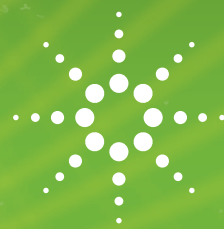


FOOD ANALYSIS

A VALIDATED LC/MS/MS SOLUTION FOR THE ANALYSIS OF PESTICIDES AND OTHER CHEMICALS IN CEREALS



Solutions for Your Analytical Business
Markets and Applications Programs



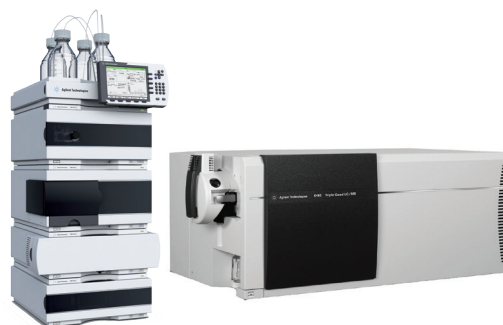
This Solution is dedicated to the analysis of more than 170 pesticides and growth regulators in different cereals.

Pesticides and other chemicals are used widely in agriculture.

European Community regulations determine the maximum allowed amounts of those compounds in different matrices for its member states.

Agilent offers a turn-key Solution covering:

- Sample preparation
- Sample analysis
- Data analysis
- Full Agilent support



Matrices

- Soft Wheat
- Hard Wheat
- Barley
- Oilseed Rape
- Corn
- Soybean
- Peanuts
- Beans
- Sunflower

Target Compounds

- Pesticides
- Growth Regulators

The working range goes from 0.01 mg/kg to 0.10 mg/kg for all analytes. LOQs, LODs, precision and recoveries are in accordance to DG SANCO guidelines.

Sample preparation is done following QuEChERS approach: extraction with organic solvent followed by dispersive SPE with Bond Elut material. Sample analysis is performed with an Agilent UHPLC 1260 and an Agilent 6460 triple quadrupole.



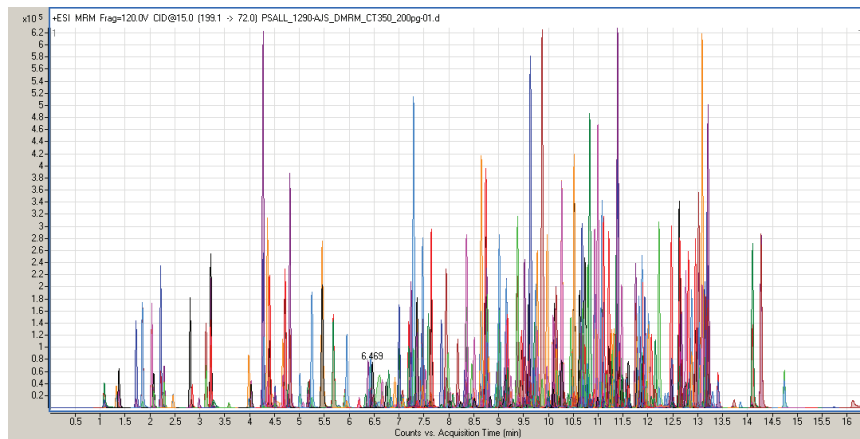
Agilent
Guaranteed
Solution

Developed
Installed
Tested
Supported

The Measure of Confidence

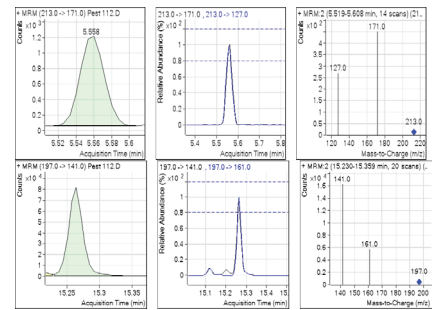


Agilent Technologies



The Agilent Pesticides Solution for cereals comprises the following:

- Complete hardware set-up (Agilent 1260 UHPLC and Agilent 6460 triple quadrupole) with dedicated analytical column;
- Standard operating procedure (SOP) with detailed descriptions of the analysis and validation procedures;
- Method of analysis (a DVD/CD containing sample preparation and sample analysis methods, recommended consumables and materials);
- One week training at Laboratorio Químico-Microbiológico (Murcia, Spain) on sample prep, validation procedures and analytical methods;
- On-site Training and Support (at customer site) covering Qualitative and Quantitative analysis;



LABORATORIO QUÍMICO-MICROBIOLÓGICO, S.A.

STANDARD OPERATING PROCEDURE	STANDARD OPERATING PROCEDURE	STANDARD OPERATING PROCEDURE
<p>1. PURPOSE</p> <p>2. SCOPE</p> <p>3. REFERENCES</p> <p>4. MATERIALS</p> <p>5. ANALYTICAL PROCEDURE: SAMPLE EXTRACTION</p> <p>6. ANALYTICAL PROCEDURE: INSTRUMENTATION</p> <p>7. ANALYTICAL PROCEDURE: DATA ACQUISITION</p> <p>8. ANALYTICAL PROCEDURE: DATA ANALYSIS</p> <p>9. ANALYTICAL PROCEDURE: REPORTING</p>	<p>10. VALIDATION</p> <p>11. REFERENCES</p> <p>12. SCOPE</p> <p>13. REFERENCES</p> <p>14. MATERIALS</p> <p>15. ANALYTICAL PROCEDURE: SAMPLE EXTRACTION</p> <p>16. ANALYTICAL PROCEDURE: INSTRUMENTATION</p> <p>17. ANALYTICAL PROCEDURE: DATA ACQUISITION</p> <p>18. ANALYTICAL PROCEDURE: DATA ANALYSIS</p> <p>19. ANALYTICAL PROCEDURE: REPORTING</p>	<p>20. PURPOSE</p> <p>21. SCOPE</p> <p>22. REFERENCES</p> <p>23. MATERIALS</p> <p>24. ANALYTICAL PROCEDURE: SAMPLE EXTRACTION</p> <p>25. ANALYTICAL PROCEDURE: INSTRUMENTATION</p> <p>26. ANALYTICAL PROCEDURE: DATA ACQUISITION</p> <p>27. ANALYTICAL PROCEDURE: DATA ANALYSIS</p> <p>28. ANALYTICAL PROCEDURE: REPORTING</p>

Rev. 01

STANDARD OPERATING PROCEDURE

MULTIRESIDUE ANALYSIS OF PESTICIDES USING HIGH PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED TO TRIPLE QUADRUPOLE (HPLC-QQQ) IN WHEAT (SOFT AND HARD), CORN AND BARLEY SAMPLES

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