

THE FUTURE STARTS HERE!



PESTICIDE  
RESIDUES TESTING

**ANALYTICAL CHALLENGES FOR PESTICIDE RESIDUES ANALYSIS**

- Analysis of 100's of analytes in 100's of different food samples.
- Achieving low reporting limits.
- Acceptable stability/recovery of pesticides during extraction and clean-up.
- Chromatographic separation of analytes from matrix.
- Matrix-matched calibration to mitigate matrix suppression or enhancements effects.
- Meeting guideline criteria for validation, quantification, identification and routine AQC.
- Efficient data processing, review and reporting.

THERMO SCIENTIFIC PESTICIDE SOLUTIONS

Sample Extraction and Clean-up Techniques



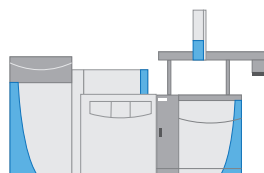
QuEChERS



Accelerated Solvent Extraction Technique

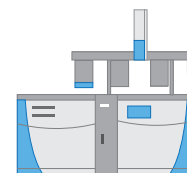


Simultaneous Targeted and Non-Targeted Analysis



Exactive™ GC Orbitrap™ GC-MS System  
Q Exactive™ GC HRAM Orbitrap™ GC-MS/MS system

Targeted Quantitative Analysis



TSQ™ 9000 Triple Quadrupole GC-MS/MS System

Targeted Quantitative Analysis



TSQ Quantis™  
TSQ Altis™  
Triple Quadrupole LC-MS/MS System

Simultaneous Targeted and Non-Targeted Analysis



Q Exactive™ Focus Hybrid  
Quadrupole-Orbitrap™  
LC-MS/MS system

Ionic Pesticides



Dionex™ Integriion™ HPIC™ System  
Dionex™ ICS-6000 HPIC™ System  
and triple quadrupole or Orbitrap  
mass spectrometers

Instrument and Data Management



Chromeleon™ CDS Software



TraceFinder™ Software

Find out more at [thermofisher.com/pesticides](http://thermofisher.com/pesticides)