



Extra virgin olive oil: an important food in the daily diet

Our commitment to product quality

Your challenges

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

Tuscany, the region where pH Laboratory is located, is by definition the land of olive trees and then, still its starting activity, pH works hard on oil analysis, a sector in which it acquired, day after day, experience and competence.

pH Laboratory provides an accurate and exact service, that ensures product's compliance to applicable regulations, thanks to a full range of analytical equipment state of art.

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 550) - Pesticides analysis are carried out using liquid and/or gas chromatography triple quadrupole together with mass spectrometry. The Laboratory has also an exact mass for the analysis non-targeted or for particular residues.

The Laboratory equipment guarantees for each molecule and for each matrix, limits of quantification extremely low, for most of the molecules investigated the LOQ corresponds to 0.010 mg/kg.

pH controls the quality of its results participating in inter laboratories circuits, organized by authorized Bodies ISS specific for oil.

- **Heavy metals:** lead, cadmium, iron, copper, arsenic, magnesium, sodium, selenium etc.
- **Basic analysis:** spectrophotometric analysis, Polycyclic aromatic hydrocarbons, phthalates; peroxide, acidity as oleic acid, diglycerides, stigmastadienes, alkyl esters, fat, sterols, delta ECN 42, polyphenoles, vitamin E, wasex, pirofeofitina and phaeophytins total, panel test.
- **Our instrumentation:** GC-QQQ, GC-Q, GC-FID, LC-QQQ, LC-TOF, ICP-MS, AAS, HPLC-DAD, HPLC-Fluorimeter.

Your business benefits

- **ACCREDIA accreditation** – pH is accredited with number 0069 since 1994 as a Laboratory working



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. It provides comprehensive analysis, test, inspection, audit, certification and training solutions. With a worldwide presence through over 800 offices, it is accredited in Europe, North and South America, Asia and Africa. It offers actionable solutions providing tangible value to companies, consumers and the environment.

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.

- **Ministry of Agriculture accreditation** – for sensory evaluation of oil.
- **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.

Related services

Food tests:

- chemical (bromatologic 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