A VALIDATED GC/MS/MS SOLUTION FOR THE ANALYSIS OF PESTICIDES IN OLIVE OIL

Solutions for Your Analytical Business Markets and Applications Programs



FOOD ANALYSIS



Matrix

Olive Oil

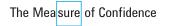
Target Compounds

Pesticides

Sample Prep

• QuEChERS





A turn-key application for the analysis of more than 215 pesticides in Olive Oil.

Pesticides and other chemicals are used widely in olive plantations. Residues may persist (especially fat-soluble ones), possibly contaminating olives used to produce olive oil and, finally, the oil itself.

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

Agilent offers a turn-key Solution covering:

- Sample preparation
- · GC-tandem MS analysis
- Data analysis
- Validation Protocol
- Full Agilent support

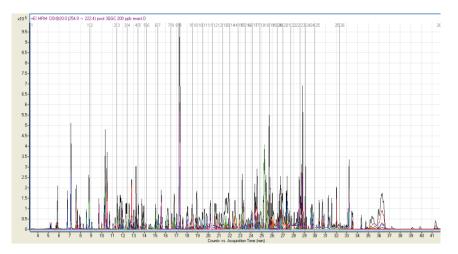


The working range goes from 0.01 mg/Kg to 0.50 mg/Kg for all analytes. LOQs, LODs, precision and recoveries are in accordance with DG SANCO guidelines.

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 GC 7890 and an Agilent 7000 triple quadrupole. All compounds are determined in a single analytical run.

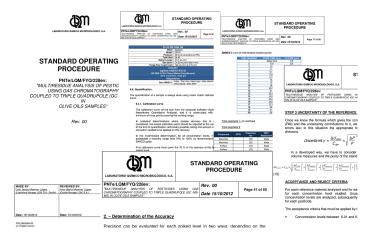


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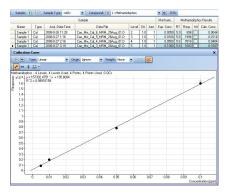
The Agilent Pesticides Solution for olive oil comprises the following

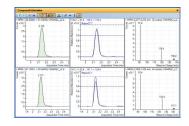
- Complete hardware set-up (Agilent 7890 GC and Agilent 7000 GC/MSD triple quadrupole) with dedicated analytical column;
- Standard operating procedure (SOP) with detailed descriptions of the analysis and validation procedures;
- Method of analysis (a DVD/CD containing sample preparation and sample analysis methods, recommended consumables and materials);
- One week training at Laboratorio Quimico-Microbiologico (Murcia, Spain) on sample prep, validation procedures and analytical methods;
- On-site Training and Support (at customer site) covering Qualitative and Quantitative analysis;





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