



## From farm to fork

Safety and quality

### Your challenges

Since its establishment in 1982, pH commitment is to protect food safety.

Pesticide residues analysis on fresh fruit and vegetables, dried and processed, herbs and spices, is one of pH Laboratory core business from a decade. Recognized by the Ministry of Agriculture for the analysis on organic products, pH is the reference Laboratory for all organic certification bodies, being able to guarantee an accurate and exact service (multiresidue analysis with more than 700 active ingredients) that enables Laboratory's technicians to carry out compliance assessments conform to applicable regulations, with fast response time (within 48 hours possibility for fruits and vegetables), thanks to a full range of state-of-the-art analytical equipment.

### How can we help you?

pH offers a wide range of analysis:

- **Pesticides** (multiresidue analysis and individual methods for a total amount of active substances superior to 700). Analysis are carried out using

official EN 15662: 2008 QuEChERS method for multiresidue analysis and a wide range of internal methods, rigorously accredited for individual residues analysis.

Pesticides analysis are performed by liquid and/or gas chromatography triple quadrupole together with mass spectrometry.

The Laboratory has also an exact mass for the non-targeted analysis or for particular residues. The Laboratory equipment guarantees for each molecule and for each matrix limits of quantification extremely low, that for most of the molecules investigated LOQ corresponds to 0.005 mg/Kg pH controls the quality of its results participating in inter Laboratories circuits organized by authorized Bodies as QS, Fapas, Centro operativo ortofrutticolo.

- **Other molecules with single determination:** dithiocarbamates, dithianon, chlormequat, chlorinated, perchlorates, ethephon, glyphosate.
- **Heavy metals:** lead and cadmium with two different official and accredited methods: ISSN 96/34 pag. 113 and ISSN 96/34 pag. 92.



- **Nitrates:** leafy vegetables fresh herbs with official and accredited methods: UNI EN 12014-2:1998.
- **Bromides:** internal method accredited.
- **Our instrumentation:** GC-QQQ, GC-Q, LC-QQQ, LC-TOF, ICP-MS, AAS, Dionex.

### Your business benefits

- **ACCREDIA accreditation** – pH is accredited with number 0069 since 1994 as a Laboratory working in compliance with Regulation UNI CEI EN ISO/IEC 17025:2005 “General requirements for the competence of testing and calibration Laboratories” and this underlines the importance given to the quality of analytical data. The accreditation involves a periodic verification of Laboratory’s technical expertise in relation to the accredited tests.
- **QS** – German accreditation.
- **Ministry of Agriculture accreditation** – for the analysis of organic products.
- **Certifications & suitability** – pH works in accordance with ISO 9001 and UNI EN ISO 14001 standards with a certified quality and environment management system, to improve its in-house performances and to offer its customers services consistent with their expectations, in full compliance with environmental obligations.

### Why choose pH Laboratories?

pH Laboratories pursues the objectives of ongoing improvement, effectiveness and service efficiency. In order to reach these goals we adopt the most appropriate technological, organisational and procedural solutions; in addition, we ensure

continuous training for all levels of personnel as well as maintenance of the professional requirements necessary to the lab’s activities over time.

At pH, Environmental Management – i.e. the protection of natural resources and reduction of the environmental impact – is a key element of our business strategy, implemented through the continuous improvement of our company’s performance.

### Choose certainty. Add value.

TÜV SÜD, which owns pH Laboratories through its acquisition by TÜV Italia, is a leading organization in quality, safety and sustainability. We provide comprehensive analysis, test, inspection, audit, certification and training solutions. With a worldwide presence through over 800 offices, we are accredited in Europe, North and South America, Asia and Africa. We offer actionable solutions providing tangible value to companies, consumers and the environment.

### Related services

#### Food tests:

- chemical (bromatological and residues);
- microbiological;
- biomolecular;
- eco-toxicological;
- phyto-pathological;
- sensory;
- food contact.

#### Environment, Safety, Industrial Hygiene tests:

- chemical-environmental;
- environmental and medical gas.

#### Analyzed matrices:

- food and beverage;
- waters (drinkable, surface and wastewater);
- aquatic environments;
- food containers;
- ceramic objects, glasses, crystals;
- plants and vegetables;
- soils and agricultural land;
- composites;
- feeds;
- surfaces and tools.

#### Technical services