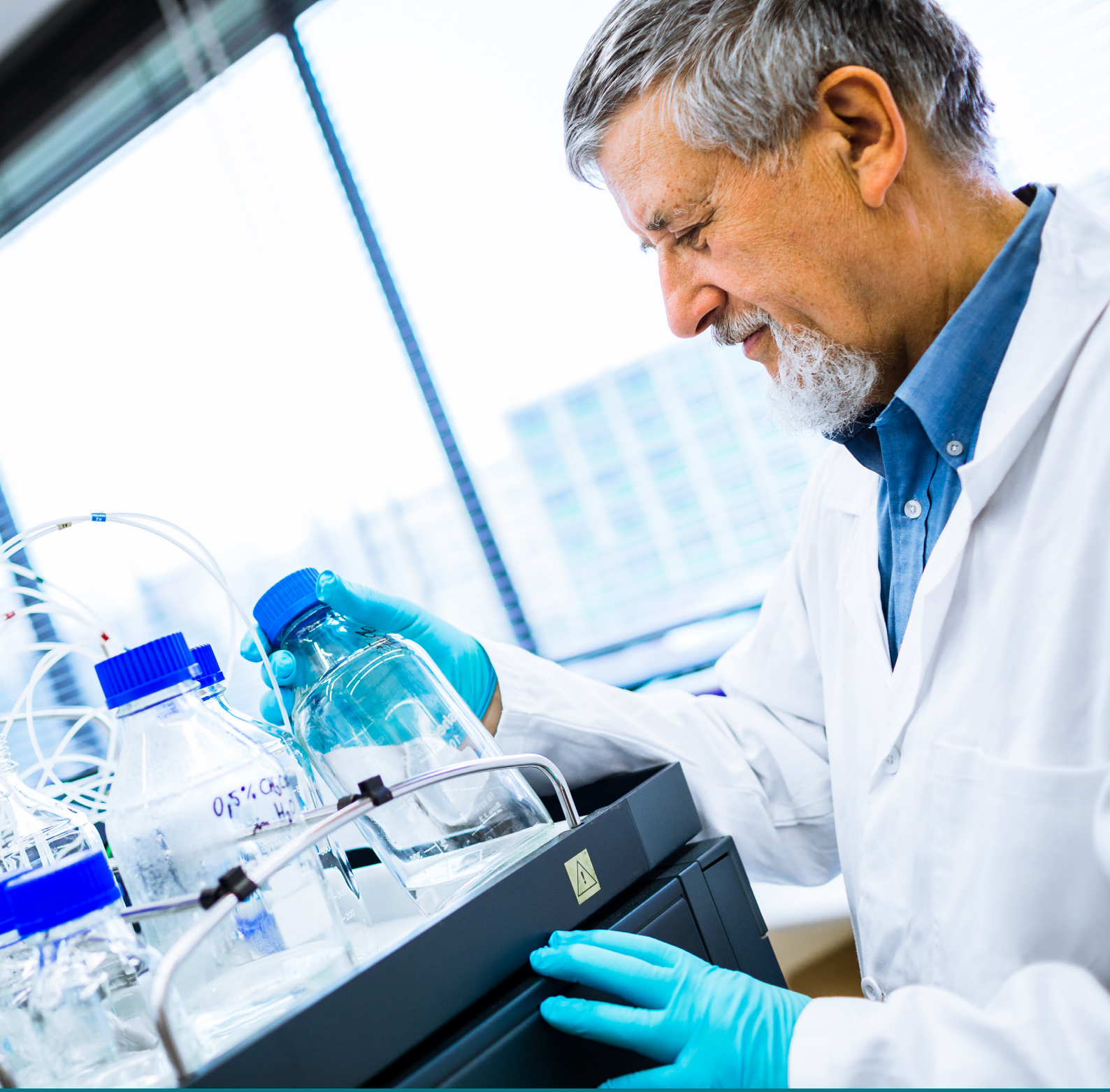
View range



Food and environmental research and analysis

Our comprehensive range of stable isotope labelled reference standards supports research, method development, and regulatory testing across food and environmental applications.

From early-stage studies to routine monitoring, these standards enable accurate identification and quantitation of contaminants and residues in complex matrices – including food products, soil, air, and water – ensuring robust results and regulatory compliance.

- Pesticides and metabolites
- Food contact materials
- Food contaminants
- Perfluoroalkylated Substances (PFAS)
- Pharma/vet compounds and metabolites
- Mycotoxins
- PCBs and related compounds
- Dioxins and furans
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Volatile Organic Compounds (VOCs)

View food range

View environmental range

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Industrial

Whether you're pushing the limits of advanced materials or validating everyday formulations, our stable isotope labelled reference standards deliver the precision you need. From supporting new product development to detecting trace-level contaminants, we help solve complex analytical challenges across sectors including personal care, packaging, polymers, coatings, and energy storage.

Persistent organic pollutants

- PFAS
- PCBs
- Dioxins and furans
- Flame retardants

Industrial contaminants

- PAHs
- VOCs
- Alkylphenols
- Monomers

Plasticisers and additives

- Phthalates
- Bisphenol
- Antioxidants
- UV stabilisers

Battery and e-waste

- Electrolyte additives
- Fluorinated solvents
- Conductive polymers
- Degradation by-products

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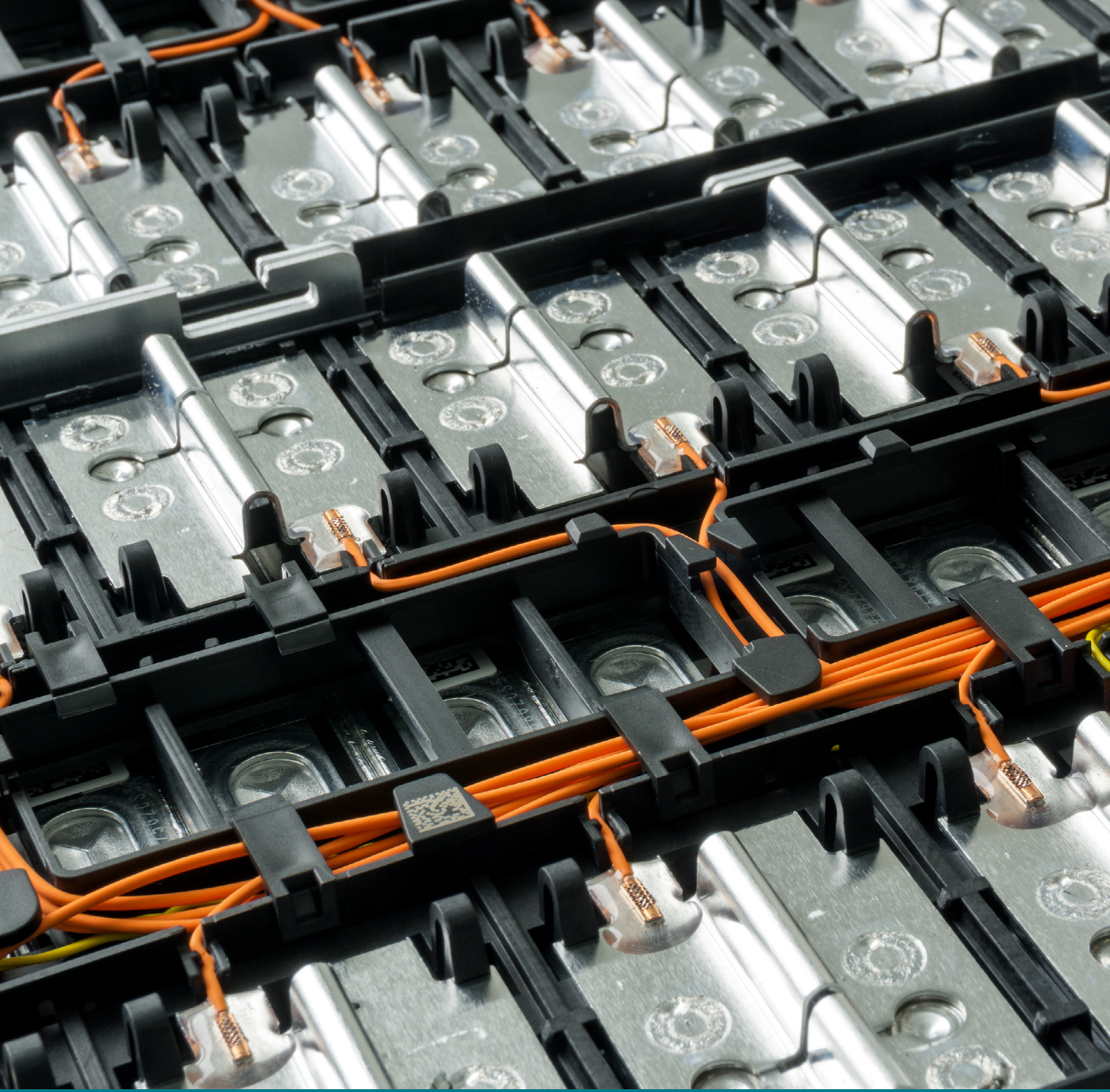
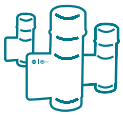
View range



LGC Standards' portfolio: key features and benefits



20,000+

stable isotope labelled products. Search for the product you need on our user-friendly platform.

Global logistics

Competitive lead times and compliant services with international delivery.

Scientific excellence

100+ PhD- and MSc-qualified scientists developing our products.

Custom synthesis

Cost-effective service, manufacturing new compounds for specific customer needs.

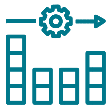
Customer care

Delivering tailored information and technical support.

Diverse range

Providing you with a complete portfolio of frequently used and unique stable isotope labelled compounds.

View range **Speak to an expert**



Multiple quality formats

Across the LGC Standards family, we offer high-purity materials in a range of formats – spanning 100% mass balance, ISO 17034 accreditation, and ready-to-use solutions and mixes for diverse applications.

Low minimum order quantity

Enabling you to order new products cost-effectively.

Varied pack sizes

Offering select sizes to meet your individual requirements.

1224 Lit. No.120099W

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