



AGROSCIENCE ANALYSIS



OUR EXPERTISE



We are known for our deep expertise in a wide range of scientific analysis, monitoring and compliance services. We customise chemical investigation and analysis solutions to help clients comply with international quality standards, maximum residue limits (MRLs), environmental regulations and more.

Agroscience analysis

RPS conducts a wide range of tests to evaluate chemical properties of agrochemicals in compliance with OECD guidelines.

We also test for pesticide residue breakdown in produce, soil, water and other complex matrices. This helps our clients understand the effects of pesticides and their impact on the food chain and the environment.

From state-of-the-art laboratories in the UK and Netherlands, RPS has a wealth of experience in providing targeted and accredited AgroScience analysis, testing for pesticide residue, herbicide, fungicides and other organic compounds.

We help our clients protect against their impact on the food chain and the environment. We work with agrochemical companies of all sizes, supporting them to achieve registration of active ingredients used on crops.



AGROSCIENCE ANALYSIS



AgroScience companies that want to register new pesticides or new combinations of pesticides must first demonstrate that residue limits fall below the Maximum Residue Limits (MRLs), at point of harvest. This information must be provided to regulators in order for their product to be approved for use.

GLP analysis

Our testing facilities are compliant via the GLP compliance monitoring program (MHRA) which enables our clients to submit validated data to their regulatory authority for review and approval of their product.

Targeted pesticide suites

We analyse for new and existing actives and supply a detailed report with validation and breakdown curves suitable for registration. We work to ISO 17025 quality standards and hold UKAS Accreditation for a variety of active compounds / chemicals such as Glyphosate & AMPA.

UKAS - flexible scope

RPS hold a flexible scope of accreditation for the analysis of pesticides in foods and crops. This enables the rapid validation of methods in line with SANCO guidelines to provide our customers with ISO 17025 accredited results to meet analysis requirements.

Impurity profiling

RPS provides analytical support for the analysis of unknown contaminants in various matrices. Our forensic approach enables us to assist our clients and add-value to different stages of their enquiry/ investigation.

Active substance assay

We provide analysis of pesticide formulations to confirm batch purity assay and can also help in identifying unforeseen by-products and impurities resulting from manufacturing practices or leaching from packaging materials.

We can set up methods to determine raw ingredients and formulated products, to provide external quality control and quality assurance, or to give you required validated methodology to implement in your facility. We can also provide confirmatory analysis of products, to resolve customer disputes such as claims of incorrect formulation or incorrect labelling.

GOOD LABORATORY PRACTICE (GLP)



RPS conducts a wide range of tests to evaluate chemical properties of Agrochemicals in compliance with OECD guidelines and compliance. GLP is a quality control system covering the organisational process and the conditions under which non-clinical health and environmental studies are planned, performed, monitored, recorded, reported and retained (or archived).

Any pharmaceutical, biological or chemical product developed around the world requires mandatory testing and tight regulations.

This demonstrates they are safe for their intended use by humans, animals and in the environment. In the UK, testing is regulated via Good Laboratory Practice (GLP) Regulations and compliance is monitored by the UK GLP Monitoring Authority.

We follow internationally accepted methods and strict compliance to OECD principles of GLP.

Residue studies

Our GLP team have many years of experience in the agrochemical industry, giving us the capability to manage a wide range of residues studies from the field phase through to analytical testing. Our GLP testing supports our clients to meet data requirements for the registration of their formulated products or active substances.

Our areas of expertise include:

- Crop rotation, harvest and decline trials
- Processing studies
- Soil dissipation studies
- Water residue analysis
- Method validations
- Independent Laboratory Validation (ILV)
- Storage stability

Latest technology

We've installed the latest technology including the Orbitrap mass spectrometer, which provides high resolution accurate mass data that traditional LC-MS/MS instruments do not offer.

We are able to include full scan data in addition to the targeted analysis, allowing us to retrospectively interrogate the data to identify presence of any unknown metabolites without the need for our clients to further provide analytical samples.

Sample integrity

RPS has a logistics team covering many countries and continents. Furthermore, to ensure integrity of samples in transit, we supply dataloggers for all GLP sample shipments.



ABOUT RPS

Founded in 1970, RPS is now part of Tetra Tech, a leading provider of consulting and engineering services worldwide. Our experts define, design and manage projects that create shared value to a complex, urbanising and resource-scarce world. With 28,000 associates in 550 offices in more than 100 countries on 7 continents, Tetra Tech has the resources of a multi-billion-dollar company and can move at the speed of a 20-person office.

We work across six sectors:

- Property
- Transport
- Energy
- Water
- Resources
- Defence and government services



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