LGC

DR EHRENSTORFER™

SMARTER SOLUTIONS. SAFER LABS. SAFER FARMING.

Pesticides

Reference standards for testing pesticides and pesticide metabolites

LGC Quality | ISO 9001 | ISO/IEC 17025 | ISO 17034/ISO Guide 34 | ISO/IEC 17043

ABOUT US

Our high standards make your world safer.

At Dr. Ehrenstorfer we're a global leader in the production and distribution of reference materials. Our procedures are accredited under ISO/IEC 17025 and ISO 17034/ISO Guide 34, guaranteeing high quality reference standards.

We're also a leading provider of Proficiency Testing, which, together with our reference materials enables laboratories worldwide to monitor the quality of their analytical results. Partnering with specialist suppliers, we offer the most comprehensive range of certified reference materials, matrix materials and quality control materials.

Meeting the challenge of analysis

Modern agricultural techniques and increasing global trade in food mean an ever-increasing need to test an ever-wider range of pesticides. Often hundreds of analytes are measured at low concentrations in a wide range of sample types.

Regulatory limits mean that quantitative analysis is often needed. Even with advances in chromatography and mass spectrometry, the analysis of pesticide residues is one of the most challenging application areas.

Backed by over 40 years experience in pesticide analysis Dr. Ehrenstorfer is a world leader in production of pesticide reference materials.

With our reference standards, matrix materials and Proficiency Testing schemes, LGC can satisfy all your pesticide laboratory quality needs.

Organic reference standards:

- Over 40 years experience in pesticides
- Unrivalled breadth of choice, including stable isotope standards and metabolites
- Kept in regular stock for fast and flexible service
- Available in a number of different formats
- Comprehensive Certificates of Analysis detailing purity, recommended storage conditions and expiry date
- See the full range in our latest Dr. Ehrenstorfer™ catalogue

Certified matrix materials include:

- Food, drinking waters, environmental waters, soils, sediments and sludges

Proficiency Testing schemes for pesticide analysis include:

- **Aquacheck** – Chemical analysis of clean and waste waters, agricultural soils, sewage sludges and more
- **QFCS Food Chemistry** – Including pesticides in fruit and vegetables

For further information or to download our latest catalogues, visit: **lgcstandards.com** or contact your local sales office.

NEAT MATERIALS

What you need to know.

Our neat materials (individual reference standards) provide laboratories with the flexibility they need to tailor the scope of their testing – enabling them to respond quickly to changes in regulation, and keep pace with customer demand.

Pesticide analysis often means that hundreds of compounds have to be tested in a single sample. Several different metabolites often need to be tested in order to monitor for pesticides.

Our Dr. Ehrenstorfer portfolio includes a range of around 1700 neat pesticides and pesticide metabolites, including compounds which are difficult to obtain elsewhere.

Our range includes:

- Organophosphates
- Organochlorines
- Carbamates
- Pyrethroids
- Neonicitinoids
- Quaterinary ammonium pesticides
- Toxaphene congeners

STABLE ISOTOPES

Enabling more accurate measurements.

LC/MS and GC/MS have been routinely adopted for pesticide analysis. Responses observed using these techniques can be affected by the sample matrix, impacting the accuracy of measurements.

Stable isotope labelled compounds can be added to samples to negate these 'matrix effects'. We offer an extensive range of more than 300 stable isotope labelled pesticide standards in the Dr. Ehrenstorfer portfolio, so you're able to select the standard most appropriate to you.

SOLUTIONS AND MIXTURES

Saving you time. Saving you effort.

Your lab may often prefer prepared solution standards to minimise the handling of chemicals and reduce the time and effort needed for in-house solutions. You'll find this highly beneficial if the analytical scope of the method is relatively fixed, for example, when you're testing against established regulatory requirements.

Dr. Ehrenstorfer has over 2000 solutions and mixtures for the pesticide analysis sector, in a range of concentrations. Solutions are often available in different solvents to be compatible with LC and GC systems.

CUSTOMS

The bespoke approach for you and your lab.

Sometimes laboratories need special solvents, compounds or concentrations of compounds that aren't available in our standard catalogue. If you can't find a product that matches exactly what you need, we can produce a custom solution to meet your precise technical requirements. You can request a custom product via your local sales team or online at **lgcstandards.com**

Are you following EPA methods in your laboratory?
We cover the basics with our ready to use Dr. Ehrenstorfer ISO 17034/ ISO Guide 34. This is an expanding range with over 200 products currently available.

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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