

## Residue Chemistry Analysis

Smithers Viscient provides GLP-compliant residue chemistry studies for registration and environmental monitoring needs. Our expert team has experience in analyzing all major residue matrices.



Smithers Viscient delivers timely, cost-effective sample generation and analysis. We can coordinate and conduct field trials in growing regions across North America and Europe. Samples are processed and analyzed at our laboratories.

For over 40 years, Smithers Viscient has conducted studies to meet internationally recognized testing guidelines, including OPPTS, OECD, and SANCO. We test a wide variety of crop protection products, and our responsive team manages studies from initiation to submission to ensure on-time delivery.

Our analytical chemists have expertise in method development and method validation, and can design and implement fully customizable multi-residue testing programs for both active ingredients and metabolites. Smithers Viscient has developed HPLC, LC/MS/MS, and GC methods for a wide variety of matrices, including plant materials, soil, water, air, processed food, animal feed, and animal tissues. These methods are fully validated according to the latest guidelines.

### Service offerings

- Analytical methods development and validation
- Field dissipation
- Field trials in collaboration with field contractors
- Magnitude of Residue (MOR) and Residue Decline Studies
- Groundwater and surface water studies
- Dislodgeable foliar residue studies
- Worker exposure studies
- Maximum residue limits (MRL)/Import tolerance
- Independent laboratory validation of analytical methods (ILV)
- Feeding Studies
- Fish and shellfish residue studies
- Human food safety and residue analysis
- Storage stability/product shelf life
- Sample receipt, inventory, pre-processing, and frozen storage
- Radiovalidation of analytical methods using aged samples originating from  $^{14}\text{C}$ -metabolism, field or feeding studies (plant, animal)

Smithers Viscient performs studies at our laboratories in North America and Europe. Some residue chemistry services are offered at select locations. Contact our business development team at [info@smithersviscient.com](mailto:info@smithersviscient.com) for more details.

For a full listing of our residue chemistry services, instrumentation, and storage facilities, visit our web site at

<http://www.smithersviscient.com/index.php/residue-chemistry>



**Web:** [www.smithersviscient.com](http://www.smithersviscient.com)  
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