Instrumentation

Equipped with state of the art instrumentation, we provide high level performance in terms of speed, accuracy, precision and reliability.

- ICP-OES / ICP-MS – major and trace elements P K Ca Mg Na Fe Al Ti Zn Cu Ni Cd Cr Pb Mo Co Mn S
- Colourimetric Segmented Flow Analysis – NO₃-N NO₂-N Cl NH₄-N PO₄-P TN
- Isotope Ratio Mass Spec – delta ¹⁵N and delta ¹³C
- Combustion analysis – total N/C
- Carbon analysers – TOC UV oxidation & Soil Inorganic C
- Soil pH

Analytical Services

We offer 22 standard services, including extraction and digestion procedures as well as instrumental analysis.

Analytical Facilities

We provide extraction, digestion and analysis procedures as a service for both research programmes at Rothamsted Research and for external work.

We can offer:
- Method and procedure advice
- Fully costed quotes
- Sample digestion and extraction
- Sample measurement
- Quality Assurance
- Provision of verified in-house standard materials
- Analytical information for papers.

Sample preparation

Our sample preparation laboratories include:
- Open tube digestion
- Microwave digestion
- Soil extraction facilities
- Temperature controlled shakers
- Auto-dilution facilities

Sample Materials

- Soil / farmyard manure
- Plant material / compost
- Soil and plant extracts
- Environmental waters / nutrient solutions

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Quality Assurance

The Unit follows the Joint Code of Practice (JCoPR) and participates in the WEPAL European Quality Assurance programme; the International Soil Exchange (ISE) and the International Plant Exchange (IPE).

Prices

Please contact us to discuss your specific requirements in more detail and for information on service charges.

A full quotation for work is available on request.

Contact Details

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Rothamsted Research
Analytical Chemistry Unit

Extraction, digestion and measurement services at Rothamsted Research Harpenden Laboratory