



CUSTOM-MADE
Ehrenstorfer Quality



SMART SOLUTIONS™ MADE TO MEASURE

Request a custom organic solution quote at:
lgcstandards.com/custom

LGC Quality | ISO 17034
ISO/IEC 17025 | ISO 9001

We call our Dr. Ehrenstorfer™ custom organic reference materials Smart Solutions™. Why? Because they are custom-made to:

- **Save you time**
- **Make your lab life easier**
- **Meet all your analyte needs**

Using a custom-made EhrenstorferQuality reference material is all about working smarter – reducing the pressure on time, instrumentation and resources to deliver analytical testing quickly and efficiently.

Whatever your analyte challenge, simply tell us what you need and we will design the perfect product to do exactly that. We'll use high-quality components, the latest technology in our custom organic solutions centre of excellence, and our decades of experience and expertise to create your personalised Smart Solution™.

NAME YOUR STANDARD AND WE'LL SET IT. BECAUSE NOT ALL SOLUTIONS ARE CREATED EQUAL

Getting your hands on a Dr Ehrenstorfer™ Smart Solution™ is simple, quick and easy.

Visit lgcstandards.com/custom and use our custom quote request form and in just 5 simple steps you'll be ready to hand over the hard work to us.

Our team will design your unique Smart Solution™ to provide you with a detailed specification and quote within **24 hours**.



Rapid online quoting



Bulk component list
upload and CAS search



Select your choice of quality
level, solvent, format, volume
and quantity



LOUISE ROBERTS
Quality Assurance Manager, International Laboratory Network

YOUR CUSTOM, OUR EXPERTISE

When you choose to use a Dr. Ehrenstorfer™ Smart Solution™, you are collaborating with a dedicated team in our global centre of excellence for custom organic certified reference material solutions. With decades of experience, our team supports analysis from food safety testing and environmental monitoring to government labs and public health.

Accredited to ISO 17034 and ISO/IEC 17025, we use a wide spectrum of the latest techniques and technology to provide you with the highest quality reference materials.

Our manufacturing process is uniquely designed to be flexible to meet specific custom needs. We use teams of highly skilled scientists not just to produce your products, but also to analyse and characterise them too.

We validate your product on instruments that match any laboratory requirements – meaning you can be confident in the suitability of our products for your needs.

The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (NIST). The calibration of the balances is verified internally on a daily basis, and annually by an external accredited calibration service. Only Class A glassware is used for volumetric measurements.

We use the latest technology including:

- ◆ LC/HRAMS
- ◆ LC/QQQ
- ◆ GC/MS
- ◆ GC/FID
- ◆ GC/VUV
- ◆ IC



TIM SANDERSON
Lab Manager, Environmental Testing Laboratory

WANT SMARTER LAB PRACTICES? OUR CUSTOM-MADE SMART SOLUTIONS™ DELIVER THEM

As regulatory methods move from targeted lists to multi-residue screening methods, testing laboratories can provide more confidence to customers than ever. However, the analytical challenges are getting increasingly complex. A Dr. Ehrenstorfer™ custom-made Smart Solution™ is your strongest tool in meeting those challenges.

Dr. Ehrenstorfer™ Smart Solutions™ are designed with optimising analytical performance in mind. Whether your needs include single analytes, targeted shortlists or multi-residue screening, we have it covered. If your multi-component solution is complex with high numbers of analytes, we can group those analytes by retention time rather than product class for optimal elution – providing the best calibration curve spread to ensure the fastest, easiest way to test for hundreds of analytes in one run.



Reduce calibration
time with a
custom-made solution



No need to
compromise stability



Optimise cost

CUSTOM-MADE EHRENSTORFER QUALITY

Since 1975, Dr. Ehrenstorfer™ has led the way in producing pesticide reference standards. Today, our portfolio has expanded to adapt to changing regulations and technology as we support your needs for high-quality reference materials for food and environmental analysis.

At Dr. Ehrenstorfer™ we place an emphasis on quality as part of our commitment to providing you with products you can trust, and our custom-made Smart Solutions™ are no different.

This commitment includes accreditation to the highest possible standards, and every product you receive comes with a Dr. Ehrenstorfer™ Certificate of Analysis providing a full description of the material to which it relates, as well as a summary of the analyses undertaken during the characterisation process. Even our packaging choices are smart, with moisture-resistant boxes, safety glass containers and safety snap opening ampoules.

Our expert teams are also on hand to offer you support and guidance across a global network.



Discover more about what makes Dr. Ehrenstorfer™ your
perfect partner at lgcstandards.com/drehrenstorfer

WHATEVER YOUR ANALYTE CHALLENGE, WE HAVE THE SOLUTION

Dr. Ehrenstorfer™ Smart Solutions™ address the most complex reference material needs and challenges – such as when we were asked to create a Custom-Made Ehrenstorfer Quality solution featuring nearly 750 analytes.

CHALLENGE

The customer needed to be able to calibrate their laboratory LC instruments for a full day of testing across nearly 750 different analytes in massive multiple residue screening methods. They needed to reduce mixing time, reduce the demand on resources and reduce the margin for error.

SOLUTION

A high-quality pesticide multicomponent solution of 739 analytes in a kit of just five ampoules, optimised over a full year and fine-tuned to maximise stability and performance.

- ISO 17034 quality reference material multicomponent solution.
- Each ampoule solution designed to provide optimal elution.
- Supplied at 5 µg/mL to minimise bias due to degradation and ensure stability.
- Optimised concentration to ensure it can be used directly or with single dilution before use.
- Just 3 minutes preparation time and 30 minutes to calibrate LC instrument for 739 analytes.
- Can also be used for spiking method validation with known levels of included analytes.
- The largest mix of its type – providing quick and easy calibration and spiking for vast numbers of analytes.



Dr. Ehrenstorfer™ Smart Solutions™ v700 PestiMix Kit 2

This Smart Solution™ has such a wide range of applications that we have made it available to order as part of the Dr. Ehrenstorfer™ range.



Discover more at
lgcstandards.com/drehrenstorfer

WHAT IS YOUR SMART SOLUTION™?

Challenge us to meet your analyte needs, no matter the complexity.
Put us to the test at lgcstandards.com/custom

Request your custom quote online now at lgcstandards.com/custom. If you would prefer to discuss your needs with us please contact your local office, where our teams are always happy to help you to source your Smart Solution™.



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