



Insecticides and Metabolites

Reference Materials and Research Chemicals

LGC Quality

ISO 17034 | ISO/IEC 17025 | ISO 9001

To learn more about our complete Insecticides portfolio, get in touch or visit: lgcstandards.com



Insecticides portfolio



Insecticides in Food Production

Insecticides are essential for protecting crops and stored produce from pests such as aphids, beetles, and caterpillars. They help maintain high yields and quality and are often part of Integrated Pest Management (IPM) strategies.

SAFETY CONSIDERATIONS

Food Safety: Regulatory bodies may ban use or set strict Maximum Residue Limits (MRLs) to keep trace residues on food within safe levels.

Environmental Impact: Misuse can lead to water contamination, soil disruption, and harm to pollinators and other non-target species.

YOUR TRUSTED SOURCE FOR INSECTICIDE STANDARDS

We offer the most comprehensive portfolio insecticide reference materials and research chemicals. With over **1,700 products**, including neat, single solutions and mixtures. As well as unique mixtures and custom solutions, developed by our expert scientists. Easily find what you need, to support your:



Food & Beverage Testing – Detect and quantify residues in fruits, grains, and processed foods. Helping you ensure compliance with global MRLs and banned pesticide lists.



Environmental Monitoring – Analysis of soil, water, and air for contamination. Support regulatory programs for groundwater and run off safety.



Agricultural Persistence Studies – Verify application levels and track degradation and metabolism.



Method Development & Validation – Calibrate LC-MS/MS and GC-MS for trace detection. Validate multi-residue screening methods for routine monitoring.

[EXPLORE OUR RANGE](#)

INNOVATION DRIVEN BY YOU

Introducing **new** insecticide reference materials, for your food and environmental analysis, highlights include:

- **Phosfolan-methyl** – Organophosphate insecticide; for crops like rice and cotton. [DRE-CA16115000](#)
- **Isocycloseram (5S,4R)** – Part of the new class of mesoionic insecticides with novel modes of action. [DRE-A14404510AL-100](#)
- **Fipronil 13C4** – Broad-spectrum insecticide; 13C4-labeled reference material [DRE-C13645010](#)
- **Thiacloprid metabolite M30 sodium** – Metabolite of neonicotinoid insecticide; relevant for toxicological studies. [DRE-CA17451150](#)
- **Fenobucarb D3** – Carbamate insecticide; D3 version used in analytical standards. [DRE-C13485010](#)
- **Spirothion** – New-generation insecticide with systemic activity; promising for resistance management. [DRE-C16972981](#)
- **Sulfoxaflor D3** – D3-labeled version for LC-MS/MS quantification. [DRE-C17015100](#)
- **Indoxacarb D3** – D3 version for residue analysis. [DRE-C14325503](#)

[EXPLORE NEW PRODUCTS](#)

And discover our complete range of pesticides – no matter the purpose



Science for a Safer World



Speak to an expert

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