



Proficiency Testing Schemes 2027

Issue
September 2026



ielab is an ENAC accredited Proficiency Testing Provider with accreditation No. 2/PPI007 in accordance with the UNE-EN ISO/IEC 17043 Standard

See the accredited offer inside

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ielab: experience, commitment and quality

ielab is an international company dedicated to providing services and products for the application of quality in laboratories.

Our years of experience in proficiency testing and our accredited quality are the driving force behind our commitment: protecting overall health. We apply the One Health philosophy in each of our developments, ensuring that every result is a tool for a safer world.

Experience: The knowledge that connects

Years of history in proficiency tests that allow us to understand the variables of the three sectors (human, animal, environmental).



Accredited Quality: The accuracy guarantee

Without reliable data, monitoring is impossible. Quality is the safety standard that protects global health.

Commitment: Protect health

Proactive actions (pathogen detection, PFAS, etc.). The safety of the ecosystem is our mission.

Why ielab?

Leader in the Spanish market and international presence in over 65 countries	50 Rounds /year 26 Proficiency Testing Schemes 11 Matrices	>25 years of Experience organizing Proficiency Testing Schemes
Our professional background supports trust and credibility	Experience Commitment Quality	Highly qualified human team
Closeness and accessibility: Quick response and personalized support	>320 Physical-chemical and microbiological parameters. Continuous renewal	Commitment to quality. Extensive scope of ISO/IEC 17043 accreditation

Our certifications

Our commitment to quality and efficiency is demonstrated by our certifications and accreditations:



ISO 9001:2015
Certification of all the activities



ielab is an ENAC
accredited Proficiency
Testing Provider with
accreditation No. 2/
PPI007 in accordance
with the UNE-EN ISO/
IEC 17043 Standard



ielab is a Reference
Material Producer
accredited by ENAC
with accreditation No. 1/
PMR001 in accordance
with the UNE-EN ISO/
IEC 17034 Standard

Our value, our identity

We support laboratories throughout the entire external quality assessment process

We Design

at the forefront of new legislative requirements

① Sample Preparation

- Natural matrices
- Homogeneity and stability studies in ISO/IEC 17025 accredited laboratories

② Sample Shipment

- National and international shipping
- Advance sending of instructions
- Temperature control during transport

We Evaluate

① Results Submission

- Editable web bulletin until the end of the round
- Traceability and confidentiality

② Statistical Treatment

- Evaluation of results using the z score criteria. SDPA (σ_{pt}) obtained by historical, by calculation, or according to legislation

We Deliver

① Reports and Certificates

- Detailed statistical reports with comparative analysis of methodologies
- Individual and personalized reports

We advise

- Qualified technical support
- Personalized attention and service
- Tailored solutions

Bet on digitalization

Customer Portal: www.ielab.es

- Online registration for proficiency test rounds.
- Access to instructions, results, and reports.
- Download participation certificates.

Proficiency Testing Management Software

- Centralized management of customers and invoicing.
- Process automation for greater efficiency and traceability.

Statistical Processing Software

- Fast and automated data processing.
- Preparation of general and custom reports with robust statistical analysis.

Online Store: <https://tienda.ielab.es>

Discover all our services:

- Reference materials.
- Solutions for Molecular Biology.
- Innovation services developed tailored to the needs of the laboratory.

ielab Proficiency Testing Schemes 2027



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Pollution



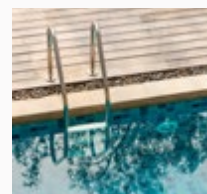
18 *Legionella*



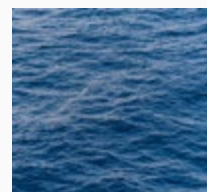
21 Viruses in
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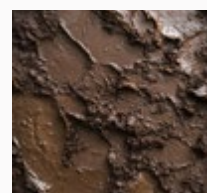
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Drinking Water

Schemes

Drinking Water: Physical-chemical A
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Drinking Water: Microbiology
Bottled Water: Microbiology

The European legal framework that governs the quality of water intended for human consumption is Directive (EU) 2020/2184. This directive establishes minimum quality standards that water must meet to safeguard human health and protect citizens against contaminants and emerging risks.

In Spain, the quality, safety, and supply of water intended for human consumption are regulated by Real Decreto 3/2023, which focuses primarily on a preventive model based on comprehensive risk management. This regulatory framework extends monitoring from the tap back to the source water companies, ensuring the wholesomeness, cleanliness, and availability of drinking water. It prioritizes measures such as improving access to water for vulnerable groups, ensuring transparency regarding supply quality for the public, and promoting tap water consumption over bottled alternatives, looking for a more sustainable and efficient consumption model.

Our proficiency testing schemes for drinking water cover the main physicochemical indicators and microbiological pathogens used to assess the quality of this type of water.

Drinking Water: Physical-chemical A

Reference: 990001

Round I	Week 8 15 February 2027	Aluminium / Ammonium / Antimony / Bicarbonates / Boron / Cadmium / Conductivity at 20°C / Langelier index at 20°C / Magnesium / Manganese / Nitrates / Sodium / Uranium
Round II	Week 20 10 May 2027	Arsenic / Chlorides / Colour / Iron / Mercury / Nitrites / Oxidability / pH / Potassium / Selenium / Zinc
Round III	Week 39 20 September 2027	Calcium / Chromium / Combined chlorine / Copper / Fluorides / Free residual chlorine / Lead / Nickel / Sulphates / Total chlorine / Turbidity

Metals will be determined as 'total metals'

Drinking Water: Physical-chemical B

Reference: 990002

Round I	Week 8 15 February 2027	Aldrin / Aluminium / Ametryn / Ammonium / Antimony / Atrazine / Benzo-a-pyrene / Benzo-b-fluoranthene / Bicarbonates / Boron / Bromodichloromethane / Cadmium / Conductivity at 20°C / Dibromochloromethane / 1,2-Dichloroethane / Dieldrin / Langelier index at 20°C / Magnesium / Manganese / Nitrates / Sodium / 1,1,1-Trichloroethane / Uranium
Round II	Week 20 10 May 2027	Alfa-endosulfan / Arsenic / Benzene / Benzo-g,h,i-perylene / Bromoform / Chloroform / Chlorides / Colour / Heptachlor / Iron / Indeno-1,2,3-c,d-pyrene / Mercury / Nitrites / Oxidability / pH / Potassium / Propazine / Selenium / Terbutylazine / Toluene / Vinyl chloride / Zinc
Round III	Week 39 20 September 2027	Benzo-k-fluoranthene / Beta-endosulfan / Calcium / Chromium / Combined chlorine / Copper / 4,4'-DDE / Ethylbenzene / Fluoranthene / Fluorides / Free residual chlorine / Heptachlor epoxide / Lead / Nickel / o-Xylene / Simazine / Sulphates / Tetrachloroethene / Total chlorine / Trichloroethene / Turbidity

Metals will be determined as 'total metals'

Drinking Water: Physical-chemical C

Reference: 990003

Round I	Week 12 15 March 2027	Barium / Beryllium / Bicarbonates / Calcium / Conductivity at 20°C / Dry residue / Hardness / pH / Turbidity / Vanadium NEW
Round II	Week 38 13 September 2027	Anionic surfactants / Cobalt / Kjeldahl nitrogen / Magnesium / Orthophosphates / Silica / Silver / Total cyanides / Total phosphorus

Metals will be determined as 'total metals'

Drinking Water: Physical-chemical D

Reference: 992981

Round I	Week 10 1 March 2027	Acrylamide* / Bisphenol A* / Bromates* / Bromides* / Bromoacetic acid* / Chloroacetic acid* / Dibromoacetic acid* / Dichloroacetic acid* / Sum of Haloacetic acids (HAA)* / Total organic carbon (TOC)* / Trichloroacetic acid*
Round II	Week 43 18 October 2027	Chlorates* / Chlorites* / 2,4-D / Diuron / Geosmin* / Isoproturon* / 2-Methylisoborneol (MIB)* / MCPA / Microcystines LR* / Perfluorooctanesulfonic acid (PFOS)* / Perfluorooctanoic acid (PFOA)* / Sum of PFAS*

*Parameters marked with an asterisk are not covered by ENAC accreditation

Drinking Water: Microbiology

Reference: 990019

Round I	Week 6 1 February 2027	<i>Clostridium perfringens</i> / Culturable microorganisms at 22°C / Culturable microorganisms at 30°C / Culturable microorganisms at 36°C / <i>Escherichia coli</i> / Faecal coliforms / Intestinal enterococci / <i>Salmonella</i> spp. / Total coliforms
Round II	Week 20 10 May 2027	<i>Clostridium perfringens</i> / Culturable microorganisms at 22°C / Culturable microorganisms at 36°C / <i>Pseudomonas aeruginosa</i> / <i>Escherichia coli</i> / Faecal coliforms / Faecal streptococci / Intestinal enterococci / Total coliforms
Round III	Week 38 13 September 2027	<i>Clostridium perfringens</i> / Culturable microorganisms at 22°C / Culturable microorganisms at 36°C / <i>Escherichia coli</i> / Intestinal enterococci / <i>Pseudomonas aeruginosa</i> / <i>Staphylococcus aureus</i> / Sulphite-reducing clostridia / Total coliforms

Metals will be determined as 'total metals'

Bottled Water: Microbiology

Reference: 990037

Round I	Week 22 24 May 2027	<i>Clostridium perfringens</i> / Culturable microorganisms at 22°C / Culturable microorganisms at 36°C / <i>Escherichia coli</i> / Intestinal enterococci / <i>Pseudomonas aeruginosa</i> / Sulphite-reducing clostridia / Total coliforms
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Metals will be determined as 'total metals'



Continental Water

Schemes

Continental Water: Microbiology

Untreated Continental Water: Physical-chemical **NEW**

Treated Continental Water: Swimming pool

The current directive regulating inland water quality is Directive (EU) 2026/805, which amends and updates the Water Framework Directive (2000/60/EC) and environmental quality standards. This new regulation establishes a management model based on the sustainability of the hydrological cycle; it also tightens limits on hazardous substances and expands monitoring to include emerging contaminants such as PFAS, microplastics, and pharmaceuticals.

From a technical and quality control perspective, it is essential to distinguish between two main categories:

Untreated continental waters: Waters found in their natural state, such as rivers, lakes, and aquifers. Their protection and monitoring are critical to ensuring the good ecological status of the aquatic environment and the quality of water sources intended for human consumption.

Treated continental waters: Waters that have undergone specific processes for particular purposes, including use in swimming pools, cooling towers, evaporative condensers, or industrial and pharmaceutical applications. These uses are under specific technical-sanitary regulations that ensure safety and efficacy based on the intended application.

Continental Water: Microbiology



Reference: 990022

Round I	Week 9 22 February 2027	<i>Escherichia coli</i> / Faecal coliforms / Intestinal enterococci / <i>Pseudomonas aeruginosa</i> / <i>Salmonella</i> spp. / <i>Staphylococcus aureus</i> / Total coliforms
Round II	Week 41 4 October 2027	<i>Escherichia coli</i> / Faecal coliforms / Intestinal enterococci / <i>Pseudomonas aeruginosa</i> / <i>Salmonella</i> spp. / <i>Staphylococcus aureus</i> / Total coliforms

Untreated Continental Water: Physical-chemical

NEW

Reference: 993000

Round I	Week 45 2 November 2027	Alkalinity / Ammonium / Arsenic / Cadmium / Carbonates / Conductivity at 20°C / Magnesium / Mercury / Orthophosphates / pH / Sodium / Sulphates / Total nitrogen
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Round not included in the scope of accreditation

Treated Continental Water: Swimming pool

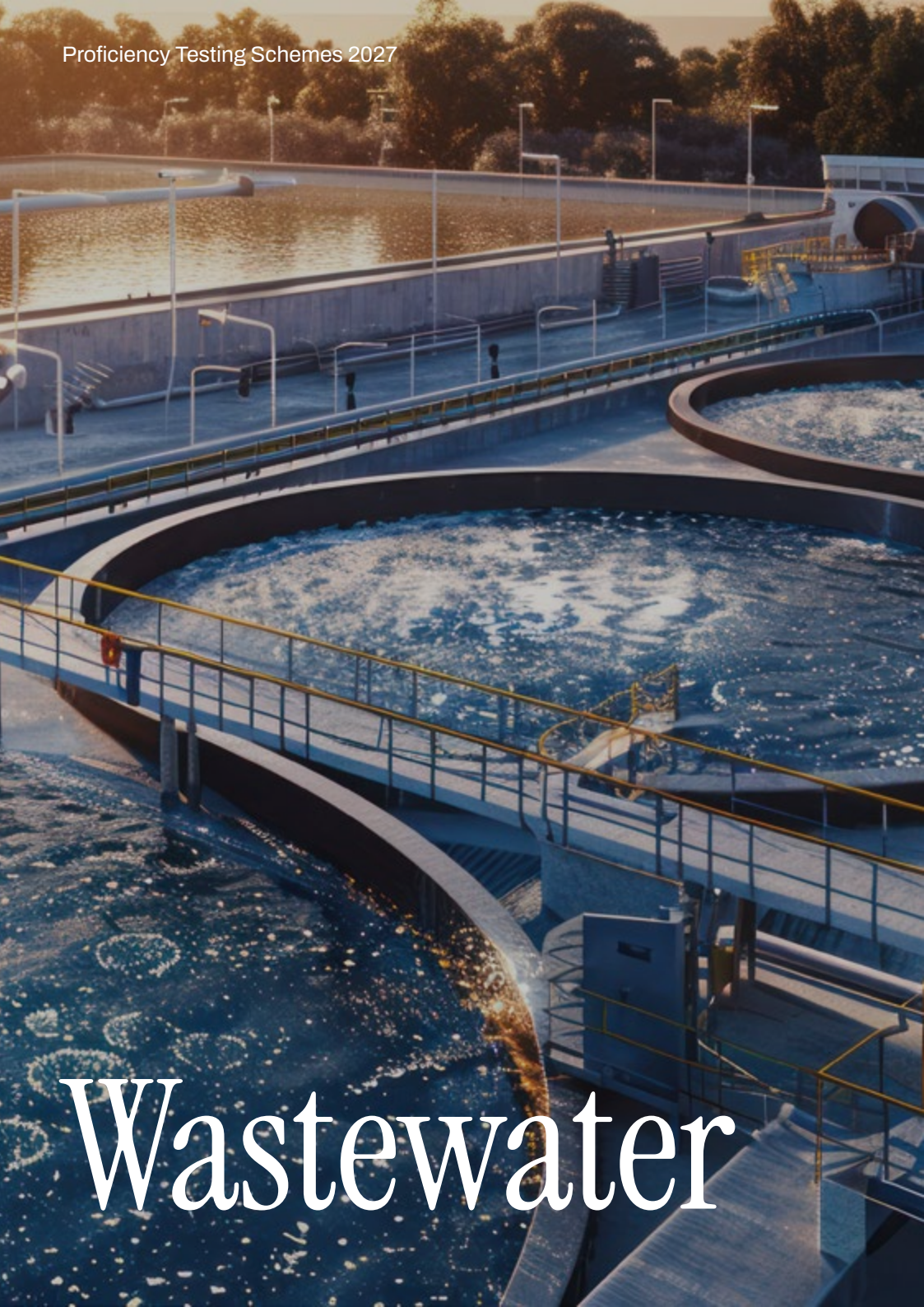


Reference: 990038

Round I	Week 23 31 May 2027	Combined chlorine* / <i>Escherichia coli</i> / Faecal coliforms / Faecal estreptococci / Free residual chlorine* / pH* / <i>Pseudomonas aeruginosa</i> / <i>Staphylococcus aureus</i> / Total coliforms / Turbidity*
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*Parameters marked with an asterisk are not covered by ENAC accreditation





Wastewater

Schemes

Wastewater: Physical-chemical

Wastewater: Microbiology

Reclaimed Water

Antimicrobial Resistance **NEW**

Directive (EU) 2024/3019 updates the European regulatory framework for urban wastewater treatment, replacing Directive 91/271/EEC with the aim of strengthening environmental and public health protection. The new regulations expand treatment requirements and adapt the sanitation sector to challenges such as emerging pollutants, climate change, and health monitoring.

Main change is the need of implementation of quaternary treatment at wastewater treatment plants to remove micropollutants, such as pharmaceutical residues, cosmetics, and other persistent substances, that are not eliminated by conventional treatment methods. It also incorporates the Extended Producer Responsibility (EPR) principle, requiring manufacturers of certain products, particularly pharmaceuticals and cosmetics, to contribute to the cost of removing these pollutants.

The Directive also strengthens wastewater-based epidemiological surveillance, requiring Member States to monitor relevant health parameters such as viruses (including SARS-CoV-2), emerging pathogens, antimicrobial resistance, and chemical pollutants of high concern, including per- and polyfluoroalkyl substances (PFAS). These measures reinforce the role of wastewater as a key tool for environmental protection and public health.



Wastewater: Physical-chemical



Reference: 990004

Round I	Week 6 1 February 2027	Aluminium / Ammonium / Biological oxygen demand (BO ₅ D) / Chemical oxygen demand (COD) / Chlorides / Chromium / Copper / Fluorides / Nickel / Nitrates / Selenium / Suspended solids / Toxicity
Round II	Week 21 17 May 2027	Anionic surfactants / Antimony / Biological oxygen demand (BO ₅ D) / Cadmium / Chemical oxygen demand (COD) / Chromium VI / Cobalt / Manganese / Orthophosphates / Suspended solids / Total organic carbon (TOC) / Total phosphorus / Zinc
Round III	Week 41 4 October 2027	Arsenic / Biological oxygen demand (BO ₅ D) / Boron / Chemical oxygen demand (COD) / Conductivity at 20°C / Conductivity at 25°C / Iron / Kjeldahl nitrogen / Lead / pH / Suspended solids / Thallium / Tin / Total nitrogen

Metals will be determined as 'total metals'

Antimicrobial Resistance NEW

Reference: 993044

Round I	Week 42 13 October 2027	<i>Escherichia coli</i> and other pathogens of the ESKAPE group
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Round not included in the scope of accreditation

Wastewater: Microbiology



Reference: 990014

Round I	Week 8 15 February 2027	<i>Clostridium perfringens</i> / <i>Escherichia coli</i> / Faecal coliforms / Intestinal enterococci / <i>Salmonella</i> spp. / Total coliforms
Round II	Week 25 14 June 2027	<i>Clostridium perfringens</i> / <i>Escherichia coli</i> / Faecal coliforms / Intestinal enterococci / <i>Salmonella</i> spp. / Total coliforms

Reclaimed Water



Reference: 990005

Round I	Week 11 8 March 2027	Boron / <i>Escherichia coli</i> / Intestinal nematodes / <i>Legionella pneumophila</i> / <i>Legionella</i> spp. / Suspended solids / Total phosphorus / Turbidity
Round II	Week 44 25 October 2027	Cadmium / <i>Escherichia coli</i> / Intestinal nematodes / <i>Legionella pneumophila</i> / <i>Legionella</i> spp. / Nitrates / SAR (Sodium Adsorption Ratio) / Total nitrogen

Metals will be determined as 'total metals'

Sea Water

The current European legislation governing bathing water quality is Directive 2006/7/EC. It is complemented by the Water Framework Directive (2000/60/EC) and the Marine Strategy Framework Directive (2008/56/EC).

The primary objective of Directive 2006/7/EC is to protect human health and preserve environmental quality. To achieve this objective, it establishes rules for the monitoring, classification (poor, sufficient, good, or excellent), and management of bathing waters, while also ensuring transparent public information. To guarantee this high level of health and environmental protection, the European regulations stipulate the following operational approaches:

Microbiological assessment: Strict monitoring of parameters indicating fecal contamination, such as *Escherichia coli* and intestinal enterococci.

Proactive management: Requires Member States to create bathing water profiles that identify sources of pollution and potential risks.

Public participation: Encourages making information on water quality, bans, or recommendations available to bathers in a simple and understandable manner.

Sea Water 

Reference: 990000

Round I	Week 24 7 June 2027	Ammonium / Arsenic / Cadmium / <i>Escherichia coli</i> / Intestinal enterococci / Orthophosphates / pH / Salinity / Total coliforms / Turbidity
Round II	Week 37 6 September 2027	Conductivity at 20°C / <i>Escherichia coli</i> / Intestinal enterococci / Mercury / Nickel / Nitrates / pH / Lead / Total coliforms / Turbidity

Metals will be determined as 'total metals'

Atmospheric Pollution

The European regulation for air quality is Directive (EU) 2024/2881, which aims to reduce air pollution and protect both human health and the environment. To this end, it establishes limits for ambient air concentrations (UNE-EN 12341 and UNE-EN 14902), specifically, the levels of pollutants in the air we breathe, such as PM₁₀ and PM_{2.5} particles, nitrogen dioxide (NO₂), and ozone (O₃), while progressively aligning these values with World Health Organization (WHO) recommendations.

Achieving these objectives also requires reducing pollutant emissions (UNE-EN 13284-1 and UNE-EN 14385) generated by activities such as industry, transport, and energy production. In this context, the implementation of measures and technologies is encouraged to decrease the quantity of pollutants released into the atmosphere before they reach the ambient air.

Main capture solutions include filters for retaining particles, gas scrubbing systems to remove specific pollutants, and purification equipment that reduces emissions from industrial processes.

All these technologies contribute to improve air quality and ensure compliance with the limits established by European regulations.

Stack Emissions: Physical-chemical



Reference: 990008

Round I	Week 9 22 February 2027	Filter: Arsenic / Cobalt / Manganese / Nickel / Vanadium Immission filters: Arsenic / Cadmium / Lead / Nickel Impinger solution: Antimony / Arsenic / Cadmium / Copper / Hydrofluoric acid (HF)
Round II	Week 17 19 April 2027	Filter: Antimony / Cadmium / Chromium / Mercury / Tin Impinger solution: Chromium / Formaldehyde* / Hydrochloric acid (HCl) / Lead / Manganese / Vanadium
Round III	Week 40 27 September 2027	Filter: Copper / Lead / Selenium / Thallium / Zinc Immission filters: Arsenic / Cadmium / Lead / Nickel Impinger solution: Cobalt / Nickel / Sulphur dioxide (SO ₂) / Thallium / Zinc

*Parameter marked with an asterisk is not covered by ENAC accreditation

Solids

Schemes

Soils: Physical-chemical
Sludges: Physical-chemical
Sludges: Microbiology
Solids in Wastewater

The management of soils and sludges is governed by Law 7/2022 on waste and contaminated soils and by European directives regarding soil protection and sludge management (such as Directive 86/278/EEC concerning agricultural use). The objective is to safeguard soil health, prevent contamination, and promote the circular economy through the safe recovery of resources.

To ensure technical reliability and data traceability in the laboratory, the following standardized UNE-EN methods are applied, for example:

UNE-EN 14899: Establishes the framework for a sampling plan that ensures the representativeness of the matrix.

UNE-EN 15934: Method for determining the dry matter fraction (water content).

UNE-EN 15935: Determination of loss on ignition, essential for quantifying organic matter.

This framework ensures comprehensive control—from precise laboratory characterization to final management—in compliance with European environmental safety standards.

Soils: Physical-chemical



Reference: 990017

Round I	Week 42 11 October 2027	Arsenic / Cadmium / Calcium / Chromium / Conductivity at 20°C / Copper / Iron / Lead / Magnesium / Manganese / Mercury / Nickel / pH / Potassium / Sodium / Total phosphorus / Zinc
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Metals will be determined as 'total metals'

Sludges: Physical-chemical



Reference: 990013

Round I	Week 15 5 April 2027	Arsenic / Cadmium / Chromium / Copper / Iron / Kjeldahl nitrogen / Lead / Manganese / Mercury / Nickel / pH / Zinc
Round II	Week 37 6 September 2027	Aluminium / Cadmium / Chromium / Conductivity at 20°C / Copper / Lead / Mercury / Nickel / Total organic matter / Total phosphorus / Zinc

Metals will be determined as 'total metals'

Sludges: Microbiology



Reference: 990027

Round I	Week 17 19 April 2027	<i>Clostridium perfringens</i> / <i>Escherichia coli</i> / Faecal coliforms / Intestinal enterococci / <i>Salmonella</i> spp. / Total coliforms
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Solids in Wastewater



Reference: 990016

Round I	Week 7 8 February 2027	Dissolved solids at 105°C* / Fixed suspended solids* / Fixed total solids* / Settleable solids* / Suspended solids / Total solids at 105°C* / Volatile suspended solids* / Volatile total solids*
Round II	Week 18 26 April 2027	Dissolved solids at 105°C* / Fixed suspended solids* / Fixed total solids* / Settleable solids* / Suspended solids / Total solids at 105°C* / Volatile suspended solids* / Volatile total solids*

*Parameters marked with an asterisk are not covered by ENAC accreditation



Legionella

Schemes

Legionella: Culture

Legionella: PCR

Legionella: Biofilm

The prevention and control of legionellosis in Spain are currently regulated by Royal Decree 487/2022 of June 21. This regulation establishes a risk-assessment-based approach, requiring facility operators to implement either a *Legionella* Prevention and Control Plan (PPCL) or a Water Safety Plan (WSP).

Technical compliance and preventive effectiveness are based on the following standards:

UNE 100030:2017 Standard: This is the main reference standard for preventing and controlling the proliferation and spread of *Legionella* in facilities. It defines technical guidelines for the design, maintenance, and safe operation of high-risk systems (cooling towers, domestic water systems, etc.).

UNE-EN ISO 11731: An international technical reference standard for the detection and enumeration of *Legionella* via culture methods. It is the mandatory analytical method for ensuring the reliability and traceability of laboratory results, guaranteeing accurate detection whenever contamination is suspected.

Management is structured around identifying critical points and implementing preventive measures, ensuring that facility maintenance and analytical monitoring are carried out in accordance with the strictest health safety criteria.

Legionella: Culture



Reference: 990020

Round I	Week 7 8 February 2027	2 samples (A and B): Sample A: <i>Legionella pneumophila</i> / <i>Legionella</i> spp. Sample B: Culturable microorganisms at 22°C NEW / Culturable microorganisms at 36°C NEW / <i>Legionella pneumophila</i> / <i>Legionella</i> spp.
Round II	Week 19 3 May 2027	2 samples (A and B): Sample A: <i>Legionella pneumophila</i> / <i>Legionella</i> spp. Sample B: Culturable microorganisms at 22°C / Culturable microorganisms at 36°C / <i>Legionella pneumophila</i> / <i>Legionella</i> spp.
Round III	Week 39 20 September 2027	2 samples (A and B): Sample A: <i>Legionella pneumophila</i> / <i>Legionella</i> spp. Sample B: Culturable microorganisms at 22°C NEW / Culturable microorganisms at 36°C NEW / <i>Legionella pneumophila</i> / <i>Legionella</i> spp.

Samples B will include natural matrix

Legionella: PCR



Reference: 990012

Round I	Week 7 8 February 2027	3 samples (A, B and C): <i>Legionella pneumophila</i> / <i>Legionella</i> spp. Evaluation: Concentration, extraction/purification and amplification of DNA
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Legionella: Biofilm

Reference: 993001

Round I	Week 12 15 March 2027	3 samples (A, B and C): <i>Legionella pneumophila</i> / <i>Legionella</i> spp. Evaluation: Detection and identification
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Round not included in the scope of accreditation





Bacteriophages

The determination of bacteriophages, specifically somatic coliphages, has become increasingly important in drinking water quality control, as they serve as more reliable indicators of viral fecal contamination than traditional bacterial indicators such as *Escherichia coli* or enterococci. Due to their behavior and resilience in the aquatic environment, bacteriophages exhibit persistence similar to other human enteric viruses, making them a valuable tool for assessing the efficacy of water treatment processes and detecting potential microbiological risks.

This significance is reflected in Real Decreto 3/2023, which transposes Directive (EU) 2020/2184 on the quality of water intended for human consumption. The regulation incorporates somatic coliphages as a control parameter within a risk assessment and management framework, thereby strengthening microbiological surveillance and complementing classic bacterial indicators.

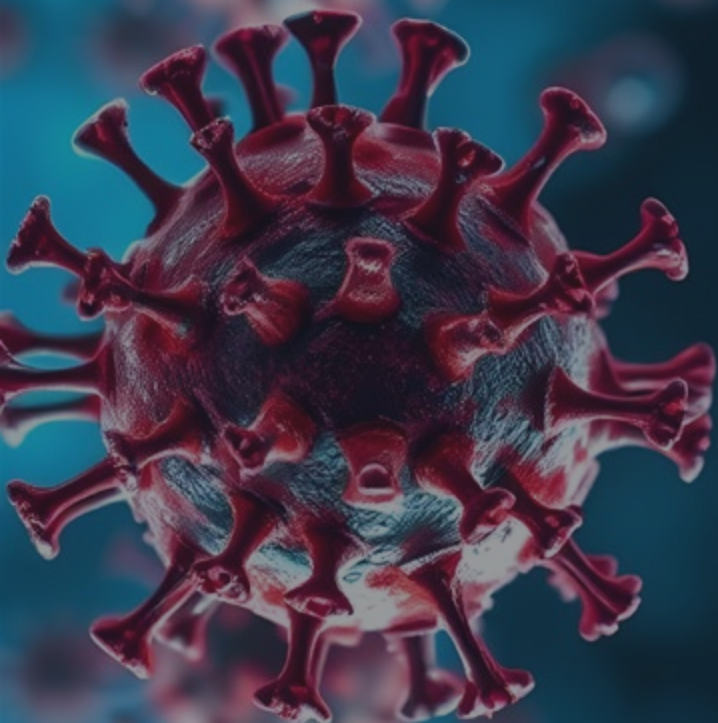
To ensure the reliability and comparability of results, bacteriophage determination is carried out using standardized methods from the UNE-EN ISO 10705 series.

Bacteriophages



Reference: 992512

Round I	Week 10 1 March 2027	F-specific bacteriophages / Somatic bacteriophages Evaluation: Concentration, elution and culture Matrix: Drinking water - Outlet water
Round II	Week 26 21 June 2027	2 samples (A and B): F-specific bacteriophages / Somatic bacteriophages Evaluation: Sample A: Concentration, elution and culture Sample B: Culture Matrix: Wastewater and reclaimed water
Round III	Week 40 27 September 2027	F-specific bacteriophages / Somatic bacteriophages Evaluation: Concentration, elution and culture Matrix: Drinking water - Inlet water



Viruses in Wastewater

Wastewater-based virus surveillance has established a key preventive epidemiological tool for the early detection of pathogens, complementing traditional clinical surveillance.

Scope: It enables the monitoring of viruses such as SARS-CoV-2 and influenza, thereby enhancing outbreak response capabilities.

Regulation: European regulations (Directive 2024/3019) and national laws designate wastewater treatment plants as strategic surveillance points. In Spain, this is implemented through the VIGIA System, which update collection and treatment systems to meet new European requirements.

Methodology: Standardized molecular techniques (RT-qPCR, ddPCR) are used to quantify viral material and track its evolution.

To ensure the reliability and comparability of results, analyses are conducted using standardized protocols and in accordance with recommendations from international bodies such as the World Health Organization (WHO). Overall, wastewater-based epidemiological surveillance serves as a preventive tool that integrates environmental and health data, facilitating the early detection of infectious diseases and strengthening public health protection.

Viruses in Wastewater

Reference: 992764

Round I	Week 21 17 May 2027	3 Samples (A, B and C): SARS-CoV-2 / Influenza virus* NEW Evaluation: · Extraction and amplification · Concentration, extraction and amplification
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*Parameter marked with an asterisk is not covered by ENAC accreditation



Cosmetics

The safety and quality of cosmetic products in the European Union are primarily governed by Regulation (EC) No 1223/2009, which establishes requirements regarding safety, labeling, notification, and liability to ensure the protection of human health. This framework mandates that all products placed on the market includes a Cosmetic Product Safety Report, prepared by a qualified assessor, and a Product Information File (PIF) accessible to the authorities.

To ensure compliance with these safety standards, the industry implements technical protocols based on harmonized international standards:

UNE-EN ISO 22716: This is the international benchmark standard for Good Manufacturing Practices (GMP). It defines the organizational and technical requirements necessary to guarantee quality, hygiene, and full traceability throughout all stages of production, storage, and distribution.

Microbiological Control (ISO Series): Given the susceptibility of cosmetic formulations to microbial proliferation, validating their safety through reference methods is mandatory. This includes UNE-EN ISO 21149 (for the enumeration of aerobic mesophilic bacteria) and specific standards for detecting critical pathogens: ISO 21150 (*E. coli*), ISO 22717 (*P. aeruginosa*), and ISO 22718 (*S. aureus*).

This framework ensures that quality control assures the legal compliance, establishing a robust preventive system that protects consumers against physical, chemical, or microbiological risks throughout the product's entire shelf life.

Cosmetics

Reference: 992764

Round I	Week 18 26 April 2027	Quantitative parameters: Culturable microorganisms at 22°C / Culturable microorganisms at 35°C / Molds and yeasts Qualitative parameters: <i>Burkholderia cepacea</i> complex (Bcc) / <i>Candida albicans</i> / Coagulase positive staphylococci / <i>Escherichia coli</i> / Other coliforms different to <i>E. coli</i> / <i>Pseudomonas aeruginosa</i>
Round II	Week 43 18 October 2027	Quantitative parameters: Culturable microorganisms at 22°C / Culturable microorganisms at 35°C / Molds and yeasts Qualitative parameters: <i>Burkholderia cepacea</i> complex (Bcc) / <i>Candida albicans</i> / Coagulase positive staphylococci / <i>Escherichia coli</i> / Other coliforms different to <i>E. coli</i> / <i>Pseudomonas aeruginosa</i>

Rounds not included in the scope of accreditation
Samples will include real matrices



in situ Analysis and Sampling

Schemes

in situ Analysis and Sampling: Physical-chemical
Indoor Air Quality

The reliability of any environmental assessment depends on rigorous technical execution from the very beginning. Proper handling of samples and evaluation of indoor environments are essential to ensure traceability and the validity of the final results.

1. *in situ* Analysis and Sampling

This process is the base of the analytical chain and follows the criteria of the UNE-EN ISO 5667 series and the internal Standard Operating Procedures (SOPs). The operational steps are:

Representativeness and Chain of Custody: It's crucial to ensure that the sample is a true replica of real conditions and to guarantee traceability from the source.

in situ Determinations: parameters such as pH, conductivity, temperature, residual chlorine, etc. must be measured immediately to avoid alteration.

Integrity and Preservation: Apply controlled conditions to ensure the sample reaches the lab without changes in its properties.

2. Indoor Air Quality (IAQ)

Health and comfort control in indoor places is mainly regulated by the Thermal Installations in Buildings Regulation (RITE). Its operation is based on the UNE 171330 and UNE 100012 Standards.

This unified operational framework ensures that both the parameters measured on-site and the samples collected, as well as IAQ assessments, meet the required quality and safety standards, eliminating sources of error and providing reliable results for technical decision-making.

in situ Analysis and Sampling: Physical-chemical



Reference: 990021 / 990023

Alicante	Week 18 29 April 2027	Continental water: Conductivity at 20°C / Dissolved oxygen / pH / Temperature / REDOX Potential* Wastewater: Conductivity at 20°C / Conductivity at 25°C / Discharge* / Dissolved oxygen / pH / Temperature / REDOX Potential* Sea water: Conductivity at 25°C / Dissolved oxygen / pH / Temperature / REDOX Potential* Sampling: Physical-chemical*
Madrid	Week 43 21 October 2027	Continental water: Conductivity at 20°C / Dissolved oxygen / pH / Temperature / REDOX Potential* Wastewater: Conductivity at 20°C / Conductivity at 25°C / Discharge* / Dissolved oxygen / pH / Temperature / REDOX Potential*

*Parameters and Activities marked with an asterisk are not covered by ENAC accreditation

Indoor Air Quality

Reference: 992827

Barcelona	Week 22 27 May 2027	Physical-chemicals: 0.5 µm particle count / 5 µm particle count / CO emission / CO ₂ emission / Suspended particles by gravimetry / Thermo-hygrometric conditions Air: Molds and yeasts / Total microorganisms at 22°C / Total microorganisms at 36°C Surfaces: Molds and yeasts / Total microorganisms at 22°C / Total microorganisms at 36°C
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Round not included in the scope of accreditation



How to register in ielab's PTS

Access

Go to the ielab website (www.ielab.es) >
CLIENT ACCESS

Registration

NEW CUSTOMERS: fill out your profile through the "New Customer Registration" section and get your credentials (username and password)

REGISTERED CUSTOMERS: access your profile in the "Already Registered Customers" section with your usual credentials

Inscription

In the "Registration" option of your profile menu, you will find a table with all the offered rounds and circuits, where you can "Add" or "Remove" your choice and complete your inscription.

Confirmation

Click on "Accept" to get an evaluation of the selected items as a "Pre-registration/Quotation."

Formalize the order by selecting "Confirm."

Payment options:

- By bank transfer once the invoice is issued
- With a credit card at the time of registration

Verification

You will receive an email with a summary of what you purchased. If not, contact us at comercial@ielab.es



Your loyalty has a reward

5% early-bird discount

Early-bird discount until December 25th, 2026. Participation in 2025 and 2026 is required

5% rounds increase discount

Increase in rounds compared to the registration carried out in 2026

10% matrix combination discount

Participation in two rounds belonging to the same matrix. Check the available combinations included in this promotion

15% discount

2 Rounds same scheme

Participation in two rounds of the same scheme

25% discount

3 Rounds same scheme

Participation in three rounds of the same scheme

Conditions of the promotions

5% early-bird discount

5% discount on the amount of all the rounds included in the order placed before December 25th, 2026. It is required to have participated in the 2025 and 2026 ielab rounds. Discount cumulative to other applicable promotions

5% rounds increase discount

5% discount on the amount of all the rounds included in the order that exceeds the number of rounds contracted in 2026. Discount cumulative to other applicable promotions

10% matrix combination discount

10% discount on the registration in rounds belonging to the same matrix according to the following options. Discount cumulative to other applicable promotions

If you register to:	And also to:
Drinking Water: Microbiology	Drinking Water: Physical-chemical A and/or Drinking Water: Physical-chemical B and/or Drinking Water: Physical-chemical C and/or Drinking Water: Physical-chemical D
Wastewater: Physical-chemical	Wastewater: Microbiology
Sludges: Physical-chemical	Sludges: Microbiology
<i>Legionella</i> : Culture	<i>Legionella</i> : PCR and/or <i>Legionella</i> Biofilm

15% discount 2 rounds same scheme

15% discount on the amount of the 2 rounds of the same scheme. This discount will be applied directly to the registration when selecting 2 rounds of the same scheme. Discount cumulative to other applicable promotions, except for the 25% discount promotion for 3 rounds of the same scheme

25% discount 3 rounds same scheme

25% discount on the amount of the 3 rounds of the same scheme. This discount will be applied directly to the registration when selecting 3 rounds of the same scheme. Discount cumulative to other applicable promotions, except for the 15% discount promotion for 2 rounds of the same scheme

Contract terms for the participation in ielab's Proficiency Testing Schemes

Registration

The easiest and safest way to register in our Proficiency Testing Schemes (PTS) is through ielab's website (www.ielab.es). By this way the confidentiality and agility on the information and data transmission is assured. Alternatively, you can also register by contacting us by email (comercial@ielab.es).

The current prices can be consulted in the specific rates document and also when you make your registration through the website. The registration fee includes sample preparation, access to the website for data submission and for downloading results reports and any other document related to the rounds such as the certificate of participation. Any additional tax or fee will be added before the confirmation of the purchase order, whenever necessary.

The participating laboratory may request the cancellation of its participation in a round of the PTS, as long as it is properly notified to the organization with enough time prior to its completion.

By another hand, in case that the calendar, planning or any of the previously agreed terms cannot be fulfilled, the participants will be informed in writing with the adopted solutions. If the number of registrations for a PTS round does not reach the minimum required to carry it out, the organization may cancel or delay this round, refunding or replacing the registration to the participants.

Frequency of participation

The frequency of participation in the PTS depends on several specific factors related to the characteristics of each laboratory, as well as other aspects of quality control. The number of samples tested, and the risk associated with the tests are very important issues to be considered. Therefore, each laboratory should establish its own frequency of participation.

Accreditation bodies often offer guidelines about frequency of participation, such as in the documents 'NT-03-Política de ENAC sobre intercomparaciones' and the guide 'Guía sobre la participación en programas de Intercomparaciones G-ENAC-14' or in EURACHEM Guide 'Selection, use and interpretation of Proficiency Testing Schemes'.

Confidentiality

To guarantee confidentiality, the participation codes of each laboratory are automatically assigned by the software at the time of registration. Each participant has a 4-digit code that can be changed and that allows them to identify their results in the round report. In this way, their identity is protected against the rest of the participants and from the organization itself.

The results and other technical information submitted by participants and related to the assays will be associated with the participation code in the results report. In the results report only this code is mentioned neither including the name or other information of the participant, nor the data included in the observations field of the results bulletin.

ielab is responsible for the management of all information obtained or created during the performance of PT activities directly or through a third party. If ielab was required by law to release confidential information, the client concerned shall be notified of the information released, unless prohibited by law.

Payment

PTS payment can be made via:

BANK TRANSFER:

Bank: Banco Bilbao Vizcaya Argentaria, S.A. (BBVA)

Address: Plaza Antoni Maura, 6, 2ª PLANTA. Barcelona. Spain

Bank Account: 01823994050201548997

Swift: BBVAESMMXXX

IBAN: ES9101823994050201548997

CREDIT CARD

For other options, please contact to our email address comercial@ielab.es.

Sample preparation and verification

ielab will prepare natural samples if possible. If any element or microorganism is not present in the natural sample, the appropriate analytes or microorganisms relevant to investigation will be added/spiked, or a synthetic sample will be prepared. This information is detailed in the round instructions and is available to customers upon request.

The corresponding homogeneity and stability studies of the samples will be performed according to IUPAC (International Union of Pure and Applied Chemistry) and to the ISO 13528 standard.

Packaging and shipping of samples

Samples will be sent to participants by express courier according to the previously established calendar, being preferably sent on Monday.

The materials used in the PTS are packaged complying with the legal requirements regarding transport and under conditions that allow preserving their content. In general, most of the samples from ielab's PTS are sent at room temperature. If any sample must be kept refrigerated after reception, it will be detailed in the round instructions document for each round.

Express courier systems are used, and the samples are accompanied by all transport documentation required by international regulations. However, in some countries, we recommend participants to obtain information in advance about the import documents or taxes that may be needed. It is recommended that the final participant be informed of possible import procedures and notify ielab any additional instruction or document required in their country regarding these procedures.

ielab declines the responsibility of the shipment status if it has been retained at the customs office of the destination country.

Handling and storage of samples

Prior to sending the samples, ielab provides detailed instructions to the participants that clearly specify how each sample should be preserved and/or handled. ielab has designed and planned its rounds so that the handling of the samples is a quick and easy process. Sometimes, it is also included a workflow diagram in the instructions to make handling easier. This information is also available on our website.

The samples are preserved to maintain their optimal analytical properties under the usual shipping conditions and transport times. Stability tests are carried out simulating shipping conditions and during the established test period. In addition, there is a transport control in the samples of the microbiology rounds consisting on sending to one of the participants a duplicate of the samples to be tested, which are returned to the organization for verification.

For the microbiological rounds, the samples can begin to be analyzed even up to a week after being sent, although it is advisable to do it as soon as they are received.

For physical-chemical parameters, the recommended analysis period is extended until the results submission deadline. Nevertheless, if any parameter must be analyzed before this period, all the complementary information necessary to perform the analysis is specified in the instructions.

Volumes and analytical methodology

The volume of sample sent by ielab is considered enough to analyze any parameter in triplicate according to the most commonly used methodologies. It may happen that your laboratory requires more sample volume. In this case, ielab can provide you with an 'extra sample' under request for an additional charge. Contact by e-mail to comercial@ielab.es to know this rate.

As a PTS provider, ielab does neither requires nor recommends any method of analysis. One of the objectives of proficiency testing is to determine the effectiveness of a laboratory in terms of tests or measurements that are usually performed, so that participants can analyze PTS samples using the method they wish. It is important that the participants report the method used and the technical specifications requested, since we often also assess the results based on the methods used.

Therefore, the participating laboratories will be able to analyse the samples according to their usual method, and for the parameters that interest them.

Deadline and how to submit the results

Deadline of each round is detailed in the instructions provided and all details are also available on our website. Usually, the deadline to submit results is 3 weeks after samples are dispatched. Please consider that after the established deadline, results cannot be recorded in the website anymore.

To report results, you must access the private client area of our website www.ielab.es with your usual username and password, and select the 'Open Proficiency Tests/ Results submission' section from the menu. The results bulletin will open automatically. In case you are participating in several rounds in progress, a drop-down will appear where you must choose the desired round. After filling the bulletin, you must press the 'Save' button and check that you receive a confirmation email at the email address that appears in the database.

Once the results are saved, they will be available if you re-enter with your username and password. You can add or modify them as many times as you wish. If you make any changes, you should 'save' again, and you will receive a confirmation email again.

The results bulletin will be available for editing until the established deadline of the round. Once this period is expired, the bulletin of results will be blocked, and no modifications can be made. Alternatively, there are other options to submit results and you can acquire this service when you register by selecting ('Paper Management Service'). By submitting the results, the participant authorizes ielab to use those results for the commercialization of reference materials.

Expression of results

The results reported should be expressed in the units indicated in the PT Schemes' round instructions for each parameter and following their guidelines. Decimal numbers must be typed according to the settings of each participant's computer, without using any symbol to separate thousands positions. In some cases, the instructions of each round indicate the maximum number of decimal places that should be used to express the results.

Each participant can analyze the parameters he/she considers. For any analysed parameter it is necessary to submit the number of replicates detailed in the round instructions, as well as any other requested information. Please follow carefully the detailed guidelines included in the instructions of each round.

Statistical study

The technical and statistical study is carried out according to the IUPAC criteria and to the ISO 13528 Standard. The results are therefore subjected to a broad and robust statistical study to obtain the assigned value.

For each parameter, its consensus value, standard deviation and uncertainty is calculated (without outliers or statistically failed results). In addition, for added analytes, the known value and the uncertainty may be indicated in the report.

Each laboratory will be evaluated by means of the z score criteria, using the values of the applicable legislation as criteria for calculating the 'Standard Deviation for Proficiency Assessment (SDPA)'. If it does not exist, it will be calculated based on international standards, or using the Horwitz function modified by Thompson.

For microbiology, the SDPA will be obtained based on historical rounds results. The SDPA value can also be fixed by ielab.

The SDPA calculation criteria for each parameter is available to customers who request it and on our website.

Reports

The reports produced by ielab include detailed information on all aspects of the round and its results.

For each round, a detailed report is prepared that includes information on the design of the round, the preparation of the samples, homogeneity and stability, tables with the results of all the participants, the methods used (identified with the method number), the complete statistical study and graphs of distribution of results, and with the results of the evaluation of the participants, among others. Additionally, a personalized report is prepared for the comparison of results. At the request of the clients, additional reports can be prepared under agreed specifications, and will have an additional charge.

The reports of results are sent to the participants by email in pdf file and within 15 working days after the closing date of the round. There is the option to request reports printed. Check the current charges for this way of report shipment ('Paper Management Service').

If the number of results for a parameter does not reach the minimum required (10 available results to perform the statistical study), this parameter will be identified as 'out of scope of ENAC Accreditation' in the results report.

In case of doubt regarding any result or your evaluation in the round report, you can contact ielab by phone or email and we will assist you in a personalized way, studying your query to give you the answer that best suits the circumstances.

ielab accredited provider

ielab is a company committed to quality and efficiency. The ISO 9001 certification of all our activities and the accreditation according to the ISO/IEC 17043 standard as a provider of PTS guarantee this commitment.

The accreditation document, as well as its scope (No. 2/PII007), can be consulted on the ielab website (www.ielab.es) and on the ENAC website (www.enac.es).

Subcontracted activities

The activities related to the analytical processes for homogeneity and stability verification of the samples are subcontracted with a laboratory accredited under ISO 17025. Therefore, the requirements of ISO 17043 for PTS providers are fulfilled. The preparation of nematode samples is also subcontracted to a Public Entity with recognized experience in this field.

Claims and appeals

ielab counts with a process addressed to facilitate the appeal of the participants against the assessment of their performance in a proficiency test, which is available to the participants. In case that a laboratory does not agree with the evaluation of its results, or with any other aspect of the services provided, it may request clarification or make a claim through the usual channels of contacting with ielab, preferably by email.

Likewise, ielab has a complaint management procedure in accordance with our quality system and which is available to our clients upon request.

Confabulation, connivance and falsification of results

ielab pays special attention to avoid situations of collusion between participants and treats confidentially both the identity of the participants and their results. ielab neither publishes the names of the laboratories nor transfers any type of information from one participant to another, in order to minimize opportunities for connivance and falsification of results.

In the case that ielab had well-founded suspicions and evidence about the connivance or falsification of results, it will eliminate the results of the participants involved in the statistical study and these results will not be evaluated with a Z-score. ielab considers that the participants themselves are responsible for avoiding this type of situations of collusion, connivance and / or falsification of results.

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